

Connect to the conference call,1-888-394-8197, pass code 775629

 Problems connecting, call Plansmith at 1-800-323-3281 and ask for Danielle

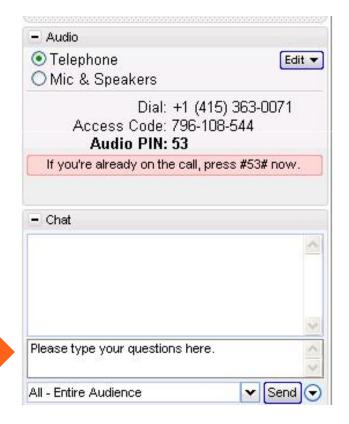


"BEST PRACTICES" BUDGETING BOOT CAMP: PRICING MODELS



Click here to minimize the Control Panel.





Click here to type in your Questions.



Pricing Models (Offering Rates)

Offering Rates or Pricing is perhaps the **most important** assumption in an ALM Model. It can also be the most difficult to develop as one needs to consider **future events**.

All interest bearing accounts on the balance sheet require a Pricing Model!

Your Compass Model Needs to be told how each Product will Behave now and under Different Rate Environments.

		EOM Balance	New Balance	Offering Rate	Total Maturities	Total Maturities Xrate	Interest	Yield	Average Balance
2011		Manual	[User Edit]	Manual					[User Edit]
	Dec	9,948					53,786	6.17	10,256
2011	Jan	10,508					61,467	7.03	10,302
	Feb	9,933					55,217	7.13	10,090
	Mar	9,170					56,544	7.11	9,365
	Apr	7,971					52,237	7.65	8,308
0.	May	7,950					48,479	7.14	7,991
0.00	Jun	7,713					45,842	7.18	7,771
0.00	Jul	7,623				EOM Yield:	43,823	6.87	7,514
0.00	Aug	7,559	400			6.74	45,157	7.01	7,581
	Sep	7,559	1,489	5.25	1,489	6.83	40,941	6.59	7,559
3)	Oct	7,559	880	5.25	880	6.34	40,873	6.37	7,559
2)	Nov	7,559	662	5.25	662	6.74	38,735	6.23	7,559
3	Dec	7,559	942	5.25	942	6.55	39,091	6.09	7,559
2012	Jan	7,559	309	5.25	309	6.97	38,253	5.97	7,559
3	Feb	7,559	271	5.25	271	7.34	35,352	5.90	7,559



PRICING ASSUMPTION DEVELOPMENT

Procedures for Identifying Behaviors

Review with a Group

- ALCO
- Deposit Pricing Committee

Review Past Pricing Behaviors

Two good reasons to do the research:

- Makes creation of the models much easier
- You'll have documentation to support the assumption

Where Should We Start?

Term	Interest Rate	APY"
3 Months	0.40%	0.40%
6 Months	0.80%	0.80%
9 Months	0.90%	0.90%
12 Months	1.09%	1.10%
18 Months	1.19%	1.20%
24 Months	1.29%	1.30%
30 Months	1.39%	1.40%
3 Years	1.59%	1.60%
4 Years	1.73%	1.75%
5 Years	2.13%	2.15%

Gather historical pricing information

Interest Rates from Federal Reserve website:

http://www.federalreserve.gov/releases/h15/

	Mar-06	Jun-06	Jul-06	Jun-07	Aug-07	Aug-07	Nov-07	Mar-08	Jun-08	Aug-08	Dec-08	Jan-09	Apr-09	Jul-09	Oct-09
6 Mo CDs	4.25	4.6	4.85	4.7	4.8	4.8	4.4	2.75	2.75	2.75	1.95	1.95	1.85	1.7	1.6
6 Mo CDs	4.05	4.4	4.65	4.5	4.6	4.6	4.2	2.55	2.55	2.55	1.75	1.75	1.65	1.5	1.4
Prime	7.53	8.02	8.25	8.25	8.25	8.25	7.50	5.66	5.00	5.00	3.61	3.25	3.25	3.25	3.25

Where Should We Start?

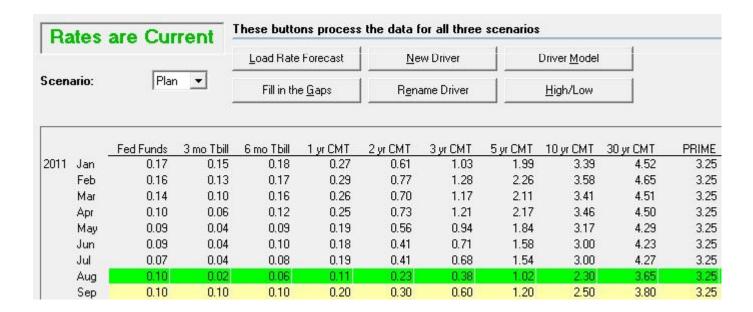




Procedures for Model Set Up

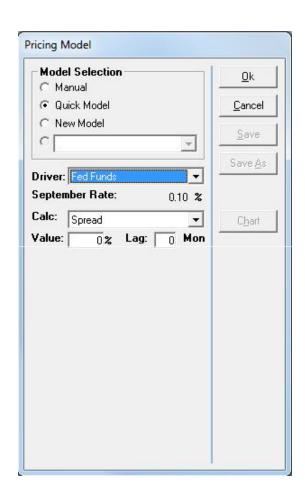
Driver Rates

- Make sure Rate Forecast is updated
- Pricing Model = Link to Driver Rates



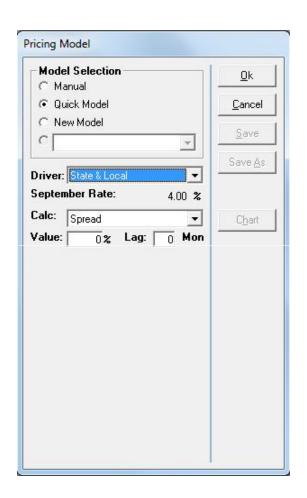
Model #1 - Fed Funds Sold

Parallel Relationship to Driver Rate



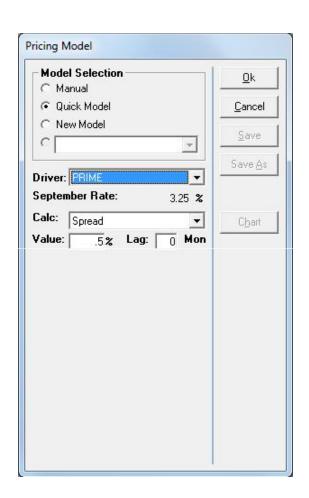
<u>Model #2 – Municipals</u>

Parallel Relationship to Driver Rate



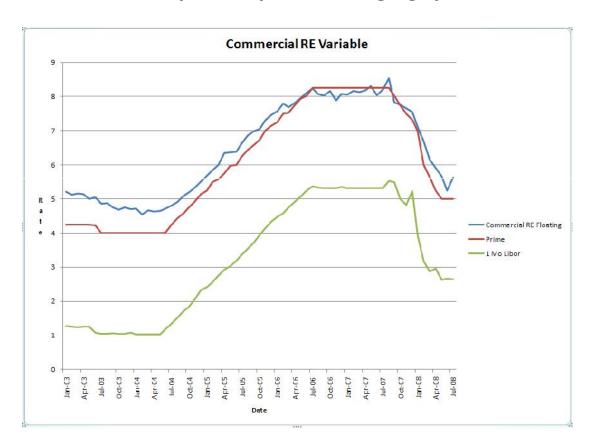
<u>Model #3 – Commercial Var</u>

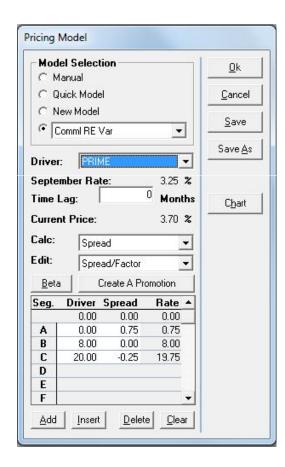
Parallel Relationship to Driver Rate



Model #4 – Commercial RE Var

Note spread going negative after Prime reaches 8% New Model option captures changing spread relationship

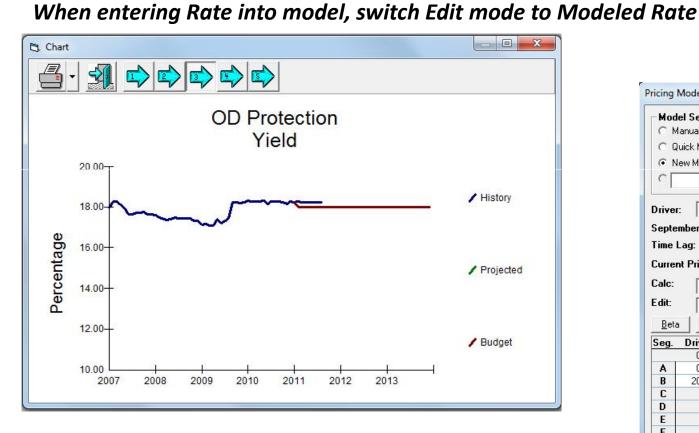


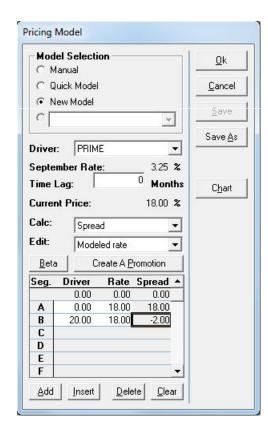


Model #5 – OD Protection

Note constant rate in history

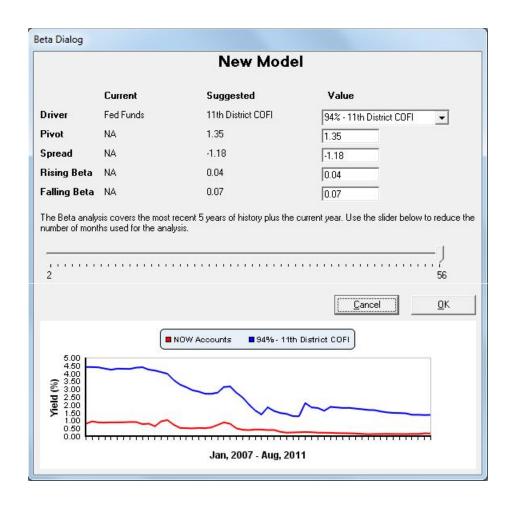
Driver Rate used immaterial



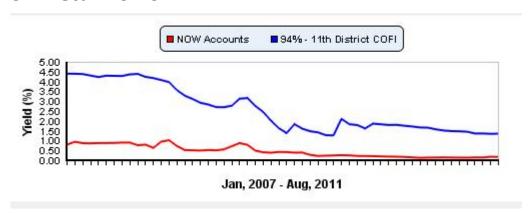


Model #6 – NOW

Rate Insensitive?
Administered Rate?
Use History for Beta?

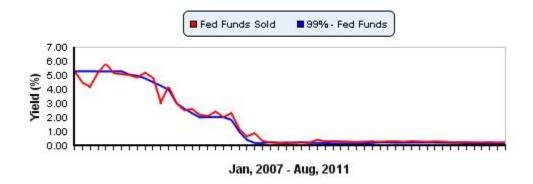


How Beta Works:



		New Mode	el .
	Current	Suggested	Value
Driver	Fed Funds	11th District COFI	94% - 11th District COFI
Pivot	NA	1.35	1.35
Spread	NA	-1.18	-1.18
Rising Beta	NA	0.04	0.04
Falling Beta	NA	0.07	0.07

When NOT to use Betas:

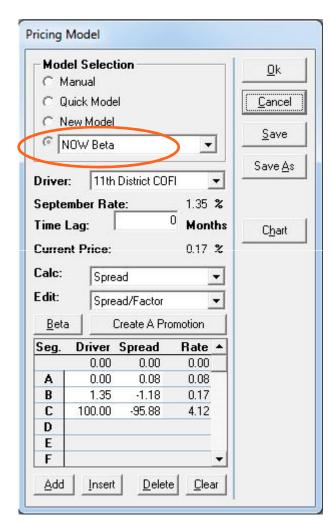


	Current	Suggested	Value				
Driver	Fed Funds	Fed Funds	99% - Fed Funds ▼				
Pivot	NA	0.10	0.10				
Spread	NA	0.11	0.11				
Rising Beta	NA	6.19	6.19				
Falling Beta	NA	1.57	1.57				

Model #6 – NOW

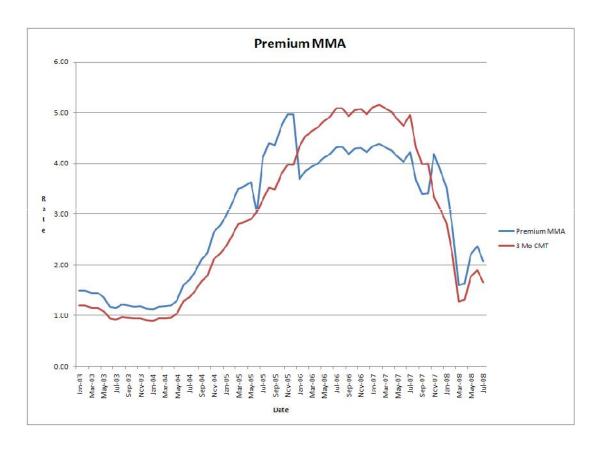
Using Betas:

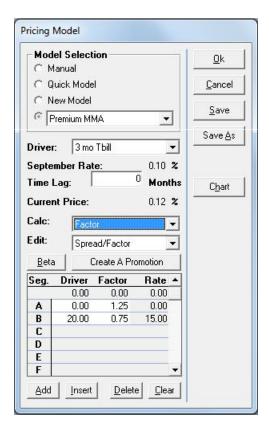
When using Plansmith's Beta, save with "Beta" in the model name.



Model #7 – Premium MMA

Factor Models use a percentage of the Driver Rate

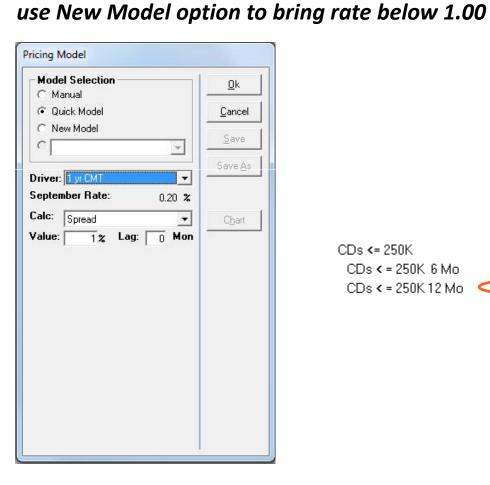


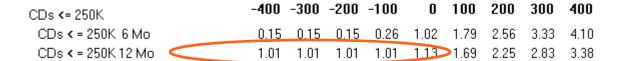


<u>Model #8 − CDs < = 250K 12 Mo.</u>

Rate Model may need to account for Driver going to zero

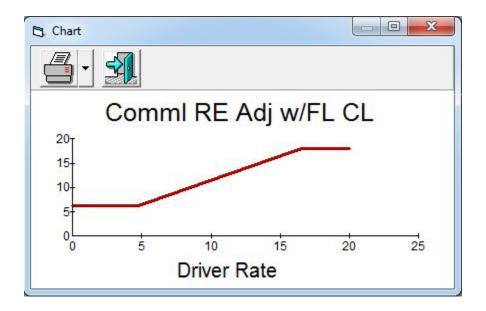
Current Price at 1.20, Quick Model floors out at 1.00. Reasonable? If not,



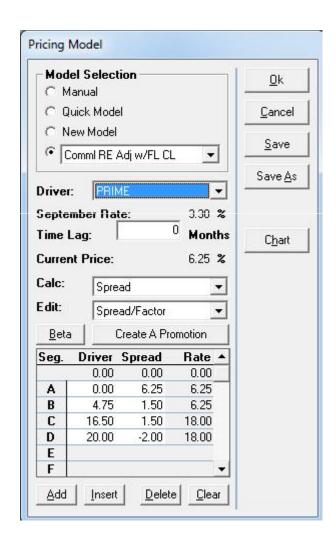


Model #9 - Comml RE Adj W/Floor/Ceiling

Adjustable Rate Product Models with Floors can be set up in Projections screen



Avg Floor/Ceiling	6.27/18.00
Weighted Avg Mat	110



Repricing Models

Model #10 - Comml RE Adj W/Floor/Ceiling

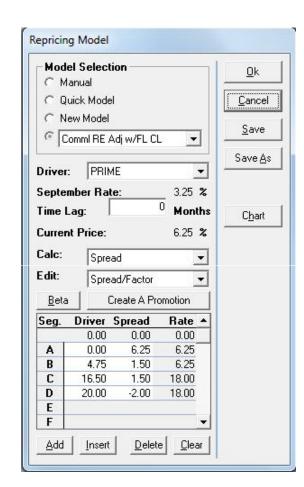
Adjustable Rate Products should have contractual reset rates

Use average spread to index

Periodic Caps, Max Rate Adjustments handled by Account Wizard

Floors/Ceilings Modeled as in Offering Rate Models

Multiple indices used? Follow Financial Compass breakout rule



Repricing Models

Model #10 - Comml RE Adj W/Floor/Ceiling

Repricing Rates report available now

Use to review repricing assumptions



	Sep 2011	Oct 2011	Nov 2011	Dec 2011
Assets	2011	2011	2011	2011
Securities				
U. S. Agencies				
US Agencies - Step Ups	1.25	1.25	1.25	1.32
Mortgage-Backed Securities				
MBS - Adjustable GNMA	3.20	3.20	3.20	3.20
Avg. Securities	1.25	3.20	0.00	0.00
Loans				
Commercial				
Commercial Loans - Adj.	3.30	3.30	3.30	3.30
Real Estate				
Commercial				
Commercial RE - Adj w/FL CL	6.25	6.25	6.25	6.25
Avg. Real Estate	6.25	6.25	6.25	6.25
Avg. Loans	5.85	6.25	6.25	6.25
Average Rate on Assets	1.86	6.22	6.25	6.25

<u>Model #11 – Commercial Var w/Floor</u>

Driver Models

Useful for Branch (SBU) set up

Necessary for Variable or Floating rate accounts with Floors/Ceilings

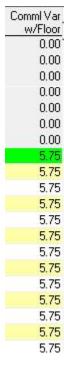


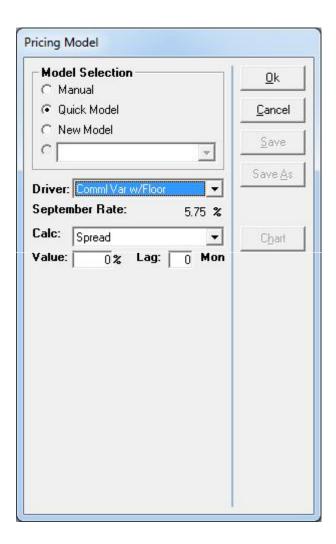


Driver Model Linked to Other Driver = Auto Update

Needs floor/ceiling and spread

Apply Driver Model to Account with Zero Spread





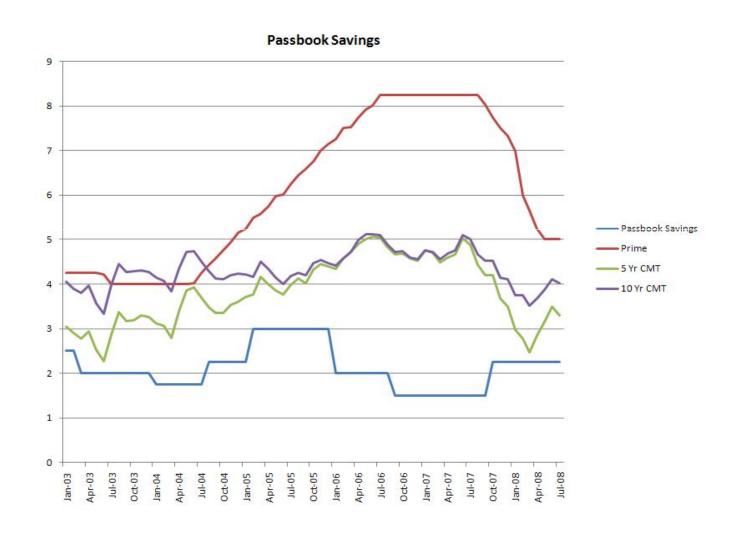
 -400
 -300
 -200
 -100
 0
 100
 200
 300
 400

 Commercial Loans - Var w/Floor
 5.74
 5.74
 5.74
 5.74
 5.74
 5.74
 6.29
 7.30
 8.30

After Driver Model is applied, note behavior in rate shock:

- Prime @ 3.25 and shocked down = floor holds
- Prime @ 3.25, shocked up to 4.25 + 100 BPS, loan rate = 5.25 (below floor)

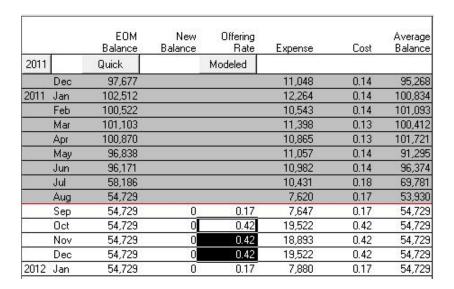
What if product isn't linked to, or hasn't followed an index?

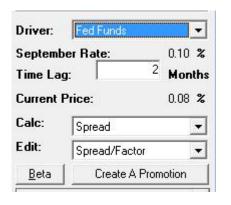


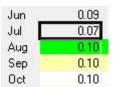
Time Lags:

Reference Driver from previous month

Not considered in Rate Shock analysis

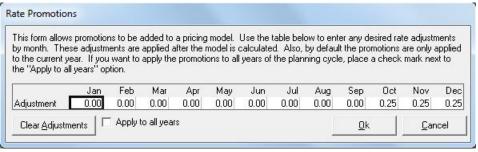






Promotions:

If applied to current month, then considered in Rate
Shock

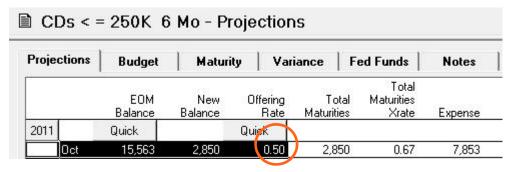




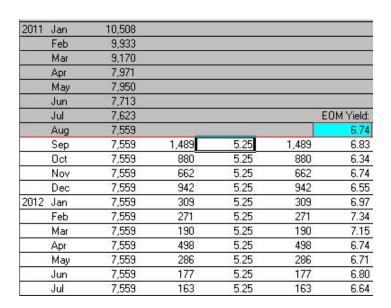
- Review plan regularly
- ✓ Make adjustments for changes in strategy/direction
- ✓ Note changes in interest rates that may warrant change to models.

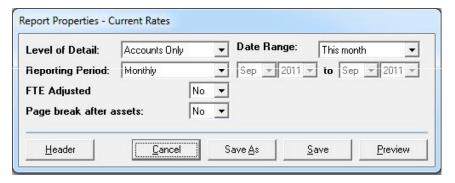






- ✓ Check on Current Rate/Product Price Monthly or Quarterly
- ✓ View Offering Rates Looking Forward
- ✓ Focus on Larger Accounts = Most Impact



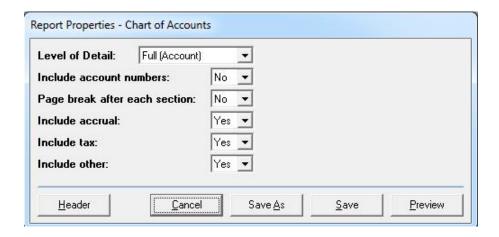


✓ Review floor data and models



Commercial Loans - Var w/Floor Actual/365

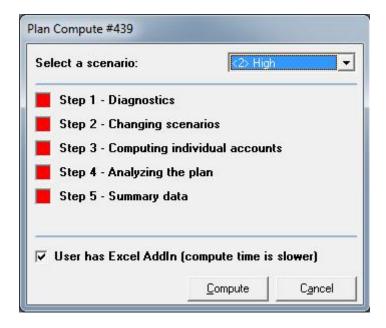
Taxable Floating Loan - New Amortizes over 120 months - Wtd Avg Floor = 5.74%
- Wtd Avg Ceiling = 50.00% - Downloads Floors/Ceilings - Risk Based Capital = 100%

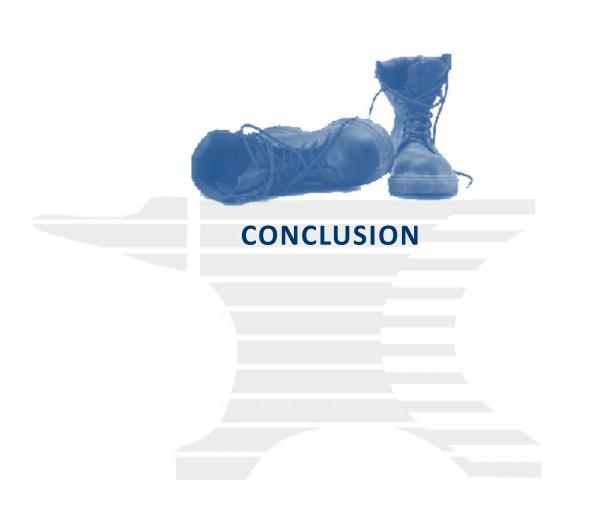


How do you know if assumption is reasonable?

- Rate Shock Yield Report
- Compute on High/Low Scenarios and View Offering Rates

	-400	-300	-200	-100	0	100	200	300	400
NOW Accounts									
NOW Accounts	0.00	0.00	0.00	0.00	0.30	1.30	2.30	3.30	4.30





- Pricing Assumptions can get complicated Don't let them!
- > Devise process to create and review assumptions and be consistent!
- Document your efforts!



THANK YOU FOR ATTENDING

"Best Practices" Budgeting Boot Camp Session #2: Pricing Models

1.800.323.3281 support@plansmith.com