NCUA EDS Meeting Alexandria, Virginia February 16, 2012

Asset/Liability Management Deposit & Loan Pricing

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		Assot liabili	ty Management
		ASSEL-LIADIII	ty management
1. ALM	is		
2. Nom	enclature/acroi	nyms (e.g., Equity - Ne	et Worth – Capital - Reserves and Undivided
Earnii	ngs)		
3. Risk/	return tradeoff		
4. Timii	ng, magnitude,	certainty of cash flow	S
5. Ident	ify and quantif	y key CU balance shee	et risks
<u>Credi</u>	<u>t Risk</u> - likelił	nood members don't pa	ay us when they say they will
<u>Liqui</u>	dity Risk - lik	elihood that we lose m	oney when fulfilling financial obligations
Intere	est Rate Risk	 likelihood that earning 	ngs change when market interest rates change
6. NCU	A/Examiners -	 CAMEL rating system 	m:
<u>C</u> apital ad	equacy	<u>1 key ratio</u> :	Net worth/assets (7%+)
<u>A</u> sset qual	ity	2 key ratios:	
			Delinquencies/loans (< 1.25%)
			Net chargeoffs/average loans (<0.25%)
<u>M</u> anagem	ent	No key ratios	
<u>E</u> arnings		<u>1 key ratio</u> :	Net inc./avg. assts (>1.00%)
asset/ <u>L</u> iab	ility mgmt.	No key ratios	
7. What	's missing? Th	hree pillars of success:	
	•	Make Money	
	•	Stay solvent	
	•		

Growth / Net Worth / ROA Tradeoff

Beginning net worth ratio = 10%

Assumed asset growth rate = 10%

Required return on ending assets to maintain net worth ratio = Beginning net worth ratio x Assumed asset growth rate

=	.10	Х	.10
=		.01	
=		1.00%	





BASE	CASE	CU

		Bala	nce at end of			Year's	Percent of	Annual Percent
	Jan. 1	Mar.	June	Sept.	Dec.	Avg.	Total	Change
Assets								
Consumer loans	\$597	\$599	\$600	\$601	\$603	\$600	60%	1%
Mortgage loans	0	0	0	0	0	0	0%	0%
Investments	264	282	300	318	337	300	30%	28%
Other assets	97	98	100	102	104	100	10%	7%
Total Assets	\$958	\$979	\$1,000	\$1,022	\$1,044	\$1,000	100%	9%
Liabilities & Equity								
Regular shares	\$381	\$391	\$400	\$410	\$420	\$400	40%	10%
Share drafts	197	199	200	201	203	200	20%	3%
Certificates	283	292	300	309	317	300	30%	12%
Reserves & UDE	96	98	100	102	104	100	10%	8%
Tetal Lister 0 Desites	\$958	\$979	\$1,000	\$1,022	\$1,044	\$1,000	100%	9%

BASE CASE CU

INCOME STATEMENT

					Total
	Total for	quarter endi	ng:		for
Income	Mar.	June	Sept.	Dec.	Year
Consumer loan interest	\$13.4	\$13.5	\$13.5	\$13.6	\$54.0
Mortgage loan interest	0.0	0.0	0.0	0.0	0.0
Investment interest	2.0	2.2	2.3	2.5	9.0
Fees and other income	1.8	1.9	1.9	1.9	7.5
Total Income	\$17.3	\$17.5	\$17.7	\$17.9	\$70.5
Expense					
Regular share dividends	\$2.9	\$3.0	\$3.0	\$3.1	\$12.0
Share draft dividends	1.0	1.0	1.0	1.0	4.0
Certificate dividends	2.9	3.0	3.0	3.1	12.0
Operating expenses	7.9	8.0	8.2	8.4	32.5
Loan loss provisions	0.7	0.7	0.8	0.8	3.0
Total Expense	\$15.4	\$15.7	\$16.1	\$16.4	\$63.5
Net Income	\$2.0	\$1.8	\$1.7	\$1.5	\$7.0

BASE CASE CU

	Average Balance	Percent of Total	Interest Income	Effective Rate			Average Balance	Percent of Total	Interest Expense	Effective Rate
Yields:						Costs:				
Consumer loans	\$600	60%	\$54.0	9.00%		Regular shares	\$400	40%	\$12.0	3.00%
Mortgage loans	0	0%	\$0.0	0.00%		Share drafts	200	20%	\$4.0	2.00%
Investments	300	30%	\$9.0	3.00%		Certificates	300	30%	\$12.0	4.00%
Other assets	100	10%				Reserves & UDE	100	10%		
Totals	\$1,000	100%	\$63.0	6.30%		Totals	\$1,000	100%	\$28.0	2.80%
		-	Dalla	Pe	rcent	Pagis				
			Dolla	r of Av	erage	Basis				
			Amoun	t A	Assets	Points				
Yield on	total assets		\$63.0) 6	5.30%	630				
 Cost of to 	otal assets		\$28.0) 2	.80%	280				
 Gross spr 	ead	-	\$35.0) 3	.50%	350				
+ Other inc	ome (fees)		\$7.5	5 0	.75%	75				
- Operating	expenses		\$32.5	5 3	.25%	325				
 Net sprea 	d	-	\$10.0) 1	.00%	100				
- Loan loss	provisions		\$3.0	0 0	.30%	30				
- Loantoss										

	-				1. Make N	loney			
	Sample		Spreads	- Basis Poi	nts of Avera	ge Assets -	Annualiz	zed YTD	
Asset size:	# of	Interest	Div. &	Gross	Fee	Other	Oper.	Loss	ROA: Net
(\$ in Millions)	CUs	yield -	int. cost =	spread +	income +	income -	Exp	Provision =	Income
\$0.0 - 0.5	296	373	64	316	32	31	471	45	-137
0.5 - 1.0	241	421	83	357	36	5	418	50	-70
1.0 - 2.0	390	427	80	359	39	25	457	38	-72
2.0 - 5.0	818	431	82	368	45	15	425	33	-31
5.0 - 10.0	921	415	85	353	54	17	400	32	-8
10.0 - 20.0	1,079	403	85	343	77	22	401	34	7
20.0 - 50.0	1,341	404	93	338	77	28	391	37	15
50.0 - 100.0	806	416	99	344	87	38	400	36	32
100.0 - 200.0	574	413	108	335	93	43	390	39	42
200 - 500.0	462	410	110	327	94	52	372	48	54
500.0 - 1,000.0	215	405	118	316	77	56	338	46	64
\$1,000.0 and over	179	405	136	297	60	67	280	58	86
All CUs	7,322	407	93	314	73	56	328	50	65
All CUs 2010	7,486	446	121	325	78	55	330	78	50
All CUs 2009	7,708	491	173	318	83	41	316	111	15
All CUs 2008	7,486	556	241	315	86	50	335	85	31
All CUs 2007	8,262	589	278	311	87	49	338	43	66

				2. Stay Solvent				3. Grow	
	Sample	Capital Adequacy	Asset	Quality	Liquidity	IRR	Y	TD Growt	h
Asset size:	# of	Net Worth to Total	\$ Delinquent	Net Chargeoffs/	Loans/	Net LT Assets			
(\$ in Millions)	CUs	Assets	Loans/Loans	Average Loans	Savings	/Assets	Savings	Loans	Members
\$0.0 - 0.5	296	21.5%	8.19%	1.41%	48.7%	2.3%	-9.9%	-9.0%	-4.0%
0.5 - 1.0	241	18.9%	4.35%	0.79%	57.1%	2.8%	1.6%	-2.7%	-4.29
1.0 - 2.0	390	16.7%	4.16%	0.71%	56.8%	4.3%	2.5%	-2.0%	-2.6%
2.0 - 5.0	818	15.2%	2.49%	0.61%	57.8%	6.5%	2.8%	-1.1%	-1.0%
5.0 - 10.0	921	13.8%	2.10%	0.67%	55.3%	11.9%	3.6%	-1.7%	-1.0%
10.0 - 20.0	1,079	13.0%	1.74%	0.68%	56.0%	17.2%	3.6%	-0.9%	-0.5%
20.0 - 50.0	1,341	11.6%	1.54%	0.70%	58.4%	24.0%	4.0%	-0.8%	-0.3%
50.0 - 100.0	806	10.8%	1.42%	0.69%	62.6%	29.1%	4.2%	0.1%	-0.1%
100.0 - 200.0	574	10.2%	1.44%	0.75%	66.5%	33.3%	3.7%	0.1%	0.1%
200 - 500.0	462	10.3%	1.53%	0.89%	68.3%	37.8%	4.0%	0.3%	1.3%
500.0 - 1,000.0	215	10.2%	1.44%	0.82%	70.6%	42.0%	4.6%	0.9%	1.4%
\$1,000.0 and									
over	179	9.7%	1.69%	1.02%	72.9%	38.7%	5.4%	1.5%	3.6%
All CUs	7,322	10.2%	1.59%	0.91%	69.5%	36.8%	4.7%	0.9%	1.7%
All CUs 2010	7,486	10.1%	1.75%	1.13%	72.2%	33.1%	5.2%	-0.4%	1.7%
All CUs 2009	7,708	10.2%	1.82%	1.22%	76.3%	31.6%	11.6%	2.3%	2.7%
All CUs 2008	7,486	11.0%	1.37%	0.84%	83.2%	32.0%	7.9%	7.7%	2.7%
All CUs 2007	8,262	11.5%	0.93%	0.50%	83.4%	26.3%	6.1%	7.5%	2.4%

The Good Old Days

Balance sheet management was simple:

- Investments had clearly defined, one dimensional outcomes
- Mortgages were prepaid only when significant advantage was obvious
- Savers saw the certainty of retail deposits as an advantage
- Competition was local and relationships drove banking

Life was good:

- High margin balance sheets produced steady performance
- Stable cash flows led to ample and predictable liquidity

The Environment Today

Balance sheet management is more complex

- Investments are multi-dimensional and optionality driven
- Mortgages prepay at the first hint of a rate advantage
- Retail deposits are a constant supply and cost challenge

Life is Much Tougher:

- Low margins and optionality have transformed balance sheets
- Producing highly variable cash flows, unsteady performance and uncertain liquidity





Wisely Enhancing Margin in a Low Rate Environment

Margin compression has caused financial institutions to make expensive mistakes. History reflects:

- Unwise levels/types of risk
- Unsupportable acquisitions
- Ill-advised diversification schemes
- Etc.

Pricing Strategies

Competitive-based Pricing

- Set rate within members fair price range
- Retains balances during period of aggressive rate competition

Penetration Pricing

- Pay high rate to increase volume and market share
- Apply to sensitive supply
- Use if competition not expected to respond
- Economies of scale: increase volume to reduce operating expense ratio

Below-market Pricing

- Differentiate on non-price benefits/dimension
- Personal service
- Loyalty
- CU philosophy (people before money)

Loss-leader Strategy

- Pay above market rate
- Used to attract new members who then use complementary services that are profitable





CASE #1a: CD PRICING - MEET THE COMPETITION No change in balances, increase certificate rates 1.00%

	Average Balance	Percent of Total	Interest Income	Effective Rate		Average Balance	Percent of Total	Interest Expense	Effective Rate
Yields:					Costs:				
Consumer loans	\$600	60%	\$54.0	9.00%	Regular shares	\$400	40%	\$12.0	3.00%
Mortgage loans	0	0%	\$0.0	0.00%	Share drafts	200	20%	\$4.0	2.00%
Investments	300	30%	\$9.0	3.00%	Certificates	300	30%		
Other assets	100	10%			Reserves & UDE	100	10%		
Totals	\$1,000	100%	\$63.0	6.30%	Totals	\$1,000	100%		
		Yiel	d on total a	ssets	\$63.0	63)		
		Yiel	d on total a	ssets	Amount \$63.0	Points 63	0		
		= Gro	ss spread				1		
		+ Oth	er income (f	fees)	\$7.5	7.	5		
		 Ope 	rating exper	ises	\$32.5	32	5		
		= Net	spread						
		- Loa	n loss provi	sions	\$3.0	3	0		
		= Not	income			í .	٦		

	DIGGOT A								
INTEREST YIEL	D/COST A	NALYSIS							
	Average	Percent	Interest	Effective		Average	Percent	Interest	Effective
\$79.11	Balance	of Total	Income	Rate	C	Balance	of Total	Expense	Rate
Yields:	¢ 600	7104	\$540	0.000/	Costs:	\$400	4706	¢12.0	2 000
Mortagge logns	2000	/1%	\$0.0 \$0.0	9.00%	Share drafts	200	4/%	\$4.0	2.009
Investments		1.8%	40.0	3.00%	Certificates	200	1.8%	ψ+.0	4 009
Other assets	100	12%		5.0070	Reserves & UDE	100	12%		1.007
Totals		100%		6.88%	Totals		100%		2.599
SPREA		as.							
Yield or - Cost of = Gross sp	i total assets total assets read		Dollar Amount]	Basis Points				
Yield or - Cost of = Gross sp + Other in	i total assets total assets rread come (fees)		Dollar Amount	5	Basis Points				
Yield or - Cost of = Gross sp + Other in - Operatir	total assets total assets read come (fees) g expenses		Dollar Amount 7.: 32.	5	Basis Points 88 382				
Yield or - Cost of = Gross sp + Other in - Operatin = Net spre	i total assets total assets read come (fees) g expenses ad		Dollar Amount 7.: 32.:		Basis Points 88 382				
Yield or - Cost of 1 = Gross sp + Other in - Operatin = Net spre - Loan los	i total assets total assets read come (fees) ig expenses ad s provisions		Dollar Amount 7.: 32.: 3.0	5 5 2	Basis Points 88 382 35				

Sound Pricing Strategy

- 1. Focus on marginal cost / marginal yield
- 2. Create benchmarks
- 3. Segment!

1. Marginal Cost / Marginal Yield• Current share rate0.50%• Proposed change1.00%• Current balances\$85M• Expected growth\$4.25M

1. Marginal Cost / Marginal Yield

This strategy is consistent with their goal to grow deposits. Assume that \$4.25m in new money is attainable. Would you:

- Raise the rate to 1.00%?
- Keep the rate at 0.50%?
- Reduce the rate further?

1. Marginal Cost / Marginal Yield Annualized **Balance** Rate Expense **Base Case** \$85,000,000 0.50% \$425,000 Х = **Alternative Strategy** \$89,250,000 1.00% \$892,500 Х = \$467,500 Difference \$4,250,000 11.00% **Marginal Cost** (**\Delta** expense) / (**\Delta** balances)

1. Marginal Cost / Marginal Yield

- How can our cost of funds be 11.0% when we're only paying 1.00% on the average?
 - Average cost doesn't evaluate one alternative vs. another
 - Average cost hides the extra money you had to pay on balances you would have had at the lower rate anyway
 - ***11.0% cost does not include any shift***



1. Marginal Cost / Marginal Yield

- What does this analysis tell us?
 - We will be more profitable as long as we can raise the \$2,000,000 we chased off via another source of funding that is less expensive than 4.65%
 - Why 4.65% and not 0.50%? Because we're saving 10bp on \$83 million of existing balances, we can pass that savings on to the cost of our alternative funding source

1. Marginal Cost / Marginal Yield

- Objective is to use the funding source that provides the lowest marginal cost PROVIDED IT FITS IN THE CONTEXT OF YOUR A/L GUIDELINES!
- Tactical decisions focus on short-term profitability
 most of today's discussion is geared towards tactical analysis!!
- Strategic decisions focus on long-term solvency and risk scenarios (ie. ALM).

2a. Creating Deposit Benchmarks

- Running a credit union is a series of decisions within your risk return profile
- Select ANY interest bearing asset or liability on your balance sheet, you made a choice to take it based on risk versus reward
- Retail versus wholesale choice

2a. Creating benchmarks for your deposits

- What's our retail option for funding?
 - Checking, savings, CD's, MMDA's
- What's our wholesale option for funding?
 - Corporate Credit Union
 - FHLB District Banks
 - Brokered CD's

Federal Housing F	inance Agency	- Bank Distric	ets			Page 1 of 1
Federal I Finance	Housing Agency	Prov miss Fede so ho	Missio vide effective superv sion oversight of Fan eral Home Loan Bank undness, support ho using, and support a m	n Statement: ision, regulation and ho nie Mae, Freddie Mac ar is to promote their safe using finance and afford stable and liquid mortg narket.	ousing Contact Us nd the ty and dable Advanced S gage	s Site Map Subscribe
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Open Government						
Enterprises						
EHI Bank Information	Bank Districts					
FHLBank Districts	The following is the co	ontact information for eac	h of the FHLBanks ar	nd the states for which e	each bank is responsible	ı.
FHI Bank Members	Atlanta		Dallas		Pittsburgh	
FHLBank Directors	1475 Peachtree St. Atlanta, GA, 30309 Tel: 1.800.536.9650		P.O. Box 619026 8500 Freeport Pkw Dallas, TX 75261 Tel: 214 441 8500	y South, Suite 100	601 Grant Street Pittsburgh, PA 15 Tel: 412.288.340	219 0
Housing Community	http://www.inibati.co	, and the second s	http://www.fhlb.co	m/	http://www.http-	ogn.com/
Investments	States:		States:		States:	
FHFB Board of Directors Meetings (Archive)	Alabama Georgia Maryland South Carolina	District of Columbia Florida North Carolina Vizzinia	Arkansas New Mexico Texas	Louisiana Mississippi	Delaware West Virginia	Pennsylvania
FHLBank System	Boston	*ignit	Des Moines		San Francisco	
Reporting	P.O. Box 990411		Skywalk Level		P.O. Box 7948	
Fannie Mae	800 Boylston Street 9th Floor Boston, MA 02199		801 Walnut Street, Des Moines, IA 503 Tel: 1.800.544.345	Suite 200 09-3513 2	600 California Str San Francisco, CA Tel: 415.616.100	veet, Suite 300 \ 94120 0
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Fannie/Freddie Public	States:		States:	Minnesota	States: Arizona	California
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	200 East Randolph D Chicago, IL 60601 Tel: 312.565.5700 http://www.fhlbc.com	rive, Suite 1800 n	8250 Woodfield Cro Indianapolis, IN 46 Tel: 317.465.0200 http://www.fhlbi.co	ossing Blvd. 240 pm/	1501 Fourth Ave., Seattle, WA 9810 Tel: 800.973.622 http://www.fhlbs/	, 18th Floor 1-1693 3 ea.com/
	States: Illinois	Wisconsin	States: Indiana	Michigan	States: Alaska Montana Utah Wyoming Hawaii	Idaho Oregon Washington Guam

8:14 AM	2/13/12 8:14	Indications	Rate			
Member Transaction			x	nformation B	1	
877-230-1610		nds run out)	vailable untill fu	inimum size (a	ortunity: No M	Funding Opp
David Vidler Manager Adan				,	02/12 @ .155%	Maturing 03/0
Anne Halloran Ange						
Ange						
EAX 212 552 1220						
FAX 312-552-1220						
Hours of Operation: 8:00 a.m.						
Floating Rate Adva			nces	ed Rate Adva	Fixe	
Today		Prior Day	Regular	CICA	114	erm
e A010 Set in PM	Open Line	0.17%	0.18%	n/a	A120	week
ntil 3:00 pm by calling 877-230-1610	Available until 3:00	0.18%	0.19%	n/a	A120	week
dvances Available until 4:30 pm by calling 877-230-1	Late Day Advances	0.19%	0.20%	n/a	A120	8 week
Term Index	Maturity/Term	0.21%	0.21%	0.16%	A121	month
A012 FHLBC Fed Effe	1 month	0.23%	0.23%	0.18%	A121	month
A016 Federal Fund Eff	1 month	0.26%	0.26%	0.21%	A121	month
A016 Federal Fund Eff	3 month	0.30%	0.30%	0.25%	A121	year
		0.36%	0.36%	0.31%	A121	8 month
		0.46%	0.46%	0.41%	A121	year
A400	6 month	0.68%	0.69%	0.54%	A121	year
A400	9 month	0.97%	0.98%	0.83%	A121	year
A400	1 year	1.23%	1.24%	1.10%	A121	year
A400	1.5 year	1.49%	1.52%	1.37%	A121	o year
A400	2 year	1.86%	1.88%	1.65%	A121	year
A400	3 year	2.51%	2.52%	2.38%	A121	0 year
A400	4 year	0.92%	0.94%	0.79%	Am	Amort- 5y fully
A400	5 year	1.96%	1.99%	1.84%	y Am	Amort- 10y full





2a. Creating benchmarks for your deposits

Where can we get deposit servicing costs?

- http://www.occ.treas.gov
- Left side: Click on Key Resources
- Click on Asset and Liability Price Tables
- Deposits start on page 21 (approximately)
- Look for footnotes (e.g., "Annual non-interest cost of 0.20 percent")

2a. Creating benchmarks for your deposits

- OCC servicing cost values (4th quarter 2011):
 - Share savings 1.39%
 - Share draft / checking 1.80%
 - MMDA 0.86%
 - Certificates 0.20%





2a. Creating benchmarks for your deposits

Efficiently priced deposits have 2 benefits:

- 1. Minimized cost of funds = max net income
- Use the benchmark as your discount rate when calculating present value of projected cash flows (NEV). To the extent that you consistently beat your wholesale alternative, your PV will be optimized.





Current Position	\$ Retained		Proposed Rate	Annual Exp.
Savings	\$32,456,252		1.00%	\$324,563
Money Market-\$10,000 min bal	12,000,000		1.70%	\$204,000
3 Month CD	465,000		1.00%	\$4,650
6 Month CD	315,000		1.25%	\$3,938
Total	\$45,236,252			\$537,151
Alternative Position	% Retained	\$ Retained	Proposed Rate	Annual Exp.
Savings	97%	\$31,482,564	0.90%	\$283,343
Money Market-\$2500 min bal	100%	\$12,000,000	1.70%	\$204,000
3 Month CD	50%	\$232,500	0.95%	\$2,209
6 Month CD	50%	\$157,500	1.15%	\$1,811
7 Month CD Special		\$3,500,000	1.45%	\$50,750
Total		\$47,372,564		\$542,113
Difference		\$2,136,312		\$4,962
				0.000





Implementing Non-Maturity Specials

- Make sure you consider marginal (not average!) cost
- CAUTION: 100% EXPOSURE!
- Tier existing accounts down, but not up
- Make the member **DO** something to tell you they're rate sensitive

Performance and IRR Elements of Core Deposit Behaviors

- Customer focus on service creates stable funding with comparatively low rates
- Such funding is slow to change interest expense that can be used to hedge income at risk IRR
- Premiums reflect the long term, comparatively low cost nature of core deposits, and they can be applied to hedge equity at risk IRR and add performance







	Wholesale instrument
30 YR FNMA MBS	5.75%
	Retail equivalent
Credit Risk Adjustment	0.05%
Servicing Cost Adjustment	0.25%
Other Risk Adjustment	0.00%
	 6 05%

Creating ber	nchmarks	s for loans		
30 Year FRM vs.	1/1 ARM (2/6 caps)			
	Our Price	Market Low		
– 30 Yr FRM	6.375 %	5.90 %		
– 1/1 ARM	4.356 %	4.34 %		
Which loan is a bette its ris	er priced lo ks and cost	an, considering ts?		



	Wholesale instrument
1/1 ARM FNMA MBS	3.87%
Oredit Diels Adjustment	Retail equivalent
Servicing Cost Adjustment	0.05%
Other Risk Adjustment	0.00%
	 4 17%

2b. 30 YR FRM vs. 1/1 ARM

Our loan production is about \$5 million per month behind budgeted goals. We want to make up this volume this next month and have decided it will come from either our 30 Yr FRM or our 1/1ARM. How do we decide which product to promote?

	30 YI	R F	RM			
	Balance		Rate		Expense	
Base Case	\$5,000,000	x	6.38%	=	\$318,750	
Alternative Strategy	\$10,000,000	X	5.90%	=	\$590,000	
Difference	\$5,000,000				\$271,250	
Marginal Yield	(Δ yield) / (Δ bala	ances)			5.43%	
The MARGINAL yield on our new \$5M is 5.43%, 62 bp below our risks/costs.						

1/1 ARM						
	Balance		Rate		Annualized Expense	
Base Case	\$1,000,000	x	4.36%	=	\$43,560	
Alternative Strategy	\$6,000,000	X	4.34%	=	\$260,400	
Difference	\$5,000,000				\$216,840	
Marginal Yield	(Δ expense) / (Δ	balan	ces)		4.34%	
	The MARGINA 4.34%, or 01	AL yie bp abo	ld on our n ove our risk	ew \$51 s/costs	M is 5.	

3b. Loan market segmentation

Your auto loan volume has been dropping over the past 3 months and the obvious culprit has been another lender in your marketplace that's beating your rates. Your indirect rates reigned supreme for the past 12 months, now this upstart has bested you by 50bp. Your lending VP wants to drop rates and match them so you can return to previous volumes. Let's do the math.....

3b. Loan market segmentation

	Wholesale instrument
Auto paper ABS	2.76%
	Retail equivalent
Credit Risk Adjustment	0.40%
Servicing Cost Adjustment	0.70%
Other Risk Adjustment	0.00%
	3.86%

Our rate is at 4.50%, we're beating the benchmark by 64 bp. Looks like a loan that's priced to cover its risks and costs.

	Balance		Rate		Annualized Expense
Base Case	\$2,500,000	x	4.50%	=	\$112,500
Alternative Strategy	\$3,500,000	X	4.00%	=	\$140,000
Difference	\$1,000,000				\$27,500
Arginal Yield	(Δ income) / Δ ba	alances	;)		2.75%



3b. Loan market segmentation

- Risk-based lending allows credit unions to separate price-sensitive consumers from non-price-sensitive consumers.
- Creating a benchmark pricing approach documents the reason for the different prices between A credits and C credits
- If you're not offering your A members the best rate in the market, someone else will

	Balance		Rate		Annualized Expense
Base Case					
New Autos	\$10,000,000	X	5.25%		\$525,000
Alternative Strategy	1				
New Autos - A	\$7,000,000	X	5.00%		\$350,000
New Autos - B	\$2,000,000	X	5.50%		\$110,000
New Autos - C	\$1,000,000	Х	7.50%	=	\$75,000
Total	\$10,000,000				\$535,000