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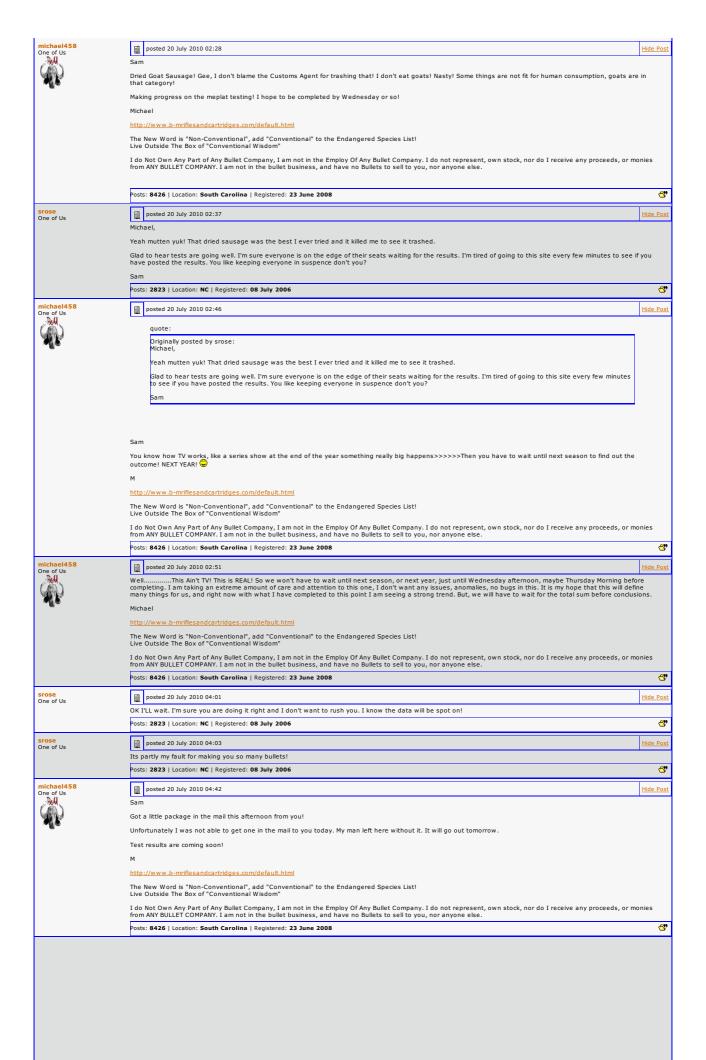


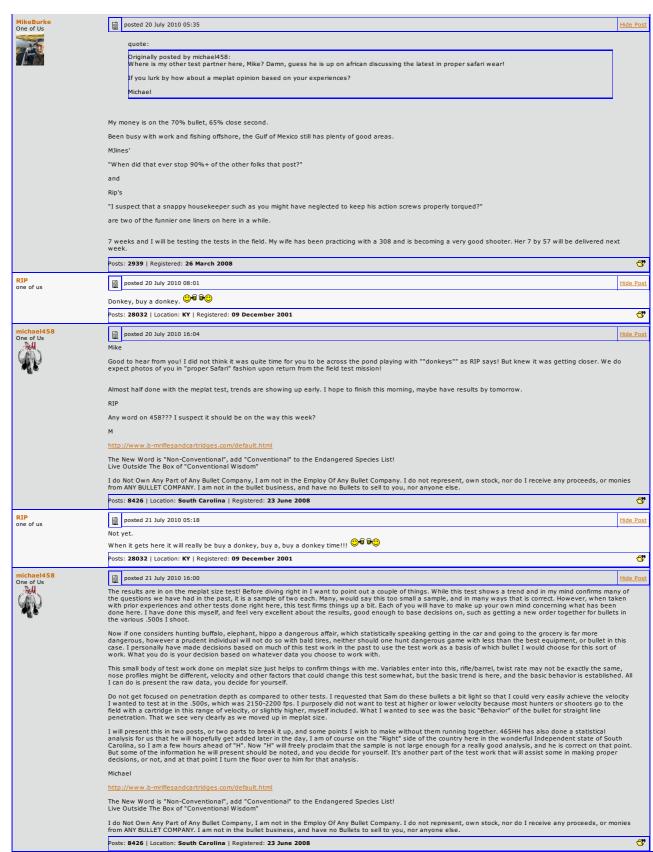
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michael458 One of Us



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Now without further BS let's get the show on the road!

This post will show Round Nose, 50% meplat, 55% meplat, and 60% meplat. Within each test the bullets are nearly exact, but from one jump to the next there is a slight difference in weight, and a slight difference in velocity as we move forward. These differences are not significant, and do not effect the overall behavior. Sam did a wonderful job on getting these bullet ready for this test. Thank you Sam for making this possible.

First the Round Nose to start things off.



Next the 50% Meplat.





60% Meplat



Now for my part I look at "Straight Line Penetration", that is about all I am concerned with. At what point does that bullet start to behave poorly by veering off course or tumbling? The rest is really a moot point to me. "Terminal Stability" is what we are after, or what I am chasing. I want stability so that I know I can count on that in the field, as much as allowed when other variables are introduced! As stated a 1000 times, if it works and is successful in the field.

As we work our way up the meplat ladder we see a trend starting to appear, added "Terminal Stability". Even a jump from RN to 50% made a difference, even if they overlap a bit in straight line penetration, we see the two bullets start to come closer together. The RN being unstable showing a wide difference in straight line penetration, the 50% meplat starting to show closer numbers with straight line penetration. At 55% we see this come even closer, and at 60% straight line penetration takes a huge jump in penetration depth. In addition one must look at the total amount of "Off Course Veering" from 50% to 60% meplat. At 50% and 55% we see from 2" to 4" off course at the end of penetration, most of those at 4" actually left the test medium to the sides or to the bottom. With 60% meplats size we see a 50% and 10% ratingly in penetration, and in addition at the end of that total penetration, and in addition at the end of that total penetration we see 1" and 2" off course! I find this significant. No doubt about a trend in my mind. But I will let you judge this for yourself.

Michae

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Posts: 8426 | Location: South Carolina | Registered: 23 June 2008

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Very interesting.

I was thinking that the short bullet length might stabilize at 60% meplat.

And at 38" average straight-line penetration, and only off by a max of 2" at the end, it did sufficiently well for most reallife applications. But not good enough for me. After all, one of the purposes of a solid is a follow up shot on a fleeing buffalo, rump to boiler room.

Interesting. so . . . drum roll . . . Michael is about to show us the 65% . . .

"A well-rounded hunting battery might include: 500 AccRel Nyati, 416 Rigby or 416 Ruger, 375Ruger or 338WM, 308 or 270, 243, 223" -- Conserving creation, hunting the harvest.

**♂**°



posted 21 July 2010 17:08

Hide Pos

The second part of the test with the 65%, 70%, 75% and 80% meplat for caliber showed a significant gain in "Terminal Stability".



70% Meplat



75% Meplat





Of little doubt we achieved "Terminal Stability" with the 65% meplat for caliber. Both were found dead straight, nose forward. Straight line penetration made another increase over the 60% meplat, however we note that total penetration was near identical on average. With the 60% just not being quite as stable as the 65% meplat.

At 70% meplat for caliber "Terminal Stability" and depth of penetration was basically equal with the 65% meplat. This was the only true anomaly I encountered in the test with the 1 70% that penetrated to 44 inches. All test medium has it's faults, my is not excluded. This one bullet found the binding of a magazine that I insert in the mix, one edge of the meplat was damaged somewhat, and the other edge had a clear outline of a staple across the meplat. It is my assertion that this caused the very slightly less penetration of the 1 70% meplat bullet. It did not effect straight line penetration at all, and the bullet was found nose dad straight. Just lost a couple of inches over it's brother, and I believe that to be the culprit. Here again, a larger sample size would have sorted that out, yes I know, but the trend is evident regardless.

Here is one of the questions that I thought I knew the answer, but not 100% confident, now I am confident, even with such a small sample size. At 75% we see a definite reduction in total straight line penetration. Meaning, we found the meplat size where we start to limit total penetration! Terminal Stability is 100%, no veer, nothing but dead straight penetration and both bullets found nearly side by side, pose straight forward. This is the same behavior as we saw in Agent 7's bullet. In no way is this a detriment, with one exception, this is the point at which my beloved Winchesters started to balk at feeding the large meplat, catching at the bottom of the feed ramp before jumping under the extractor.

Again at 80% meplat for caliber we see yet another reduction in total penetration, which even further confirms in my mind that we can in fact limit penetration if that should be desired by using a larger meplat size. Again, 100% terminal stability, dead straight line penetration, both found nose forward.

Something that also should be pointed out, I observed (I should have actually measured) as we increased meplat size we also increased the impact trauma to target with larger wound channels and destruction of test medium. I wished I had taken the time to get actual measurements, but that is hind sight now, you will just have to trust me on this one.

Well guys there it is. Agree, disagree, whatever you choose to do, that is it in a nut shell and reported exactly as I found it, no sugar coating. I think this basically confirms prior test work done on the subject, and I know for a fact that this could be repeated over and over, basic results on behavior would be the same.

Everything done with a barrel of 1:12 twist rate, which no doubt assisted the bullets of less than 65% meplat. A slower twist rate I am sure would have showed the less than 65% meplat far less stable than they are at 1:12.

Thanks to Sam for making the bullets, thanks to 465HH for his collaboration in the effort and his upcoming statistical conclusions, and all the efforts all of you put into this and the input you give. Not one of us has all it he answers, but as a group we have discovered much and continue to do so! Thanks to all who push me a little bit from time to time to make the effort, otherwise I might get lazy! HEH.

## Michae

## $\underline{\text{http://www.b-mrifles} and cartridges.com/default.html}}$

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Posts: 8426 | Location: South Carolina | Registered: 23 June 2008

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srose One of Us

posted 21 July 2010 17:30

You put the 70% up twice!

<u>Hide Post</u>

Posts: 2823 | Location: NC | Registered: 08 July 2006

**♂**°





posted 21 July 2010 1	7:55	r		_				1	1
		Menlat Tes	t from Round Nose to 80	% Menlat of Cali	hor				
				70 Mepiat of Cal	DEI				
		.500 Calib	er Solids Made by SRose			Muzzle	Impact	Impact	
			Bullet	% Meplat		Velocity	Velocity	Distance	Twist Rate
			415 gr Round Nose	0	# 1	2221	2122	22 yds	1:1:
			413 gi Roulia Nose	0	# 2	2221	2132	22 yds	1:1:
			419 gr Flat Nose	50.00%	# 1	2205	2096	22 yds	1:12
					# 2			22 yds	1:12
			421 gr Flat Nose	55.00%	# 1 # 2	2204	2116	22 yds	1:12
					# 2			22 yds	1:14
			42C on Flat Name	60.00%	ш 1	2104	2112	22 yds	1.11
- 1	1 1 1	-	426 gr Flat Nose	60.00%	# 2	2194	2113	22 yds 22 yds	1:12
			429 gr Flat Nose	65.00%	# 1	2182	2099	22 yds	1:12
					# 2			22 yds	1:12
1			7 7	-		100	$\sim$	17.2	
	1/2 1/2		430 gr Flat Nose	70.00%		2180	2090	22 yds	1:12
					# 2			22 yds	1:12
			435 gr Flat Nose	75.00%	X2	2179	2080	22 yds	1:12
					v 0	2470	2227	00 1	
			438 gr Flat Nose	80.00%	X2	2170	2067	22 yds	1:12

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Posts: 8426 | Location: South Carolina | Registered: 23 June 2008



posted 21 July 2010 18:31

Just checked out your website - absolutely fantastic stuff there

NRA Lifer; DSC Lifer; SCI member; DRSS; AR member since November 9 2003 STILL waiting for my Taksdale double or a refund

Don't Save the best for last, the smile for later or the "Thanks" for tomorow

Posts: 3448 | Location: In the Shadow of Griffin&Howe | Registered: 24 November 2007

Hide Pos

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posted 21 July 2010 21:34

RIP
No worries, I am now behind just since this morning! Excellent news about the 458 on the way home finally! I will be on pins and needles till you get a photo posted on the B&M Thread! Hopefully before you spray paint it, or beat it against the concrete wall, or some other magic "RIP Aesthetic" that I have seen in the past!!!! LOL. Very good! I am looking forward to the Barnes Buster test in that 1:10 barrel of yours!

As for the test work, yes, I think we are in total agreement.

Yes, I did make mention of the increased trauma inflicted as we increased meplat size under the second post with the 65% to 80% meplats. I wish that I had taken time now to actually measure more in depth on that subject, but I did not do so, hind sight is great and I was stealing an hour here and there to get the work done. I observed it, I noted it, but did not measure it. The trauma showed up right from the start and continued to increase with each 5% more meplat. Of course with 75% and 80% having the most trauma up front, slowing down after about 10-12 inches.

"Bastard Bullet Works" "69% meplat" No need to say who that come from, we all know!

Boomy, sometimes...

No need to worry about new tests, already in the works and being planned now. Sam will not let me get lazy at all. Just as important as anything, Sam has made and sent some wonderful cup points and they have 65% meplats, weigh in the same range, 430 grs, and will be shot with the same gun and load, so these will fit into the test work done above nicely and give us an idea of just how much the cup point effects penetration. We already have some data comparing the North Fork 450s. This will further that research.

Sam has also sent new and improved 9.3s in 250 gr and 225 grs to test.

I have the "Srew Bullets" loaded and ready, small meplats on those as I recall. Also a different .500 caliber nose profile, and heavy 500 gr bullet, with a LARGE MEPLAT--but very workable, forget the size exactly as I am not in front of my notes just now.

Sam and I are also in the works of planning a 577 test, and we hope that comes to happen next week sometime, as our days allow. That will be a hammer!

So while we complete and discuss our current meplat test, while 465HH gets his glasses on straight so he can capture all the data for the "statistic report", we have plans to continue, and I still have about 1500 lbs of test medium (Dry Weight) to work with!

Sam cuts me no breaks and no slack, new and wild designs coming in each week!

He has already worn out several sets of bastard files on these!

Michael

http://www.b-mriflesandcartridges.com/default.html

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