

This topic can be found at:  
<https://forums accuratereloading.com/eve/forums/a/tpc/f/4711043/m/2861098911>

Gerard

09 March 2010, 22:19

Terminal Bullet Performance

Michael,  
 Expansion of the meplat starts at impacts around 2300fps. Obviously expansion depends on the SD of the bullet and how fast it is slowed down in target. Mainly, the expansion enhances the qualities that make for straight line penetration rather than detract from it.

I have access to a website that is needing some content. If you want to post the spreadsheet there as a download, you are welcome. Mail it to me and I will get it up. In fact, anyone who has an article or item of interest to put up, mail it to me and we can create a category for it, if it needs it, and place it.  
<http://www.shooter.co.za>

capoward

09 March 2010, 22:46

Boy it's been a busy day already.

Ok, regarding the NF 500gr .474 FN meplat; I thought as it had performed so efficiently from Mike's DR with its 18.9" twist rate that perhaps we needed to dig a little deeper. So shortly after Mike posted his testing results I inquired directly on the NF website and asked if they could identify some specific information relating to their CPS and FPS copper solids for me.

This past Sunday I received the NF response...many thanks to them for their customer service! ☺ The meplat as stated by NF is 0.396" diameter. And we have Mike's measurements

quote:

Originally posted by Mike70560:  
 I checked it again. Used black ink and stamped it on white paper. Measured .335-.336  
 83% equals .393 and that is the measurement at the edge of the bevel (which is slightly rounded) on the side of the bullet.

which would indicate the NF meplat dimensions include the edge bevel – perhaps a CNC programming dimension...? No idea.

Which methodology is better, purely stamped flat surface or inclusion of bevel? Do we need to capture both specifications? Quen sabe?

Now, Doc M's latest greatest updated data capture sheet...finally figured out how to get it posted so here are the four separate sheets:

Meplat measurements taken by ink stamping the meplat on paper.														
<b>.310 Caliber Solids &amp; FMJ Tests</b>														
Bullet	Diameter	Meplat	% Meplat	Length	Bearing	Surface %	Bearing	SD	Muzzle Velocity	Impact Velocity	Impact Distance	Twist Rate	Straight Penetration	
<b>.500 Caliber Solids or FMJ Tests</b>														
550 SSK	0.499	0.33	66.00%	1.3325	0.505	58.00%	0.314		2220	2173	22 yds	1:12	68	
FN									2212	2165	22 yds	1:12	64	
3/8/2010--Special Note: don't believe that 1:12 is stabilizing this bullet as well as it could be. Right at the end of penetration it goes unstable.										0	2242	17 ft	1:12	63
									0	2205	17 ft	1:12	63	
									2190	2165	22 yds	1:12	63	
									2194	2159	22 yds	1:12	63	
512 RN SSK	0.499	0	0	0	0	0	0.294		2048	0	50 yds	1:18	25	
									2032	0	50 yds	1:12	38	
Average of Many Tests														
510 SSK	0.499	0.33	66.00%	1.2315	0.645	51.00%	0.291		2300	2225	22 yds	1:12	64	
FN									2050	0	22 yds	1:12	62	
									2050	0	48 yds	1:12	62	
Average of Many Tests										50 B&M	2050 to 2100 fps	Muzzle		
485 SSK	0.499	0.3	60.00%	1.2315	0.408	33.00%	0.277		2120	2088	22 yds	1:12	58	
FN									Average of Many Tests				50 B&M	
455 JDJ	0.499	0.337	67.00%	1.1305	0.365	32.00%	0.281		2142	2090	22 yds	1:12	56	
FN									Average of Many tests				50 B&M	
									1819	1763	22 yds	1:12	43	
									Average of Many tests				50 B&M Super Short	
									1945	1858	22 yds	1:12	42	
									50 B&M Alaskan X2					
400 Barnes	0.5	0.29	58.00%	0.9365	0.45	48.00%	0.229		1937	1851	22 yds	1:18	30	

Buster										Average of 2				
										1925	1847	22 yds	1:12	58
										Average of 2				
										2158	2170	22 yds	1:12	45
										Average of 2				
470 Caliber Solid and FMJ Tests										Muzzle Velocity	Impact Velocity	Impact Distance	Twist Rate	Straight Penetration
Bullet	Diameter	Meplat	% Meplat	Length	Bearing Surface	% Bearing	SD							
500 Wood FMJ	0.4725	0	0	1.332	0.625	47.00%	0.317			2172	0	20 yds	1:10	20
										Average of 3 rounds-Very consistent.				
500 Barnes RN	0.4725	0	0	0	0	0	0.317			2147	0	48 yds	1:10	24
										Average of 3 rounds-Very consistent.				
500 Barnes Banded	0.473	0.316	67.00%	1.4385	0.43	30.00%	0.317			Not Tested				
500 Trophy Bonded	0.474	0.275	58.00%	1.307	0.125	10.00%	0.317			Not Tested	Almost no bearing surface????? Old Trophy Bonded bullets			
458 Caliber Solid or FMJ Tests										Muzzle Velocity	Impact Velocity	Impact Distance	Twist Rate	Straight Penetration
Bullet	Diameter	Meplat	% Meplat	Length	Bearing Surface	% Bearing	SD							
550 Wood FMJ	0.458	0	0	0	0	0	0.374			0	2146	22 yds	1:14	28
500 Wood FMJ	0.458	0	0	1.389	0.48	35.00%	0.341			2100	2051	22 yds	1:14	31
										1827	1776	22 yds	1:14	24
500 Barnes Banded	0.456	0.3	66.00%	1.519	0.444	29.00%	0.341			2209	2180	22 yds	1:14	62+
										1815	1780	22 yds	1:14	62+
										Both Velocity Tests out the back of the box!				
							X2			1489	1453	22 yds	1:14	35-43
										Total 52-59				
							X2			2219	2148	22 yds	1:14	66

500 Nosler	0.457	0.275	60.00%	1.530	0.706	46.00%	0.341			0	2181	22 yds	1:14	62
500 Super Penetrator	0.456	0.28	61.00%	1.5765	0.245	15.00%	0.341			0	2180	22 yds	1:14	30
500 Rhino	0.456	0.28	61.00%	1.572	0.706	45.00%	0.341			0	2198	22 yds	1:14	58
480 Hornady DG5	0.4565	0.246	54.00%	1.332	0.586	44.00%	0.327			2157	2121	20 yds	1:14	31
475 JDJ	0.457	0.302	66.00%	1.469	0.216	15.00%	0.323			0	2140	20 yds	1:14	62
450 Barnes Banded	0.456	0.3	66.00%	1.371	0.363	26.00%	0.306			2227	2172	22 yds	1:14	56
										Average of Many Tests 458 B&M				
450 North Fork	0.457	0.314	69.00%	1.362	0.42	31.00%	0.306			0	2212	17 ft	1:14	53
							X2-Each			0	2160	22 yds	1:14	56
400 Wood Mono	0.457	0.317	69.00%	1.294	0.4	32.00%	0.272			0	2312	17 ft	1:14	50
							X2							
400 Barnes Buster	0.457	0.288	56.00%	1.076	0.603	56.00%	0.272			2017	1877	48 yds	1:20	28
										2051	1914	48 yds	1:20	23
										1828	1698	48 yds	1:18	23
										2031	1902	48 yds	1:14	33
										2043	1908	48 yds	1:14	34
330 Barnes Banded	0.456	0.3	66.00%	1.021	0.236	23.00%	0.225			2138	1937	48 yds	1:20	41
										2331	2281	22 yds	1:14	50

416 Caliber Solid or FMJ Tests										Muzzle Velocity	Impact Velocity	Impact Distance	Twist Rate	Straight Penetration
Bullet	Diameter	Meplat	% Meplat	Length	Bearing Surface	% Bearing	SD							
410 GSC	0.416	0.242	58.00%	1.51	0.234	15.00%	0.338			0	2144	17 ft	1:14	55
										0	2235	17 ft	1:14	38
										0	2527	17 ft	1:14	60
410 Super Penetrator	0.415	0.28	67.00%	1.536	0.279	18.00%	0.338			2310	0	22 yds	1:14	50
400 Hornady FMJ-RH	0.416	0	0	0	0	0	0.331			2107	2070	20 yds	1:14	31
										2293	2255	20 yds	1:14	28
400 Barnes	0.415	0	0	0	0	0	0.331			2421	0	22 yds	1:14	32

Round Nose													
400 Grand Siam	0.415	0.214	52.00%	1.305	0.545	42.00%	0.331		2417	2362	22 yds	1:14	64
									X2				
400 Barnes Banded	0.4155	0.25	60.00%	1.478	0.469	32.00%	0.331		2497	2430	22 yds	1:14	60
									Was 1 inch Off Course at 60 inches X2				
370 North Fork	0.4155	0.271	65.00%	1.3815	0.34	25.00%	0.305		0	2375	17 ft	1:14	59
									0	2340	22 yds	1:14	56
350 Barnes Banded FN	0.415	0.25	60.00%	1.3035	0.377	29.00%	0.289		2445	2285	46 yds	1:14	58
									Average Many Tests 416 B&M				
									0	2458	17 ft	1:14	58
									0	2127	17 ft	1:14	62
<b>.366 Caliber Solid and FMJ Tests</b>													
Bullet	Diameter	Meplat	% Meplat	Length	Bearing	Surface %	Bearing	SD	Muzzle Velocity	Impact Velocity	Impact Distance	Twist Rate	Straight Penetration
520 Wood FMJ	0.366	0	0	1.3995	0.765	55.00%	0.341		0	1872	17 ft	1:12	63
									0	2201	17 ft	1:12	63
									2315	2357	22 yds	1:12	73
									2448	2380	22 yds	1:12	64
286 Barnes Banded FN	0.365	0.175	48.00%	1.399	0.496	35.00%	0.305		0	2225	17 ft	Unknown	25
										2377	17 ft	Unknown	25
									2598	2528	22 yds	1:12	14

Jim 🤖  
 "Life's hard; it's harder if you're stupid"  
 John Wayne

**RIP** 09 March 2010, 22:49

[www.shooter.co.za](http://www.shooter.co.za)

Gerard,  
 Nice!

My work 'puter is not smart enough to block that one!  
 I might add that I have the Wingyro working on another 'puter ow and can calculate SF finally.  
 I believe you shared that years ago, and I just now got it working. It was a problem with my end on the hardware/software interface.

DocM,  
 I think you have found a home for your spreadsheets ... maybe more than one.  
 Since you have a South African wife, you ought to post on both sides of the pond.  
 Not logical, I know.

That expanded .395/340gr copper GSC FN was expanded by hitting water at 2700 fps.  
 Water is harder than concrete at that velocity, but not as abrasive.  
 By the time it got to the second waterbucket, I am sure it was down to 2300 fps or slower.  
 All that expansion probably happened in the first eight inches of water. Actually most of it occurred in the first 2 or 3 inches of water, most likely.

Set it up nicely for straightline penetration. 🤖

**RIP** 09 March 2010, 22:52

Jim,  
 Good work. 🤖 I am blocked from looking at photobucket at the moment, will have to whip out the iphone and magnifying glass ...

**buffalo** 09 March 2010, 23:03

Michael.

What about the 500 Hornady DGS in .458 at 2300 f/s in the Lott and around 1900-2000 in the 458 B&M??? Maybe the 480 grs as well? 465HH got great results with the DGS, see if you can confirm in your testboxes...

**capoward** 09 March 2010, 23:19

Whoa. You can read them on a iPhone with a magnifying glass!! 🤖 I almost need a magnifying glass to read them on my 17" laptop monitor!!

Jim 🤖

"Life's hard; it's harder if you're stupid"  
John Wayne

**Andy** **10 March 2010, 00:54**

The 458 450 grain GS pictured was recovered in 5 gallon nylon buckets backed by a few 3/4 inch thick pine boards. It went through about 44 inches of buckets and four inches of wood as I recall. Velocity about 2,450 fps. 1-12 450 GA. Andy

**I Bin Therbefor** **10 March 2010, 01:47**

Many thanks for the fine team work getting the spread sheets posted! 🙌👍

One more thing, please update as info is generated. 🍻🍻🍻

**michael458** **10 March 2010, 02:11**

quote:

Originally posted by Gerard:

Michael,

Expansion of the meplat starts at impacts around 2300fps. Obviously expansion depends on the SD of the bullet and how fast it is slowed down in target. Mainly, the expansion enhances the qualities that make for straight line penetration rather than detract from it.

I have access to a website that is needing some content. If you want to post the spreadsheet there as a download, you are welcome. Mail it to me and I will get it up. In fact, anyone who has an article or item of interest to put up, mail it to me and we can create a category for it, if it needs it, and place it.

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Gerard

I had in the past always contended that any deformation would or possibly could detract from straight line penetration. But I am not so sure of that these days, with as much as we are learning here. A lot of myths have been dispelled thus far. I understand the concept, and it does seem logical that by expanding the meplat upon impact, causing it to enlarge, larger meplat, deeper and straighter penetration! As long as that expanding meplat is even, which it seems to be. At least it certainly does not seem to distract from penetration from what we see.

Since I rarely run much big bore past 2300 with the exception of 416 then for me personally it does not come into effect.

Thanks so much for the offer to post on the site! It looks like Jim got it sorted out for us, as I knew he most likely would figure it out.

Michael

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

The New Word is "Non-Conventional", add "Conventional" to the Endangered Species List!  
Live Outside The Box of "Conventional Wisdom"

I do Not Own Any Part of Any Bullet Company, I am not in the Employ Of Any Bullet Company. I do not represent, own stock, nor do I receive any proceeds, or monies from ANY BULLET COMPANY. I am not in the bullet business, and have no Bullets to sell to you, nor anyone else.

**michael458** **10 March 2010, 02:24**

Jim

I knew there was a reason I keep you around! Excellent job! Don't know how you did that, not sure I want to know either! Maybe I experiment for the next updated sheet and enlarge the print some so we can see it! Hell I know what's on there and I can barely make it out! Larger Print for the next one!

As for the measurements, stamping is the only way I have confidence of being consistent with all bullets. For our purposes I think it will be enough.

RIP

Well I had a suspicion that either you or Jim would figure the spreadsheet out. I was correct!

I think a good test again with the same .395 bullet in the Sim-Test, eh? Might see Sim explode everywhere? Good concept, I just have not seen it.

Buffalo

Yes, will do the Hornady DGS! When they come in I will hammer them at several velocities and see what we see. As you see posted under the 458 section the one test did not do so well with the 480. So I don't put a lot of faith in them being able to perform with the big boys! Yes, I know all too well that 465HH did very good with them, and from what I have seen he is recommending them now! What

would he do if he ever shot a North Fork or Barnes Banded into an elephant, and saw how good that performed I wonder? 🤔

Andy

Thanks, good info!

IBT

Yes, every update I will send to Jim and Jim can post it! Maybe I will ask him how, but he does things that are too complicated for me to deal with! Good man to have on the team! (But he will drive you Quickload Crazy-so don't ask about that-and he is the Quickload King)

Didn't you say you were going to be in Charlotte at the NRA Convention?

Michael

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**capoward**

**10 March 2010, 02:41**

quote:

Originally posted by Michael458:  
But he will drive you Quickload Crazy-so don't ask about that-...

Hum...thought that was QuickDesign Crazy...Hum..  Ok guess I can stop sharing...   



Jim 

*"Life's hard; it's harder if you're stupid"*  
John Wayne

**michael458**

**10 March 2010, 02:51**

Jim

Damn, did you see I was talking to IBT? No my man, just F%\$@\*&G with ya! I am quite sure you are a genius! And these days you seem to be quite an asset, so thanks! I am just proud as can be I have one of those little photos under my name now! No one has said shit about it either!

All my life I have made it a point to surround myself with good folks! That is the way to success you know! So count yourself as one of those!

Michael

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**jwp475**

**10 March 2010, 03:10**

What is being done here is a lot of work and the information is light years ahead of the inaccurate BS that has been spouted for years.

To the testers 5 thumbs up and a toast..       

A 9mm may expand to a larger diameter, but a 45 ain't going to shrink

Men occasionally stumble over the truth, but most of them pick themselves up and hurry off as if nothing had happened.  
- Winston Churchill

**capoward**

**10 March 2010, 03:14**

quote:

Originally posted by michael458:  
Jim  
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Michael

Ok, just F%\$@\*&G back with ya!

And, you're looking mighty perky...nice photograph!

Jim 🍻🍻

"Life's hard; it's harder if you're stupid"  
John Wayne

capoward

10 March 2010, 03:16

quote:

Originally posted by jwp475:

What is being done here is a lot of work and the information is light years ahead of the inaccurate BS that has been spouted for years.

To the testers 5 thumbs up and a toast.. 🍻🍻🍻🍻🍻🍻🍻🍻

+1 and another toast 🍻🍻🍻 And John for you and I 🍻🍻

Jim 🍻🍻

"Life's hard; it's harder if you're stupid"  
John Wayne

465H&H

10 March 2010, 04:43

quote:

Originally posted by michael458:

Jim

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Thanks, good info!

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Michael

Michael,

I have already done that with the NF. Check my last hunt report for the results.

465H&H

michael458

10 March 2010, 04:55

HEH! Depends on where you put the hunt report. I don't spend much time upstairs, it's a little to "pompous" for my tastes. Most of the time I cruise through just curious at what ignorant stupidity I might run across for laughs. And if you are posting it upstairs you are pretty much wasting your energy there, if it has to do with shooting and bullets, it needs to be here where at least it can be looked at by shooters.

3/10/10

You know this statement is a bit ugly, and for that I apologize for the rudeness of it, in doing my best to be a gentleman! But none the less, it's very hard for me to tolerate rudeness, arrogance, ego and ignorance, traits combined together as one in others in which they consider themselves legends in their own minds because of some sort of experience or another. Not directed at you 465 HH at all, but some you hang around with! I think you should keep better company and stay down here with us! Most of the time I simply ignore, but once and awhile I cannot abide by such, and simply must take them to task!

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**capoward**

**10 March 2010, 05:52**

quote:

Originally posted by michael458:  
465

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M

Michael,

Here's H's post over on the DR Forum, 470 vs 500 (Penetration) Thread:

quote:

Originally posted by 465H&H:

Here are some results from my use of various solids on elephants. I will limit this to frontal head shots for the time being. In general I have found that RN steel jacket solids will penetrate to the middle of the neck. That is for 480 to 500 grain bullets out of the 465 or 470 rifles. Hornady 500 grain 458 Win bullets (DGS) at 2,150 fps were found at the front of the shoulder, approximately 18" farther than the Woodleighs. North Fork FN solid was found about 12" behind the shoulder bone in the in the back strap next to the spine. Still more penetration. Out of the Lott, the 458 woodleigh 550 grain bullets at 2,150 fps were found in the stomach contents. That is over six feet pf penetration. I haven't tried any 500 bullets so I can't say what they would do. I also give a caveat with the above results. My sample sizes are small but the results were consistent. My next try may not be as consistent. All of these bullets killed the elephants in a most satisfying manner. I would use any of them again.

465H&H

I'll try to summarize as follows:

Calibers – Penetration on frontal head shots of elephant:

.465 & .475 Calibers:

480gr & 500gr Woodleigh FMJ RN: – frontal head to middle of the neck,

.458 WinMag @ 2150fps:

500gr .458 Hornady DGS FN: Woodleigh +18" (frontal head to front of shoulder)

500gr .458 North Fork FN: Woodleigh +30" (frontal head to back strap next to spine)

.458 Lott @ 2150 fps:

550gr .458 Hornady DGS FN: Woodleigh +30"+ (found in stomach – over 6' penetration)

Now if we knew the actual distance of "frontal head to middle of the neck" and "found in stomach – over 6' penetration" a better perspective could be developed.

Jim 

"Life's hard; it's harder if you're stupid"

John Wayne

**someoldguy**

**10 March 2010, 07:12**

quote:

. No I have not forgot who come up with this, Thank You Glenn!

You're welcome! I'm glad I could contribute something other than aggravation. 🍷

Hey, I didn't really suggest lipstick for marking the meplat, did I?



Great job on the spreadsheet, Jim.  
Now don't get ticked off and delete it on us!



---

Glenn

**I Bin Therbefor**

**10 March 2010, 16:43**

"Didn't you say you were going to be in Charlotte at the NRA Convention?"

Will not be at NRA this year. It's the Shoot Show's turn. Did attend the DSC earlier in the year. I try to rotate the NRA, SCI, DSC and Shoot Show in some sort of order. One a year. 🍷🍷🍷

**michael458**

**10 March 2010, 17:15**

IBT

OK then I suppose I won't see you there. I don't make many shows anymore. I do love SHOT and the NRA, and since NRA is in my back door nearly I will be there for Friday and Saturday on the floor. I won't attend other functions, just the floor!

Michael

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**Whitworth**

**10 March 2010, 18:10**

quote:

Originally posted by michael458:  
IBT

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Michael

I will see you there, Michael!

"Ignorance you can correct, you can't fix stupid." JWP

If stupidity hurt, a lot of people would be walking around screaming.

Semper Fidelis

"Building Carpal Tunnel one round at a time"

**DWright**

**10 March 2010, 19:05**

quote:

DWright

I was thinking about you this morning and wondering where you have been? About the thread, yeah, who would have thought it? But here we are. I suppose some folks are very upset that it has continued, don't you suspect? The truth is out there!

O, I'm here Michael. . . . yup, right here . . . .

Keepin an eye on all the testing goin on, in case I have to jump in to keep you between the picket fences!

But it looks like you are doin just fine so far on your own. . . . But remember. . . .



I WILL be watching!



<http://www.mazamasportinggoods.com>

**jwp475**

**10 March 2010, 19:21**

quote:

DWright

I was thinking about you this morning and wondering where you have been? About the thread, yeah, who would have thought it? But here we are. I suppose some folks are very upset that it has continued, don't you suspect? **The truth is out there!**

But, where is there? I could not find it on my GPS

---

A 9mm may expand to a larger diameter, but a 45 ain't going to shrink

Men occasionally stumble over the truth, but most of them pick themselves up and hurry off as if nothing had happened.  
- Winston Churchill

**Whitworth**

**10 March 2010, 19:26**

quote:

Originally posted by jwp475:

quote:

DWright

I was thinking about you this morning and wondering where you have been? About the thread, yeah, who would have thought it? But here we are. I suppose some folks are very upset that it has continued, don't you suspect? **The truth is out there!**

But, where is there? I could not find it on my GPS

Evidently you need a better GPS.....

"Ignorance you can correct, you can't fix stupid." JWP

If stupidity hurt, a lot of people would be walking around screaming.

Semper Fidelis

"Building Carpal Tunnel one round at a time"

**michael458**

**10 March 2010, 19:31**

Excellent Whitworth--For sure will catch up with you there on the floor I suppose, or are you behind the scenes somewhere?

Dwright, keep watching!

JWP

There? Here is there? All truth flows from South Carolina!



Had a GPS once, could not figure out anything other than on and off! Much past that I just soon use a compass! But I do have that on and off button whipped!

OK, little break, back to the lab, then back to the range!

Michael

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

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**michael458** **11 March 2010, 17:22**

I think I might have the spreadsheet thing figured out. Also made some improvements on the way it appears (I think) since I have and keep the data. If this works well, then it is not an issue for me to update and post when needed. So we see below?

458 Caliber Solid or FMJ Tests													
Bullet	Diameter	Meplat	% Meplat	Length	Bearing	Surface%	Bearing	SD	Muzzle Velocity	Impact Velocity	Impact Distance	Twist Rate	Straight Penetration
550WoodFM	0.458	0	0	0		0	0	0.374	0	2146	22 yds	1:14	28
500Woo FM	0.458	0	0	1.389		0.48	35.00%	0.341	2100	2051	22 yds	1:14	31
									1827	1776	22 yds	1:14	24
500 Barnes Banded	0.456	0.3	66.00%	1.519		0.444	29.00%	0.341	2209	2160	22 yds	1:14	62+
									1815	1780	22 yds	1:14	62+
								X2	Both Velocity Tests out the back of the box!				
								X2	1489	1453	22 yds	1:14	35-43
								X2					52-53
								X2	2213	2148	22 yds	1:14	66
500 Nosler	0.457	0.275	60.00%	1.530		0.706	46.00%	0.341	0	2181	22 yds	1:14	62
500 Super Penetrator	0.456	0.28	61.00%	1.5765		0.246	15.00%	0.341	0	2160	22 yds	1:14	30
500 Rhino	0.456	0.28	61.00%	1.572		0.706	45.00%	0.341	0	2198	22 yds	1:14	58
480Hornady DGS	0.4565	0.246	54.00%	1.332		0.586	44.00%	0.327	2157	2121	20 yds	1:14	31
475 JDJ	0.457	0.302	66.00%	1.469		0.216	15.00%	0.323	0	2140	20 yds	1:14	62
450 Barnes Banded	0.456	0.3	66.00%	1.371		0.363	26.00%	0.306	2227	2172	22 yds	1:14	56
									Average of Many Tests 458 B&M				
450 North Fork	0.457	0.314	69.00%	1.362		0.42	31.00%	0.306	0	2212	17 ft	1:14	53
								X2-Each	0	2160	22 yds	1:14	56
400 Wood Mono	0.457	0.317	69.00%	1.234		0.4	32.00%	0.272	0	2312	17 ft	1:14	50
								X2					
400 Barnes Buster	0.457	0.268	58.00%	1.076		0.603	56.00%	0.272	2017	1877	48 yds	1:20	28
									2051	1914	48 yds	1:20	23
									1828	1698	48 yds	1:18	28
									2051	1902	48 yds	1:14	33
									2043	1908	48 yds	1:14	34
330 Barnes Banded	0.456	0.3	66.00%	1.021		0.236	23.00%	0.225	2138	1937	48 yds	1:20	41
									2331	2281	22 yds	1:14	50

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**michael458** **11 March 2010, 17:23**

Well that appears pretty good looks like to me!

Michael

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**416Tanzan** **11 March 2010, 18:23**

It would be nice to have the expandable data, and 338, too, when you get a chance.

+++++

"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.

**michael458**

**11 March 2010, 18:46**

Tanzan

When I saw your post in my email, I remembered, wait, in the solids we also did a 250 Barnes 338, that I neglected putting on the spreadsheet.

What has been posted is Solids and FMJ only---no expanding bullets. The way I keep terminal data is by caliber. All expanding and solids are on those sheets, but, this was a request from Capoward which included all measurements of solids, so it is totally separate sheet from the other data.

As for expanding, yes that is something I can work on and get posted now that I know how to do it.

I will endeavor to get some data posted.

Michael

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

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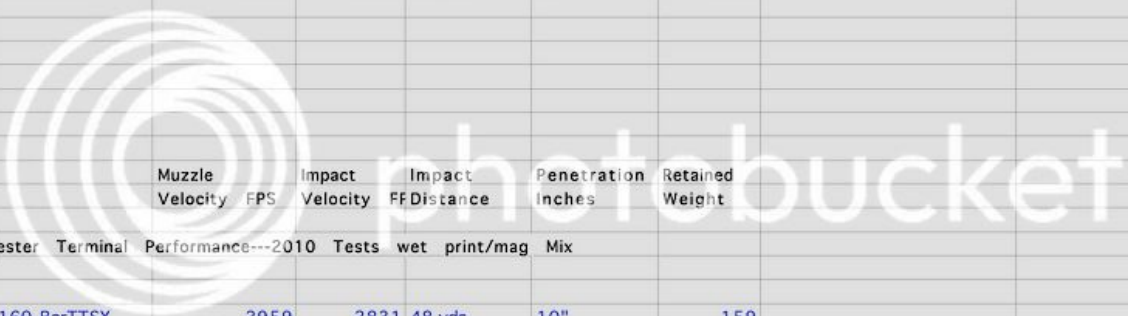
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**michael458**

**11 March 2010, 18:59**

Tanzan

How's this work for you?

Blue is for Approved Loads		Yellow for Loads that Need More Tests					
Terminal Performance Tests for .338 Caliber Bullets							
Date	Bullet	Muzzle Velocity	FPS	Impact Velocity	Impact FF Distance	Penetration Inches	Retained Weight
<b>338 Ultra Terminal Tests---Wet Print/Magazine Mix</b>							
1/26/10	160 BarTTSX		3113	2985	48 yds	10"	159
1/26/10	185 BarTTSX		3201	3095	48 yds	11"	184
1/20/10	210 Barnes X		3211	3080	48 yds	11"	209
1/20/10	210 Nosler P		3155	3030	48 yds	11"	162
1/20/10	225 Hornady		3144	3040	48 yds	11"	145
1/20/10	225 Nosler A		3152	0	48 yds	11"	125 Trauma
1/20/10	225 RemBond		3108	2948	48 yds	10"	147 Extreme Trauma 4"
1/20/10	225 Wood PP		3113	2951	48 yds	10"	163 Extreme Trauma 4"
1/20/10	225 Swift		3130	3017	48 yds	15"	206
1/26/10	225 BarTSX		3177	3027	48 yds	18"	171 Petals Shear-Trauma
1/20/10	250 Hornady		2977	2866	48 yds	11"	146
1/20/10	250 Nosler P		2963	2873	48 yds	16"	195
1/20/10	250 BarSolid		2170	2022	48 yds	48"	250 Straight Line Penetration
1/20/10	250 BarSolid		2747	2545	48 yds	60"	250 Straight Line Penetration
1/20/10	275 Swift		2798	2677	48 yds	17"	261
							
		Muzzle Velocity	FPS	Impact Velocity	Impact FF Distance	Penetration Inches	Retained Weight
<b>338 Winchester Terminal Performance---2010 Tests wet print/mag Mix</b>							
1/26/10	160 BarTTSX		2959	2831	48 yds	10"	159
1/22/10	180 Nosler A		2991	2837	48 yds	10"	136
1/26/10	185 BarTTSX		2974	2872	48 yds	11"	184
1/22/10	200 NoslerBT		2947	2854	48 yds	10"	133
1/22/10	215 Sierra		2913	0	48 yds	11"	181
338 Win	225 Nosler Bonded		2693 fps			50 16"	148
338 Win	250 Hornady		2640 fps			50 - - -	170
							NOTE-These Tests were Old Tests-Wet Print Only!
							Good Performance---<<<<250#animals
							Max Velocity for this bullet 2700 fps
							Very Good Performance---<<<<250# animals
							Max Velocity for this Bullet 2650 fps
1/20/10	210 Barnes X		2887	2783	48 yds	13"	209
1/20/10	210 Nosler P		2917	2799	48 yds	12"	151
1/20/10	225 Hornady		2878	0	48 yds	14"	167
1/20/10	225 Nosler A		2884	2788	48 yds	13"	145
1/20/10	225 Remington		2851	2724	48 yds	13"	200
1/20/10	225 Wood PP		2859	2717	48 yds	13"	195
1/20/10	225 Swift		2934	2821	48 yds	14"	202
1/26/10	225 BarTSX		2883	2753	48 yds	15"	225
1/22/10	250 Hornady		2676	2585	48 yds	14"	176
1/22/10	250 Nosler P		2736	2645	48 yds	16"	200
1/22/10	250 Swift A		2644	2534	48 yds	18"	242
2/12/10	250 BarTSX		2525	2469	22 yds	18"	250
2/12/10	250 BarTSX		2699	2640	2 yds	17"	250
<b>338 WSM Terminal Performance---Wet Print/Magazine Mix</b>							

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**Whitworth**

**11 March 2010, 19:01**

Michael, PM sent.....

"Ignorance you can correct, you can't fix stupid." JWP

If stupidity hurt, a lot of people would be walking around screaming.

Semper Fidelis

"Building Carpal Tunnel one round at a time"

**michael458**

**11 March 2010, 19:12**

quote:

Originally posted by Whitworth:  
Michael, PM sent.....

Got it and replied back.

M

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

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**michael458**

**11 March 2010, 19:13**

Now I am outta here, I have range work to do, some more load data on the 50 B&MSA.

Be back sometime later!

M

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

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**416Tanzan**


**11 March 2010, 20:16**

quote:

Originally posted by michael458:  
Tanzan

How's this work for you?



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Terminal Performance Tests for .338 Caliber Bullets									
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2/12/10	250 BarTSX		2525	2469	22 yds	18"	250		
2/12/10	250 BarTSX		2699	2640	2 yds	17"	250		
<b>338 WSM Terminal Performance---Wet Print/Magazine Mix</b>									

Hey Michael, that works for me!

There are going to be a lot of thankful animals in the forest for a neat, orderly invitation to dinner.

++ ++ ++ ++ ++

"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.

**Whitworth**

**11 March 2010, 22:01**

Hey, whatever happened to the Garrett Hammerheads y'all were going to test??



"Ignorance you can correct, you can't fix stupid." JWP

If stupidity hurt, a lot of people would be walking around screaming.

Semper Fidelis

"Building Carpal Tunnel one round at a time"

**capoward**

**11 March 2010, 23:04**

Nice picture Michael...not as perky as yesterday...but nice nonetheless.

Jim 

*"Life's hard; it's harder if you're stupid"*

*John Wayne*

**sharpsguy**

**12 March 2010, 00:28**

I've been wondering the same thing as Whitworth. What happened to the Garrett Hammerhead test?

**jwp475**

**12 March 2010, 05:35**

Yes, the 45-70 Hammer Heads, what happened?

---

A 9mm may expand to a larger diameter, but a 45 ain't going to shrink

Men occasionally stumble over the truth, but most of them pick themselves up and hurry off as if nothing had happened.

- Winston Churchill

**capoward**

**12 March 2010, 06:53**

Did someone ever send some Hammerheads to Michael?

Jim 

*"Life's hard; it's harder if you're stupid"*

*John Wayne*