Capital Markets Group

Community Bank Views – Using Bloomberg YT BAM Screens

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Bloomberg terminals have long been the standard in the financial services industry. Most attribute this longevity to Bloomberg's commitment to product innovation and enhancement. Below, I will highlight a recent improvement made in the Mortgage Backed Securities (MBS) arena. For the longest time, the Bloomberg Yield Table (YT) has been considered the industry benchmark when estimating mortgage yields.

A common question is: Where do these prepayment estimates come from?

The YT screen relies on prepayment estimates from up to 9 primary broker dealers and computes the median of those inputs. It is possible to view each individual contributor on a **VALL** screen. The shortcomings of this method are likely obvious: too few contributors, wide ranging contributions, and stale data.

Good news! What was originally the Barclays Prepayment Model has been incorporated into Bloomberg and rebranded as the Bloomberg Agency MBS Index Prepayment Model (BAM). <u>BAM utilizes a model (instead of contributors) to estimate mortgage yields.</u> Simplistically, BAM assumes prepayments come from five subcomponents:

- Rate/term refinancing
- Housing turnover
- Cash-out refinancing
- Curtailments (all voluntary prepayments)
- Delinquency buyouts (involuntary prepayment)

Below you will find two yield tables for a Fannie MBS FN AS7542, one is the traditional YT page (Fig 1) and one is YT BAM (Fig 2).

Bloomberg YT Page - Figure 1



Bloomberg YT BAM Page - Figure 2

FN AS75	542 M	tge			v	Acti	ons	•		Setting	s								Y	ield T	able
FNCL 3.5	4(30	4)43	CUSIP	313	8WHL	Y6 Po	ol Leve	Į.								As o	01/2	020 💌			
1/2020	143P	8.60	В		Traits		(L, 30	/360	Coupon		3.50%	Ма	turity		7/	1/46	FL	7%	2016	100%
ЗМо	155	9.3			06/01	/2016	8	31,91	5,092	LTV/HLT	V	74/61	Ac	crual		2/1-	2/29	MI	6%	2015	0%
6Mo	168	10.1			1/1/2	020	5	6,73	3,126	MAXLS		110,000) Ne	xt Pay		3/2	5/20	TX	6%		
12Mo	162	9.7			Factor		0	.6925		WAOLS		100,122						IL	6%		
Life	197	7.9			# Loan	is			630												
1) Price-to-Yield																					
Settle	02/:	12/2		7.6	6 CPR		8.2 (PR	9	.3 CPR		11.0 CF	PR	16	5.5 C	PR	23	.5 CP	R	29.7	CPR
Indices			C+3	300		C+20	0		+100		0	O+		C-100			C-200		C-	300	
Vary) :	100%	BAM	10	0% B	AM	100	% BAM		100% BA	MΑ	100	ე% B	АМ	100	% BA	М	100%	BAM
Price	10	06-12		2	.5578		2.52	202		2.4524		2.349	28		1.96	93		1.435	1	0	9240
	10	70 12		_			2.5.	-02		2.1321		2.51	,0		1.70	,,,		1. 133		0.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Avg Life	e				8.07		7	.72		7.16		6.4	45		4.	69		3.3	8		2.64
Mod Duration					6.78		6	.53		6.13		5.6	60		4.	.27		3.2	2		2.60
Prin Wir	n D	ate	3,	/20-	5/45	3/2	0-5	/45	3/20)-5/45	3,	/20-5/4	45	3/2	0-5/	45	3/20)-5/4	5 :	3/20-	5/45
I Spread ▼					99			96		91	_		84			53			1		-50
Jan20	Dec	Nov	0ct	Sep	Aug	Jul	Jun	May	Apr	Mar	Feb	GOVT(I)	6M	1Y	2Y	3Y	5Y	7	Y 10Y	30Y
143P	159	162	223	164	156	100	163	155	251	144	121	10:59	1	.57 1	.51	1.44	1.42	1.44	1.5	4 1.62	2.07
8.60	9.5	9.7	13.4	9.9	9.3	6.0	9.8	9.3	15.0	8.6	7.3	Disc 30	0/36	50			5Y	99-2	21+	7Y	99-24

The output of the two models varies significantly (2.08% yield vs 2.35% yield). The primary reason for this is the LOW LOAN BALANCE feature on this security. **The traditional YT page does not take this into account while YT BAM does** include this collateral characteristic in their analysis.

It is also possible to incorporate user-defined prepayment expectations by building vectors (Fig 3). The blue represents the base case BAM result (10.9cpr). Vector "100 V3" in red has user defined speeds of 20cpr for 6 months then 15cpr for the next 6 months, ultimately prepaying at 10cpr for the rest of the bond's life. The "100 V3" vector results align with the base-case BAM, illustrating the robust scenarios contained in the BAM model. There is not necessarily a correct way to incorporate vectors. Their use is the ability to stress test potential outcomes.

Bloomberg YT BAM Page with User-Defined Vector - Figure 3



Using a diverse and varied approach when analyzing mortgage securities is important given how different your results can be. With BAM, this is now much easier than before. If you would like to discuss this more, please contact your CMG Investment Representative.

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