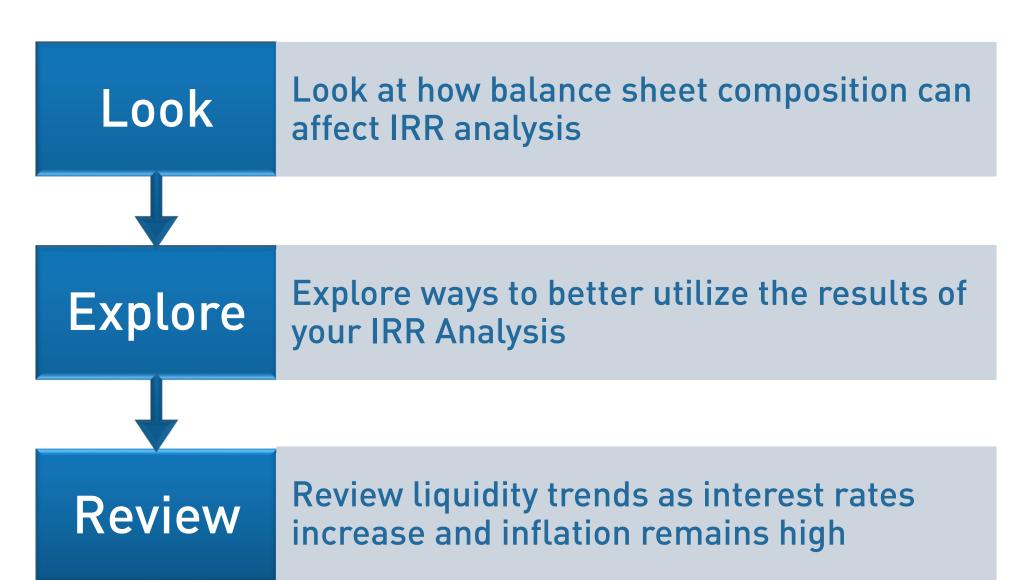


UTILIZING THE ALM ANALYSIS IN A RISING RATE ENVIRONMENT

PRESENTED BY:
CYNTHIA R. WALKER, CEO

(Webinar will begin on the hour)

LEARNING OBJECTIVE



DATA FROM NCUA CALL REPORTS



DATES: 3/31/2021 TO 12/31/2022

STATES: ALL

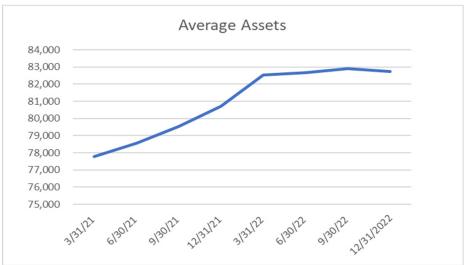
ASSET SIZE: UP TO \$500 MILLION



TOTAL ASSETS

AVERAGE ASSETS

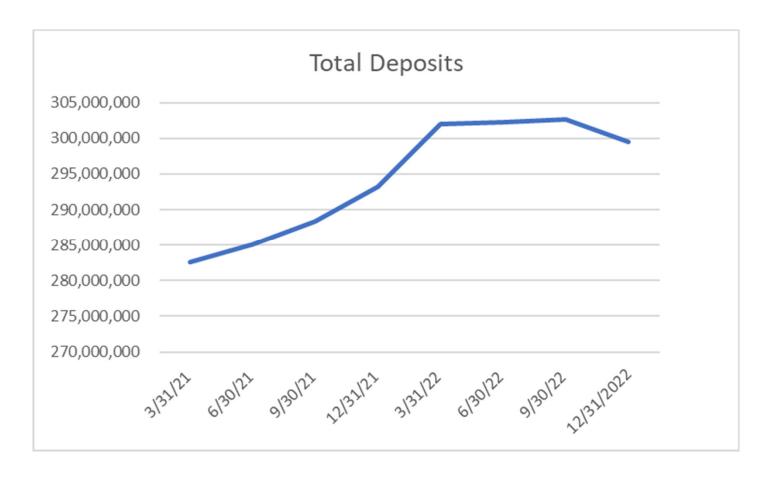




ASSET GROWTH HAS SLOWED



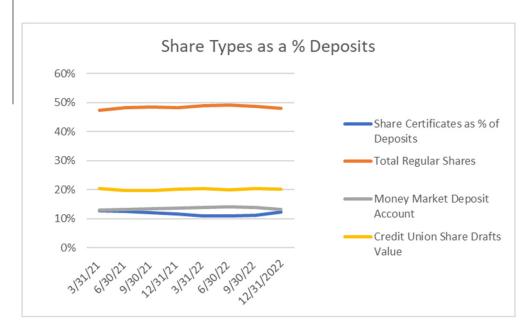
TOTAL DEPOSITS



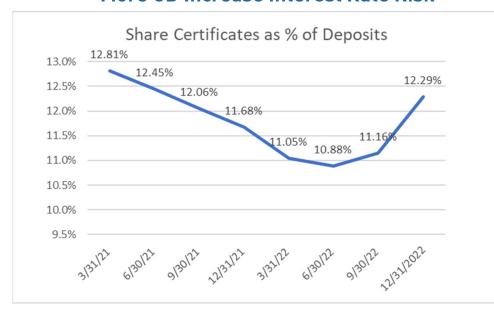
DEPOSIT GROWTH HAS REVERSED DIRECTION



TOTAL DEPOSITS



More CD Increase Interest Rate Risk

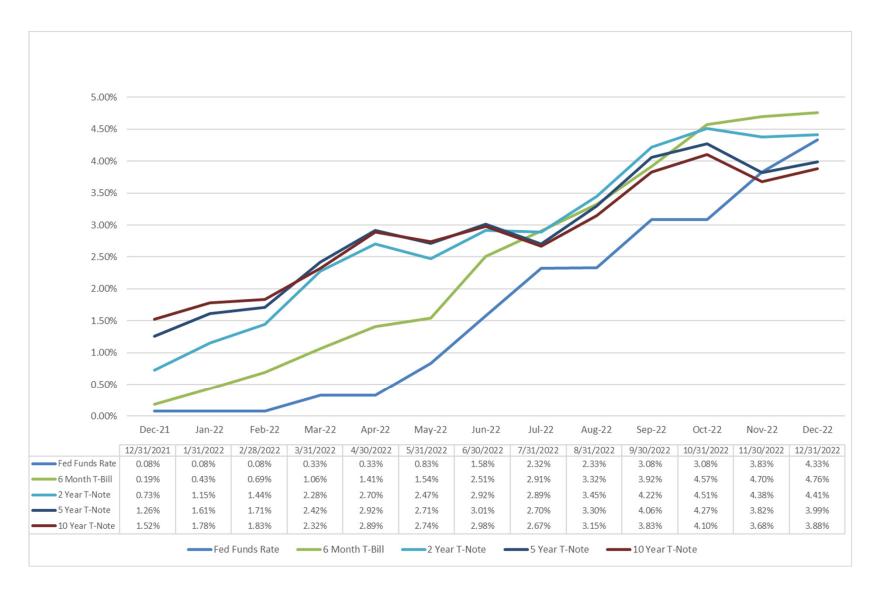


Fewer Regular Shares and Share Drafts Increase Interest Rate Risk





TREASURY RATES HISTORY





12-MONTH PERGCENTAGE CHANGE, CONSUMER PRICE INDEX

(NOT SEASONALLY ADJUSTED)





INFORMAL CONCLUSION FROM TALKING WITH CLIENTS

Deposits leaving to chase higher CD rates – small %

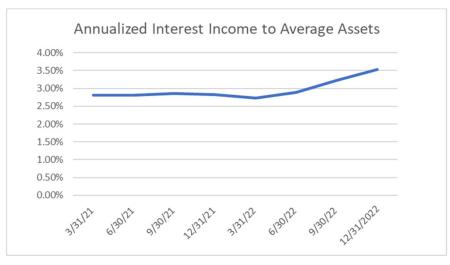
Deposits leaving due to inflation and higher cost of living

Deposit outflows due to pent up response to covid restrictions such as travel

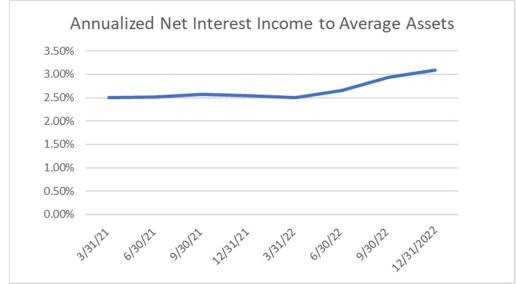
Supply constraints are lifting, and postponed purchases are occurring



NET INTEREST INCOME (ANNUALIZED)

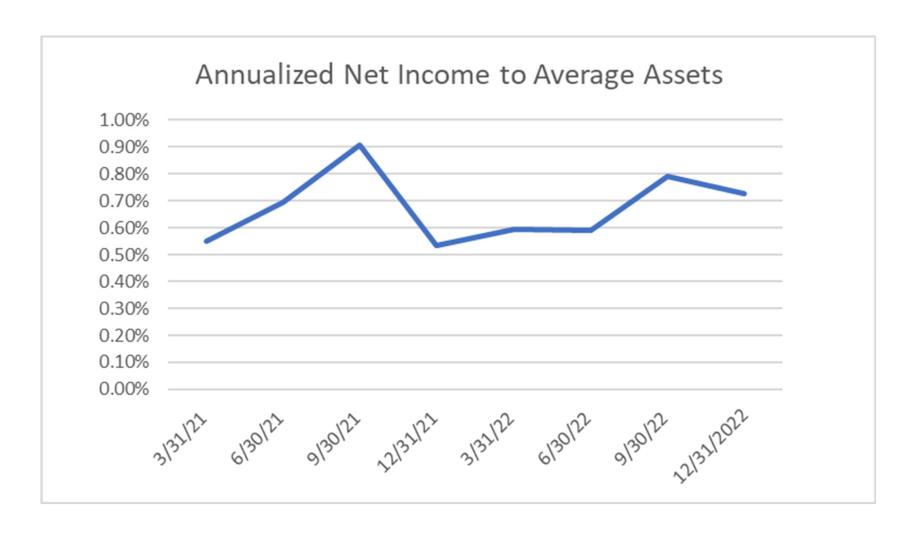






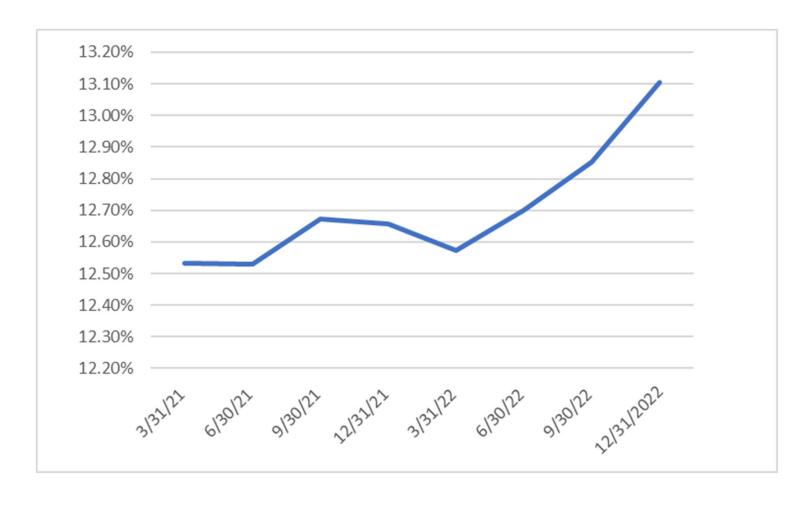


RETURN ON AVERAGE ASSETS





NET WORTH RATIO MORE NET WORTH = MORE RESILIENCE



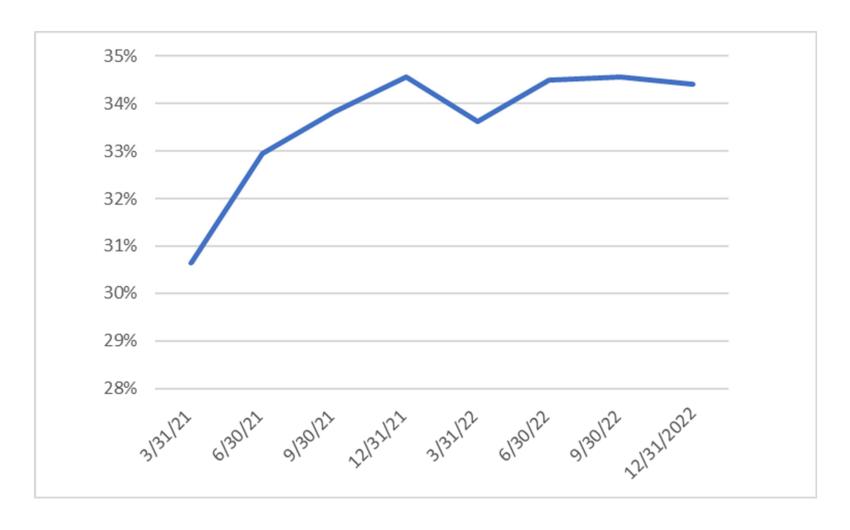


POLL QUESTION #1



NET LONG-TERM ASSETS TO TOTAL ASSETS

MORE LONG-TERM ASSETS = MORE INTEREST RATE RISK





AVERAGE LOANS TO TOTAL ASSETS

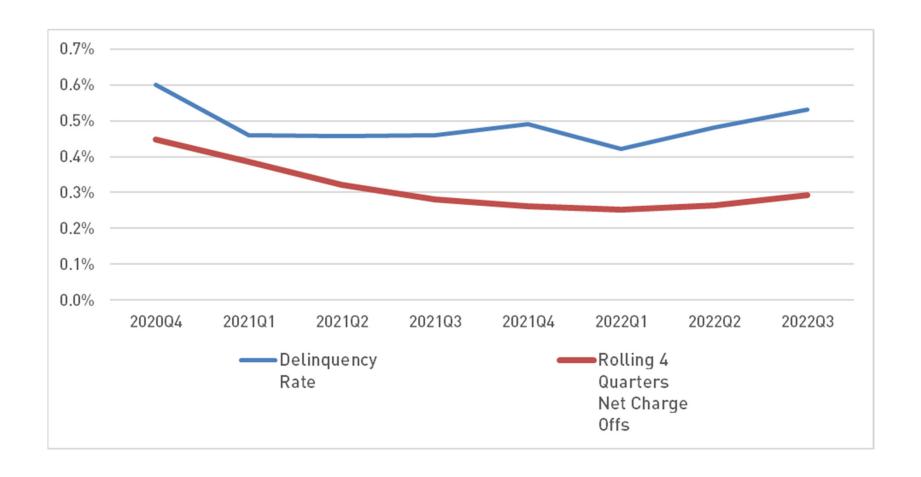
LOAN GROWTH ALSO IMPACTING LIQUIDITY



- PRICE NEW LOANS CORRECTLY
- CONSIDER EQUIVALENT TERM INVESTMENT YIELDS
- BUILD IN COST OF FUNDS NOW AND MOVING FORWARD
- ADD CREDIT RISK
- ADD SERVICING COSTS



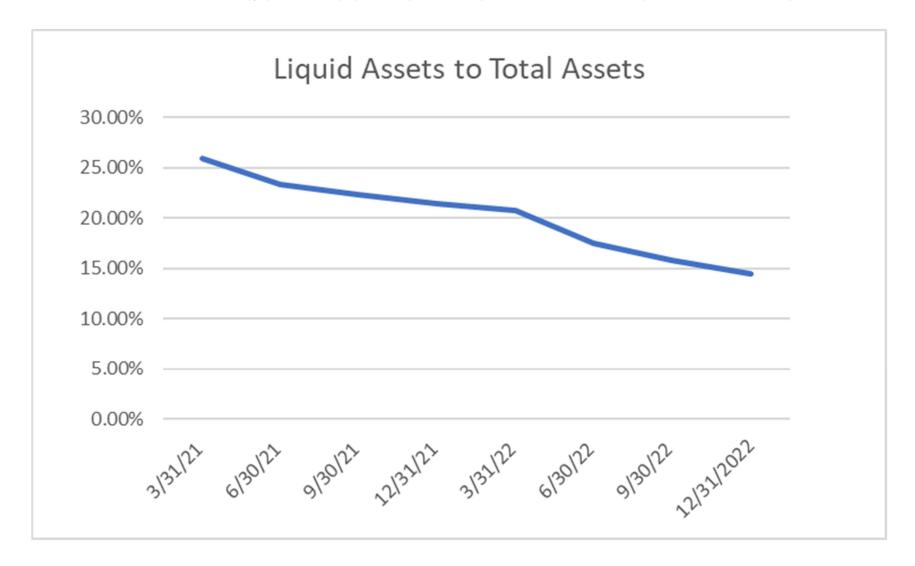
DELINQUENCY



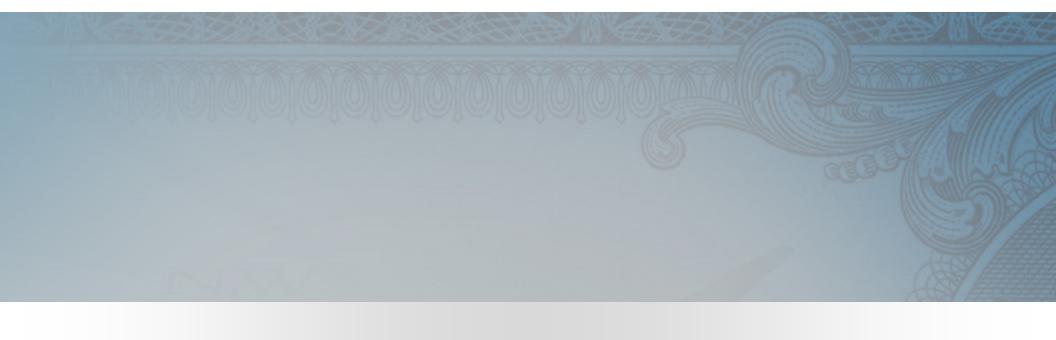


LIQUID ASSETS TO TOTAL ASSETS

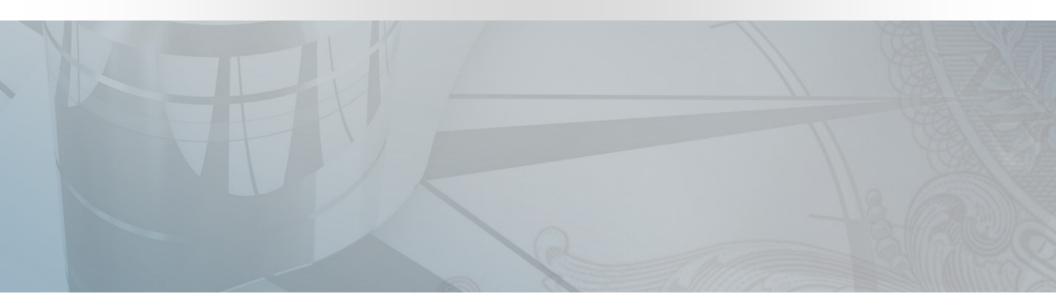
FEWER LIQUID ASSETS = MORE INTEREST RATE RISK



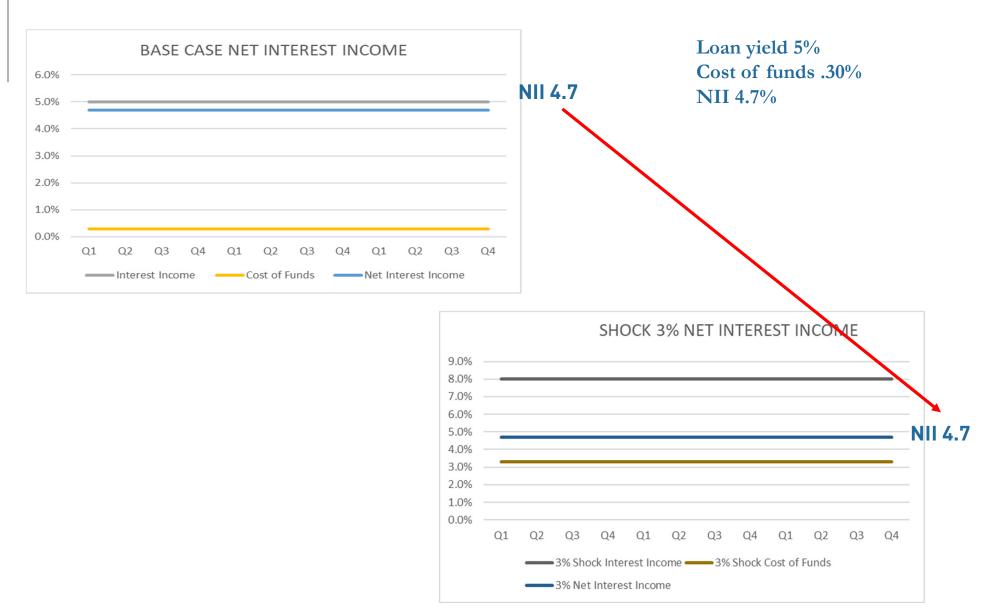




QUICK INCOME SIMULATION EXAMPLE

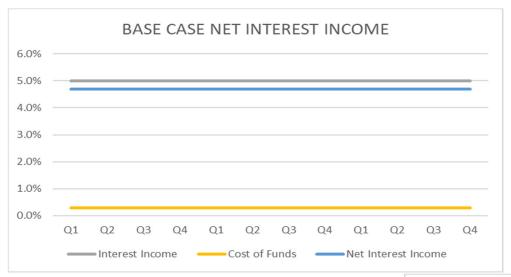


EXAMPLE 3% INSTANTENOUS AND PARALLEL UP SHOCK EVERYTHING REPRICES IMMEDIATELY





EXAMPLE 3% INSTANTENOUS AND PARALLEL UP SHOCK 36 MONTH REPRICING OF ASSETS

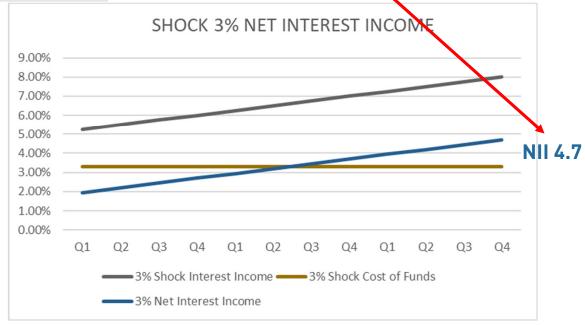


Loan yield 5% Cost of funds .30% NII 4.7%

NII 4.7

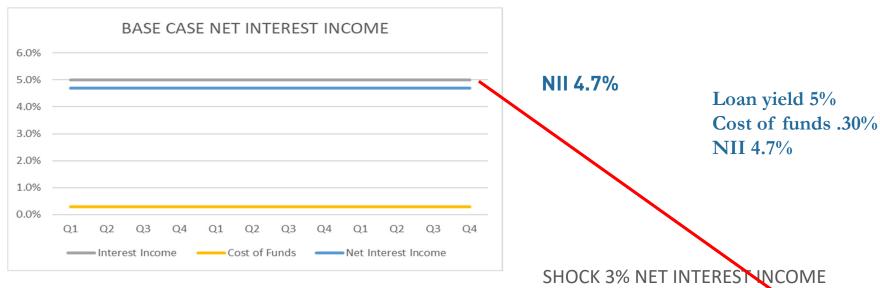
LOAN YIELDS AND INVESMENT YIELDS TAKE 36 MONTHS TO REPRICE

COST OF FUNDS GO UP IMMEDIATELY





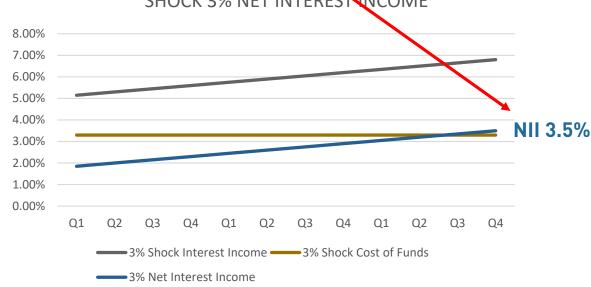
EXAMPLE 3% INSTANTENOUS AND PARALLEL UP SHOCK 60 MONTH REPRICING OF ASSETS



LOAN YIELDS AND INVESMENT YIELDS TAKE 60 MONTHS TO REPRICE

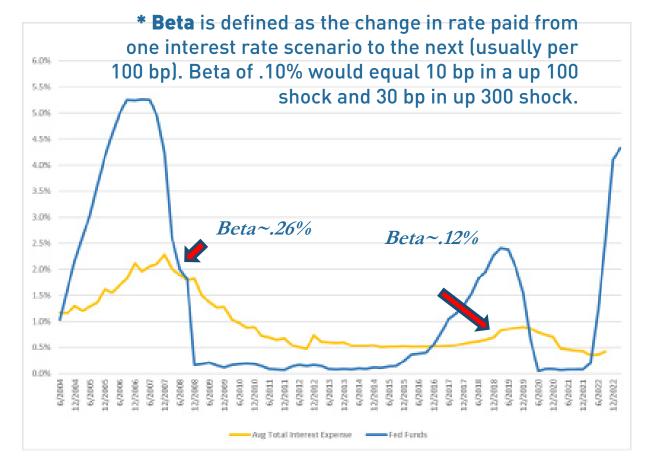
COST OF FUNDS GO UP IMMEDIATELY

NII OF 4.7% NOT REALIZED





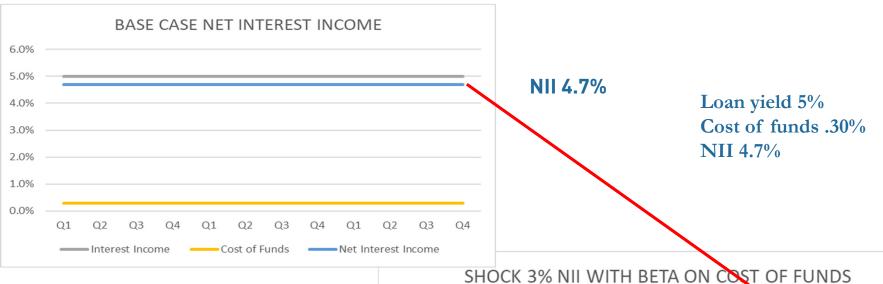
TREASURY RATES TO COST OF FUNDS





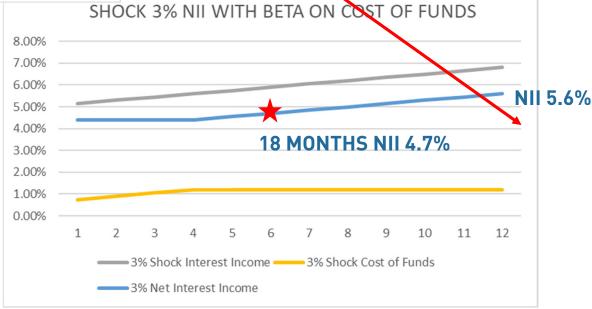


EXAMPLE 3% INSTANTENOUS AND PARALLEL UP SHOCK60 MONTH REPRICING OF ASSETS AND <u>COST OF FUNDS BETA</u>



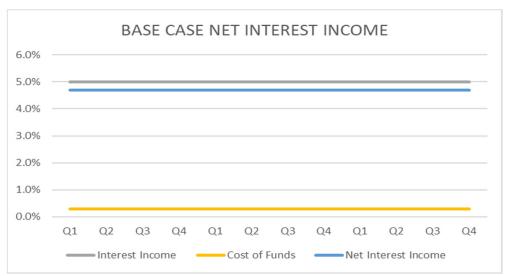
LOAN YIELDS AND INVESMENT YIELDS TAKE 60 MONTHS TO REPRICE

COST OF FUNDS WITH BETA OF .30% (3 X.30+CURRENT COF) MOVES UP TO 1.20%





EXAMPLE -2% INSTANTENOUS AND PARALLEL DOWN SHOCK18 MONTH REPRICING OF ASSETS



NII 4.7

Loan yield 5%

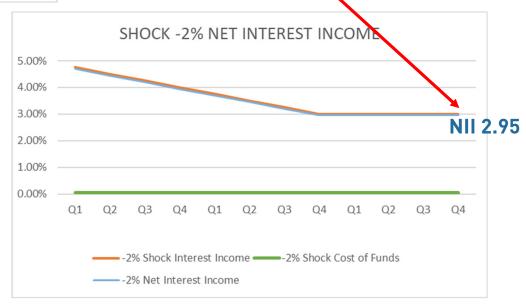
Cost of funds .30%

NII 4.7%

LOAN YIELDS AND INVESMENT YIELDS TAKE 24 MONTHS TO REPRICE

LOAN FLOOR RATES WOULD PRESERVE SOME NII DECLINE

COST OF FUNDS GO DOWN IMMEDIATELY BUT LIMITED TO .05%





SAMPLE CREDIT UNION IRR INCOME SIMULATION

Why do the down rate shock scenarios look bad and exceed policy limits?

- 1. Consider floor rates on loans. Are they established and reasonable.
- 2. Consider repricing terms on loans and investments.
- 3. Consider current cost of funds. Average cost of funds less than .50%.
- 4. When down shock exceeds cost of funds the net interest margin is compressed more than likely realistic.



POLL QUESTION #2



BIG PICTURE - SAMPLE CREDIT UNION NET WORTH AND EARNINGS

PANEL 4

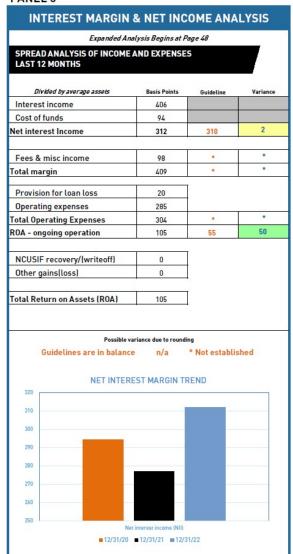
N	ET WORTH							
Expanded Analysis Begins at Page 45								
Beg. Net Worth Ratio	December 31, 2021	9.4%						
12 Month Change in Net Wort	h Ratio	-0.2%						
Ending Net Worth Ratio	December 31, 2022	9.2%						
Guideline		7.0%						
	RTH TO TOTAL ASSETS RATI	0 *						
	RTH TO TOTAL ASSETS RATI	0 *						
10.6% 10.4% 10.2% 10.0%								
9.8% 9.6% 9.4% 9.2% 9.2%								
8.8% 8.6% 8.4%	Maril Maril cepil necil Maril Maril	Sep Decil						
Do 400 11. 80, Do.	40. 10. 80, 00 40, 10,	es., O.						

12/19 TO 12/20 GROWTH 18.5%

12/20 TO 12/21 GROWTH 15.6%

12/21 TO 12/22 GROWTH 14.0%





FEE INCOME ESSENTIAL

ROA 105

NII 12/20 294

NII 12/21 277

NII 12/22 312



BIG PICTURE - SAMPLE CREDIT UNION DEPOSITS

Liability & Share Classification	Balance in Thousands	% to Total Assets	Current Yield	Shock -200		Bench	ımark	Shock Up 300 BP		
				Beta	Lag	Beta	Lag	Beta	Lag	
Notes payable	0	0.0%	0.00%	0.00%	1	0.00%	1	0.00%	1	
Liabilities and OCI	(63)	-0.1%								
Shares \$0 to \$25,000	11,544	9.8%	0.10%	0.26%	1	0.26%	1	0.26%	1	
Shares over \$25,000	24,142	20.5%	0.10%	0.26%	1	0.26%	1	0.26%	1	
Share drafts	12,535	10.7%	0.10%	0.08%	1	0.08%	1	0.08%	1	
IRA shares	1,923	1.6%	0.10%	0.42%	1	0.42%	1	0.42%	1	
Member certificates	48,867	41.6%	3.15%	1.00%	1	1.00%	1	1.00%	1	
Money markets \$1,000 to \$5,000	64	0.1%	0.10%	0.29%	1	0.29%	1	0.29%	1	
Money markets \$5,000 to \$50,000	1,193	1.0%	0.30%	0.50%	1	0.50%	1	0.50%	1	
Money markets \$50,000 to \$100,000	915	0.8%	0.70%	0.53%	1	0.53%	1	0.53%	1	
Money markets \$100,000 to \$250,000	1,825	1.6%	0.90%	0.59%	1	0.59%	1	0.59%	1	
Money markets \$250,000 and over	790	0.7%	1.00%	0.59%	1	0.59%	1	0.59%	1	
Reward checking	3,029	2.6%	1.08%	0.50%	1	0.50%	1	0.50%	1	
	0	0.0%	0.00%	0.00%	0	0.00%	0	0.00%	0	
	0	0.0%	0.00%	0.00%	0	0.00%	0	0.00%	0	
Total Shares & Deposits	106,827	90.8%	1.55%	* Pota is	defined	as the cha	ngo in ra	to paid fr	o.po	
Owner's Equity (Capital)	10,831	9.2%		* Beta is defined as the change in rate paid from one interest rate scenario to the next (usually per						

Larger percentage in member CD's

Total Liabilities & Capital



one interest rate scenario to the next (usually per

shock and 30 bp in up 300 shock.

100 bp). Beta of .10% would equal 10 bp in a up 100

100.0%

117,595

BIG PICTURE - SAMPLE CREDIT UNION LOANS

Maturity Term In Months

1	Maturity Term in Months							
	Balance in Thousands	% of Total Assets	Current Yield	Market Yield for NEV*	Shock Down -200 BP	Bench mark	Shock Up 300 BP	Repricing Criteria
1st mtg fixed	8,820	7.5%	3.65%	6.10%	45	63	90	Up to 120 months fixed rate
1st mtg 0E variable	62	0.1%	4.00%	5.64%	49	49	49	Variable rate - tied to prime
1st mtg balloon 10 year	16,106	13.7%	3.78%	6.85%	62	72	87	10 year balloon
2nd mtg fixed	560	0.5%	5.05%	6.57%	38	40	43	Up to 120 months fixed rate
2nd mtg 0E variable	2,835	2.4%	4.46%	6.76%	42	42	42	Variable rate - tied to prime
MBL 1st mort fixed	2,158	1.8%	4.06%	6.60%	22	40	67	Up to 180 months fixed rate
MBL 2nd mort fixed	0	0.0%	0.00%	0.00%	70	72	75	Up to 120 months fixed rate
Commercial RE balloon greater than	276	0.2%	3.75%	8.00%	35	45	60	Balloons greater than 5 years
Shares/CD	217	0.2%	2.59%	2.89%	33	33	33	Fixed-rate share secured
Signature	797	0.7%	10.87%	11.16%	15	15	15	Fixed-rate consumer unsecured
Mobile homes	274	0.2%	8.28%	9.22%	51	51	51	Fixed-rate consumer collateral
New auto	7,732	6.6%	4.55%	5.49%	34	34	34	Fixed-rate consumer collateral
Overdraft	402	0.3%	11.52%	12.16%	12	12	12	Revolving credit
Recreation vehicles	9,512	8.1%	5.92%	6.99%	27	27	27	Fixed-rate consumer collateral
Usedautos	52,218	44.4%	5.02%	6.43%	28	28	28	Fixed-rate consumer collateral
Visa	1,220	1.0%	10.93%	11.16%	36	36	36	Revolving credit
Land loan	0	0.0%	0.00%	0.00%	38	40	43	15 years fixed rate
	0	0.0%	0.00%	0.00%	0	0	0	
Business title loans fixed	138	0.1%	6.68%	9.50%	48	48	48	Fixed-rate commercial collateral
Allowance for loan losses	(419)	-0.4%	0.00%	0.00%	0	0	0	
Net Loans	102,910	87.5%	4.86%		36	39	44	Weighted Average

*SOURCE: S&P GLOBAL MARKET INTELLIGENCE CONTAINS COPYRIGHTED AND TRADE SECRET MATERIAL DISTRIBUTED UNDER LICENSE FROM S&P

FIXED RATE OR BALLOON 10 YR+ ~ 20% OF TOTAL ASSETS



BIG PICTURE - SAMPLE CREDIT UNION INVESTMENTS

			200		Maturity	Term In	Term In Months		
	Balance in	% of Total	Current Vield	Market Yield for NEV*	Shock Down -200 BP	Bench mark	Shock Up 300 BP		
Daily accounts	8,814	7.5%	4.27%	4.27%	1	1	1		
	0	0.0%	0.00%	0.00%	0	0	0		
Investment CDs non-callable	746	0.6%	0.86%	4.48%	27	27	27		
Investment CDs callable	0	0.0%	0.00%	0.00%	0	0	0		
Investment CDs step/callable	0	0.0%	0.00%	0.00%	0	0	0		
Securities non-callable	0	0.0%	0.00%	0.00%	0	0	0		
Securities callable	0	0.0%	0.00%	0.00%	0	0	0		
Securities step/callable	0	0.0%	0.00%	0.00%	0	0	0		
	0	0.0%	0.00%	0.00%	0	0	0		
	0	0.0%	0.00%	0.00%	0	0	0		
	0	0.0%	0.00%	0.00%	0	0	0		
Membership shares	300	0.3%	2.90%	2.90%	1	1	1		
Total Investments	9,860	8.4%	3.97%						

SAMPLE CREDIT UNION IRR INCOME SIMULATION

PANEL 1 INCOME SIMULATION

3-Year Cumulative (\$000)	SHOCK DOWN -300 BP	SHOCK DOWN -200 BP	SHOCK DOWN -100 BP	Benchmark	SHOCK UP 100 BP	SHOCK UP 200 BP	SHOCK UP 300 BP
Net Interest Income (NII)	\$11,253	\$12,460	\$13,577	\$14,670	\$14,840	\$15,190	\$15,510
\$ Change from benchmark NII	(3,416)	(2,210)	(1,093)		170	520	840
% Change from benchmark NII		-15.1%	-7.4%		1.2%	3.5%	5.7%
Maximum Allowed % Change from Benchmark NII		-20.0%	-20.0%		-20.0%	-20.0%	-20.0%
Net income:	\$4,038	\$5,244	\$6,361	\$7,454	\$7,624	\$7,974	\$8,294
ROA:	1.11%	1.45%	1.75%	2.05%	2.10%	2.20%	2.29%

INCOME SIMULATION ANALYSIS - PANEL 1

The results are presented in a 3 year cumulative format. This analysis simulates interest income and interest expense (dividends) in benchmark and shock scenarios. It is designed as a stress test to evaluate sensitivity interest rate changes. In order to keep the impact of variables under control, many elements of the simulation remain static. Growth, asset and share mix, operating expenses, and fee income fall in this category. For this reason the benchmark simulation should not be considered a likely scenario; nor should it be used to forecast likely results for the coming year. DETAIL OF ANALYSIS IN SECTION 1





INCOME SIMULATION CHANGE IN NII

POLICY LIMITS CAN CHANGE AS NIM CHANGES



SAMPLE CREDIT UNION IRR INCOME SIMULATION

Why do the down rate shocks look bad and exceed policy limits?

- 1. Consider floor rates on loans.
- 2. Consider repricing terms on loans and investments.
- 3. Consider current cost of funds (currently at .94).
- 4. Many credit unions have much lower cost of funds.
- 5. When down shock exceeds cost of funds the net interest margin is compressed and may give unrealistic results.



PAST INCOME SIMULATION REPORTS UP RATE SHOCK

As of December 31, 2021

INCOME SIMULATION COMPARATIVE ANALYSIS OF RATES-UP SHOCK TO BENCHMARK

In Thousands of Dollars

III I II I II I I I I I I I I I I I I											
Shock Criteria: Instantaneous and Parallel	BENCHMARK	UP RATE 3%									
					Maximum						
					Allowed %						
Assumptions: See pages 10					Change from						
Assumptions: See pages 10	FORECASTED	FORECASTED		% Chng from	Benchmark						
and 11	INCOME	INCOME	Change	Benchmark	NII	Variance					

Υ	EΑ	R	1

2					
Loan Interest Income	4,029	4,604	575	14.3%	
Investment Interest Income	29	414	385	1343.7%	
Total Interest Income	4,058	5,018	960	23.7%	
Dividends & Interest Paid	742	1,571	829	111.6%	
Net Interest Income	3,316	3,448	132	4.0%	
Total Fees & Misc. Income	1,031	1,031			
Operating Expenses	2,710	2,710			
Forecasted Net Income Year 1	1,637	1,769	132	8.1%	

2022 Loan interest income actual \$4,500

2022 Investment income actual \$30

2022 Cost of Funds Actual \$1,052

2022 NII Actual \$ Actual \$3,478



SAMPLE CREDIT UNION IRR NET ECONOMIC VALUE DETAIL

PAGE 28 OF ALMPRO REPORT

						70				Rates-	Up Shock								
	Current Balance	Benchmark Current Economic	\$ Amount Change	% Change	Post Shock Economic Value	\$ Change in		Maximum Allowed % Change in EV		Post Shock Economic Value	\$ Change in	% Change in EV from	Maximum Allowed % Change in EV		Post Shock Economic Value	\$ Change in		Maximum Allowed % Change in EV	
	Sheet		from Book		1.0%	Benchmark	Benchmark	Ratio*	Variance	2.0%		Benchmark	Ratio*	Variance	3.0%	Benchmark	Benchmark	Ratio*	Variance
Net Loans	102,910	99,631	(3,278)	-3.2%	97,840	(1,791)	-1.8%	8		96,000	(3,632)	-3.6%			94,127	(5,504)	-5.5%		
Total Investments	9,860	9,800	(60)	-0.6%	9,784	(15)	-0.2%			9,769	(30)	-0.3%			9,755	(44)	-0.5%		
All other assets	4,825	4,825	0	0.0%	4,825	0	0.0%			4,825	0	0.0%			4,825	0	0.0%		
Total Assets	117,595	114,256	(3,339)	-2.8%	112,450	(1,807)	-1.6%	8		110,594	(3,662)	-3.2%			108,707	(5,549)	-4.9%		
Borrowed funds	0	0	0	0.0%	0	(0)	-0.2%			0	(0)	-0.5%			0	(0)	-0.7%		
All other liabilities	-63	-63			(63)					(63)					(63)				
Total Deposits	106,827	96,193	(10,634)	-10.0%	93,544	[2,649]	-2.8%			91,618	(4,575)	-4.8%			89,853	[6,340]	-6.6%		
NET WORTH	10,831	18,126	7,295	67.4%	18,968	842	4.6%	-30.0%	34.6%	19,039	913	5.0%	-30.0%	35.0%	18,917	791	4.4%	-30.0%	34.4%
Total Liab & Net Worth	117,595	114,256	(3,339)	-2.8%	112,450	(1,807)	-1.6%			110,594	(3,662)	-3.2%			108,707	(5,549)	-4.9%		

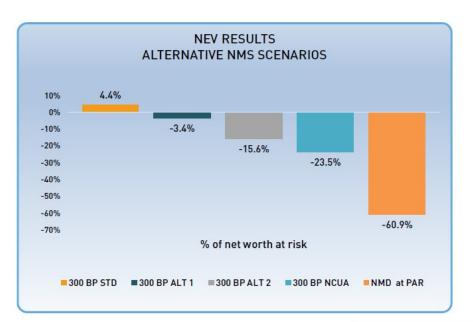
NET WORTH ANALYSIS UP RATE SHOCK

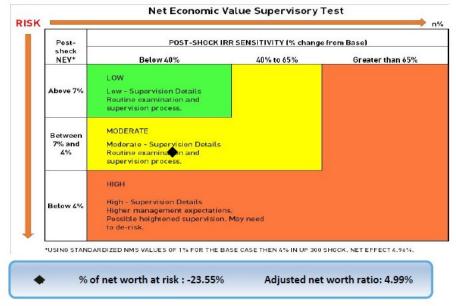
Book NW	Net Economic Value
Ratio	Ratio
9.2%	15.9%

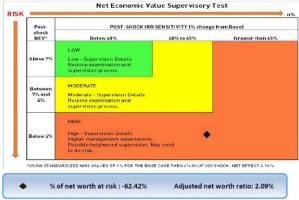
1.0% Rate Shock			2.0% Rate Shock		3.0% Rate Shock				
Post Shock Net Economic	Minimum Post Shock NEV		Post Shock Net Economic	Minimum Post Shock NEV		Post Shock Net Economic	Minimum Post Shock NEV		
Value Ratio	Ratio	Variance	Value Ratio	Ratio	Variance	Value Ratio	Ratio	Variance	
16.9%	7 %	9.9%	17.2%	7%	10.2%	17.4%	7%	10.4%	



NEV RESULTS WITH DIFFERENT NON-MATURITY DEPOSIT ASSUMPTIONS INCLUDING NCUA SUPERVISORY TEST PAGE 8 ALMPRO REPORT



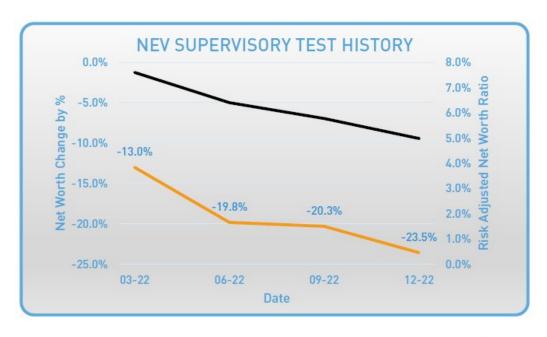






NON MATURITY DEPOSITS & IRR RESULTS

PAGE 31 ALMPRO REPORT



- ANTICIPATED NCUA RISK RATING ------

MODERATE

WHY THE SUPERVISORY TEST IS NOT WORKING

- Balance sheets grew during the pandemic
- 2. Net worth ratios declined
- 3. CU's took on more long-term assets trying to improve income
- 4. Interest rates increased dramatically
- 5. NMS premium values did not adjust in the base case. The premiums were 1% before rates increased and 1% after rates increased
- 6. Asset values decline in the base case and decline further in the up 300 rate shock



POLL QUESTION #3



LIQUIDITY FORECASTING 2021

LIVELV

\$27,571

INCORPORATED	SCEN	
	12-month cash flow totals (000)	Average growth factor
Cash flow from loans	(\$6,190)	8.4%
Cash flow from deposits and borrowings	\$11,741	13.1%
Off balance sheet source (uses)	\$0	
Net cash flow from loans, deposits, borrowings and off-balance sheet	\$5,551	
Investment Maturities	\$1,995	
Net Income	\$1,331	
Available cash and overnight investments	\$18,694	

SCENARO							
12-month cash flow totals (000)	Average Growth Factor						
(\$3,697)	5.0%						
(\$4,478)	-5.0%						
\$0							
(\$8,175)							
\$1,995							
\$1,295							
\$18,694							
\$13,809							

MODERATE

CCENADO

SCENARIO					
12-month cash flow totals (000)	Average Growth Factor				
(\$7,394)	10.0%				
(\$8,957)	-10.0%				
\$0					
(\$16,350)					
\$1,995					
\$1,389					
\$18,694	30				
\$5,728					

SEVERE

SCENARIO							
12-month cash flow totals (000)	Average Growth Factor						
\$0	0.0%						
(\$8,957)	-10.0%						
\$0							
(\$8,957)							
\$1,995							
\$1,232							
\$18,694							
\$12,965							

SYSTEMIC

Other stress considerations: Unfunded LOC draws Capital expenditures

Net Cumulative Cash Flow



LIQUIDITY FORECASTING NOW

	MARK H. Smith	L IKELY Scenario		MODERATE SCENARIO		SEVERE SCENARIO		99 <u>4</u>	SYSTEMIC SCENARIO		
		12-month cash flow totals (000)	Average growth factor	12-month cash flow totals (000)	Average Growth Factor	12-month cash flow totals (000)	Average Growth Factor		12-month cash flow totals (000)	Average Growth Factor	
	Cash flow from loans	(\$17,902)	17.3%	(\$5,166)	5.0%	(\$10,333)	10.0%		\$0	0.0%	
	Cash flow from deposits and borrowings	\$10,713	10.0%	(\$5,341)	-5.0%	(\$10,683)	-10.0%		(\$10,683)	-10.0%	
>	Off balance sheet source (uses)	\$0		\$0		\$0			\$0		
	Net cash flow from loans, deposits, borrowings and off-balance sheet	(\$7,189)		(\$10,508)		(\$21,016)			(\$10,683)		
	Investment Maturities	\$248		\$248		\$248			\$248		
	Net Income	\$2,248		\$2,080		\$2,043			\$1,986		
	Available cash and overnight investments	\$9,258		\$9,258		\$9,258			\$9,258		
	Net Cumulative Cash Flow	\$4,564		\$1,078		(\$9,467)			\$809		
	Operational Guidelines (000) Variance (000)	\$5,8 (\$1,3		(\$3,0 \$4,0			500) 967)		\$0 \$80		

Other stress considerations: Unfunded LOC draws Capital expenditures

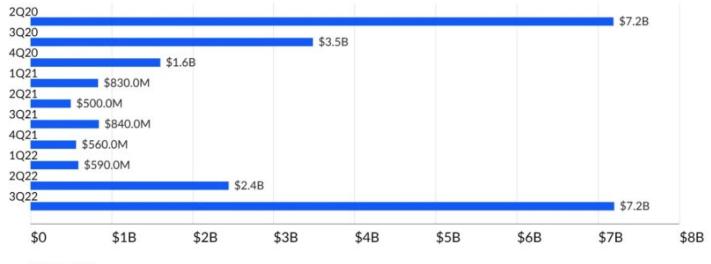


LIQUIDITY FORECASTING NOW

Banks with assets of \$3 billion or less drove that increase. Such banks borrowed via the discount window an average of four days in 2022, compared with an average of two days for banks in larger asset classes, according to the Fed data.

Renewed source of liquidity

Borrowing by banks from the Federal Reserve's discount window rose in the third quarter of 2022 to its highest level since the early stages of the pandemic



Source: Fed



STRATEGIES AS RATES INCREASE AND LIQUIDITY FLUCTUATES

Increase	Slow	Do not	Strategy	Manage	Anticipate	Preserve
Increase loan yields as quickly as possible. Manage loan production with rates	Increase cost of funds slowly and keep as low as possible to maintain NII It appears the lag is ending	Do not overpay for deposits you cannot utilize	Have a strategy in place to increase rates on rate sensitive deposits you don't want to lose. (more than a rate match when the member asks)	Prepare cash flow analysis in multiple scenarios. Good contingency plan. Prepare for potential deposit runoff	Anticipate draws on unfunded LOC or other cash needs. (inflation pressures)	Preserve funds for projects or programs planned or developed for the current environment



PLAN TO MANAGE COST OF FUNDS

- Don't follow-the-leader
- Complete product offerings
- Develop effective segmentation
- Identify saving motivations
- Make decisions based on fact not emotion
- Model or test options
- Don't pay for or attract undesirable funding



LAST BUT NOT LEAST IRR AND RELATED POLICY

Does my IRR Policy have all the right elements?

Key elements:

- Consistent with credit union's business strategies.
- Consistent with credit union's financial condition.
- Not too restrictive or too liberal.
- Adequately reflect board's risk tolerance.
- Establish framework for effective IRR program.
- Include limits and controls.



PROGRAM EFFECTIVENESS AND USE IN DECISION-MAKING

- Utilize the analysis for new products, strategies, and other "what if" scenarios.
- Utilize the analysis to make decisions
- Assist in improving or maintaining profitability
- Control exposure to changing interest rates.
- Help to better manage the credit union.
- Develop response to negative trends.
- Document the process.



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