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Moderators: GeorgeS

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Terminal Bullet Per	formance	.ogin/Join
capoward One of Us	posted 09 December 2009 00:25	<u>Hide Post</u>
	quote:	
	Well I suspect the big difference today is that I pulled the boxes up to the chronograph, all impacts were at 17 FEETnot 20-22 yards as I normally do. So all impacts are nearly right out of the muzzle. Now someone tell me, is it possible that the bullet has not fully stabilized at this point yet??? If impact distance is increased to say 20 yards stabilization is probably a bit better? Need some professional opinions on this please.	
	Michael,	
	The only way to truly know is to move the boxes back to their normal positions at 20+ yards (<i>Edited to correct distance</i>)and go ahead and move the chronograph back there with them, I'm sure you'd not accidently shoot	the
	screens. 👅	
	No Norward Dense	
	Jim 🕾	
	"Life's hard; it's harder if you're stupid" John Wayne	
	Posts: 4954 Location: Central Texas Registered: 15 September 2007	c "
RIP		
one of us	posted 09 December 2009 01:01 For decades now, the lore has required at least 20 yards for the bullets to "go to sleep" or settle down and dampen the nutating-heebie-jeebie-tremors of muzzle exit. I always shot the IWBB at 25 yards.	<u>Hide Post</u>
	Will get out the iphone and look at some pictures.	
	DRG says: "Kiss my liberal grits!"	්
	Posts: 28032 Location: KY Registered: 09 December 2001	<u>G</u> .

michael458 One of Us	posted 09 December 2009 01:32	<u>Hide Post</u>
	Jim and RIP	
	Yes, just as I thought. I really did not think about it until everything was loosing stability at the very end of penetration, then I want to know why. Since most everything I did today I have not done before I was not sur until I fired the 500 MDM off. When it too lost stability I was quite sure it was the short distance I was shooting Normally when set up the testing for solids has been 20-22 yds and the 500 MDM has been stable 100% of the penetration.	g.
	So one thing is a fact, all work at extremely close range, and all will do the job up close without issue. Since I h plenty of 550 gr .500s , 450 .458 North Forks, and 370 416 North Forks, I will repeat the test again at 20 yds. damn box is nearly 12 ft long both together! If there is significant gain, then I still have a couple of the GS Cus left, or could just shoot the ones I already shot?	The
	Thank you RIP, I figured as much, but that confirms enough for me.	
	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"	
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	Posts: 8426 Location: South Carolina Registered: 23 June 2008	5"
capoward One of Us	posted 09 December 2009 02:36	<u>Hide Post</u>
	quote:	
C photobuckes	If there is significant gain, then I still have a couple of the GS Customs left, or could just shoot the ones I already shot?	
	I don't possess any GSC bullets or I'd send you some to replace the .416 410gr FN that you shot so that you c fully redo your test.	ould
	Jim 🛱 "Life's hard; it's harder if you're stupid" John Wayne	
	Posts: 4954 Location: Central Texas Registered: 15 September 2007	ď
Bike Rider One of Us	posted 09 December 2009 02:49	<u>Hide Post</u>
	Michael,	
	Does the first box have the wood back or have you removed the wood back?	
	Want to make a bet?	
	The little 6.5mm 156gr vs the 512 or 550gr .50cal wanta bet $igodot$)))	
	Bikerider	
	Posts: 243 Location: USA Registered: 20 August 2002	5"

michael458 One of Us	posted 09 December 2009 03:34	<u>Hide Post</u>			
	Jim				
	I still have a couple unfired GS Customs, that will work.				
	Bike!				
	Might bet against the 6.5but no bet on the 9.3 320!				
	No, first box I used one of those plastic coated cardboard thingies! Works great for the back. Of course about did today was "Test to see if the solids would work up close" and they did.	all I			
	Not sure if I can get back on the range tomorrow or not, will try, but will be after lunch before I get back in.				
	I still have a couple of 458 caliber NONCONS to test too. Actually more interested in testing those right now, b do the solids again too.	ut will			
	Also of note, I have some "Super Penetrators" donated by I Bin Therbefor that are on the way, and also have new Woodleigh Monos donated by Con on the way. So we will see how they do in comparison.	some			
	As far as I am concerned the North Forks, GS Customs did as expected, and very well at that. No surprises here, even though I have not worked with them before. I see them as equal to the Barnes Banded, neither one really doing anything the other won't do, at least in this limited test so far. North Forks and GS Customs, look very similar to me, don't see much difference in nose profile, so I imagine what one does, the other will do also. I would not hesitate to use either the North Fork, GS Custom, or the Barnes Banded, for any thing one uses a solid for.				
	One thing, the 410 GS Custom at 2527 fps did penetrate deeper than the same at 2108 fps by a total of 5 "Strinches. Not a tremendous amount, but none the less deeper.	raight"			
	I did also use our "Witness Cards". I chose to place them every 10 inches throughout the mix. That seems abc correct for FN Solids.	out			
	I can also attest that doing the tests with the Witness Cards while excellent, I love them, will continue to use it certainly slows the process a bit. I spent nearly 3 hours testing the bullets you see above, 6 rounds! It takes of time to get everything set up each time, especially tearing down 60 inches of mix each time, rebuilding it againserting the cards correctly, and in general getting everything correct for the next test. But, in the long run, w it!	s a bit ain,			
	Later				
	Michael				
	http://www.b-mriflesandcartridges.com/default.html				
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	Posts: 8426 Location: South Carolina Registered: 23 June 2008	c "			
Con one of us	posted 09 December 2009 03:45	<u>Hide Post</u>			
	Michael, If all goes well watch your postbox late next week. Some 45cal, 400gr Woodleigh monos on the way. Cheers Con				
	Posts: 2198 Location: Australia Registered: 24 August 2001	්			
PWS					
One of Us	posted 09 December 2009 05:07 It would be interesting to see a graph plotted with penetration on one axis and velocity on the other. +400fps added 5-6" total penetration. Wonder if there's a velocity threshold where penetration really starts to improve drops off?				
	Posts: 1138 Location: Kodiak Registered: 01 February 2005	්			



michael4 One of Us I am on the lookout, thanks too!

PWS

Con

I have always been extremely curious about velocity vs penetration with solids. I did a test about a year ago with a 416 caliber 350 Barnes Banded. 2100 fps impact and 2450 fps impact, in this test the slower bullet penetrated deeper! Not by much, 3-4 inches as I recall. Todays test was just the opposite, with the GS Custom. My test work is "limited" at best in this area. In another test with the .500 caliber 510 gr bullet--2100 fps and 2350 fps, there was zero difference in penetration. None at all, both side by side. Also recently I did a 500 Barnes banded, I think one at 1800 fps or so, the other at 2250 fps or so, both exited the box, no definite data on exact penetration. So yes velocity makes a difference, one way or the other, possibly nose profile having something to do with either velocity being on the up side of penetration, or in some cases the downside? It's just something we can pin down exactly just yet. I really doubt that one can make a blanket statement either way. I do think nose profile or type of nose profile can make a difference of whether velocity hi or low, adds to penetration. I have always believed that one would reach a threshold at some point. But what point, with what design?

Michael

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	Post	s: 8426 Location: South Carolina Registered: 23 June 2008	්
458 s		posted 10 December 2009 01:32	Hide Post

I just got through repeating most of the test from yesterday with the 416 caliber410 GS Custom Solids, 370 North Fork Solids, 458 caliber 450 North Fork Solid, and my own 500 Caliber 550 gr SSK Solids. Along with the two 458 Caliber NONCONs.

Today, back to impacts at 22 yds, hoping things would settle down somewhat and get 100% stability throughout.

Yes, and no?

Something screwy happened to the 410 GS Custom. Fired in the 416 B&M at 2240 fps muzzle, 2205 fps Impact the bullet traveled straight to 38 inches, from there something happened it got sideways in the mix at 40 inches travels off course and out of the top of the box at 45 inches. No way I can explain how this can happen. Bullet looked fine, could load it up and shoot again.

458 B&M 450 North Fork 22 yard impact at 2169 fps dead straight to 57 inches. Did not veer off course, but found sideways at the end of penetration. Pretty much close to the same performance as yesterday.

416 B&M 370 North Fork Solid 22 yard impact at 2340 fps straight to 55 inches. About 2 more inches than yesterdays test at 17 feet, still found sideways at the end of penetration, no sign of veering off course.

500 MDM 550 gr SSK Solid 22 yard impact dead straight to 68 inches found straight in medium. But, I fired a second bullet and it lost stability at 65 inches and went off course and out the top of the box? Yet another ?? to go with the 410 GS Custom?

Any number of issues could have occurred to cause these two bullets to lose stability, but I tend to believe that both is outside of normal behavior for these bullets.

More great success on two 458 caliber NONCON bullets. A 260 Brass HP at 2760 fps impact, same story, petals shear at or around 2-3 inches, spread out around center at 4 inches, penetrated to 6-7 inches total. Remaining slug weighing in at 177 grs continued to penetrate to 19 inches. Phenomenal for such a small bullet! Also found nose forward in the mix, no signs along the way of veering off course or tumbling.

The other NONCON, 305 gr Brass HP, same design as the 260, just at 305 grs. 2725 fps impact velocity, petals shear at 2 inches, and these penetrated past 8 inches, some going to as far as 10 inches. Remaining slug weighing 203 grs penetrated to a phenomenal distance of 24 inches! Nose forward, straight penetration, no tumbling or veering off course.

All in all not much real difference from yesterdays test, with the one great exception I can't explain concerning the 410 GS Custom? Since the test yesterday did not show anything near todays test I would have to say that it was some sort of anomaly I can't explain. I do not believe that this is standard behavior for these bullets.

I don't have any photos of these yet, and really not much need to show more solids that honestly can be shot again. One day I am going to do that just to see what happens!

Received the Super Penetrators from I Bintherbefore, THANKS--These are the ones we have seen before with the little metal disk on the nose! Honestly I forget where these are made and by whom? Sure easy to measure meplat, will get details on these and photos maybe by tomorrow. I don't know guys, I am probably wrong, but from the size of the disk, shape of the nose, I am not so sure these are going to do so well, not in my test, it is tough on bullets of all sorts! Just opened these up, don't really know what I have yet, looks like 416 caliber and a 458 caliber. Will get more on this tomorrow.

Michael

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

RIP one of us	posted 10 December 2009 06:16	Hide Po		
	Michael, Those .416/410-grain copper-mono GSC FNs are just to long to be trusted. Gerard recommends the 380-grainers for most applications.			
	Norbert Hansen (Germany) designed those "Superpenetrators" and proved them on elephant.			
	Posts: 28032 Location: KY Registered: 09 December 2001	e		
I Bin Therbefor One of Us	igi posted 10 December 2009 06:40	Hide Po		
	Michael			
	You received from me, 3@ 500 gr 458 cal and 3@ 410 gr 416 cal. If you need more, let me know.			
	For explaination see:			
	http://www.grosswildjagd.de/penetrat.htm			
	Posts: 404 Registered: 08 May 2005			
michael458 One of Us	posted 10 December 2009 13:11	Hide Po		
ý.	RIP Well that may explain. The Rigby is a Ruger #1, not sure of twist rate. The 416 B&Ms are 1:14. If Gerard recommends the 380 GS, the 370 NF is close, and it does fine.			
_	I have seen the Superpenetrators and I am sure they will work. The mix is tough on bullets however.			
	I have to get back to making Witness Cards again, used all I had made up!			
	What about the light weight 458 NONCONs? I am going to order 500 of the 305s. I also need to drop ve to around 2000 and test. Actually I need to really drop velocity down to around 1200 or so and see what too!			
	Hi I Bin Therbefor, thanks, 3 each should do I think. Soon as I can get to them I will give them a go.			
	Michael			
	http://www.b-mriflesandcartridges.com/default.html			
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buffalo One of Us buffalo One of Us	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 re own stock, nor do I receive any proceeds, or monies from ANY BULLET COMPANY. I am not in the bullet t have no Bullets to sell to you, nor anyone else. Posts: 8426 Location: South Carolina Registered: 23 June 2008 Image: Posted 10 December 2009 13:46 Hi Michael. Instability might be an issue here. I used the GS 410 FN`s in my 416 Wby with a 1-12" twist barrel and at 2700 f/s Posts: 873 Location: Denmark Registered: 04 January 2005 Image: Posted 10 December 2009 14:28	Hide Po		
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michael458 One of Us	g posted 10 December 2009 14:48	<u>Hide Post</u>			
Real	Buffalo				
ALC .	I would tend to lean towards instability with my 1:14 twist rate in the 416 B&M as being the issue with the 410 GS also. Since yours has a 1:12, I would say that you are good to go, and of course I know you have tested this before hand anyway. Velocity in the close test did make a difference between the 2527 fps in the Rigby and the 2100 fps in the 416 B&M. Do you have results at 2700 fps in the W?				
	Bike Rider and I tested the 6.5 156 gr bullets some time ago3 of them thru at least 62 inches of mix and out the back of the original box. Not recovered. 2 looked stable all the way thru, 1 appeared to go slightly off course, but only by a couple of inches in 62 inches. He pulled these bullets from old military stock!				
	The 9.3 320 Woodleigh also went completely thru the box and stuck in the retaining wall in the back. Nose forward too! I will retest it with the two boxes put together! Along when I do the 338 tests. When? Maybe next week I think.				
	All my .500s are 1:12 twist rates! I am very satisfied with the penetration of both the 50 B&M and it's 510 gr Solid and the 500 MDM using either the 510 or the 550! I am going to repeat the 550 test and slow this bullet down to 2150 fps at the muzzle, with a 2100 fps or so impact. Just to see.				
	Probably next week too on the Super Penetrators Bin sent. Will test the 458s in one of the Lotts and maybe the 410s in one of my 416 Rems.				
	Michael				
	http://www.b-mriflesandcartridges.com/default.html				
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	Posts: 8426 Location: South Carolina Registered: 23 June 2008	s.			
Con one of us	posted 10 December 2009 15:27	<u>Hide Post</u>			
	Quick everyone send Micheal more projectiles he's obviously not busy enough as is. Cheers Con				
	Posts: 2198 Location: Australia Registered: 24 August 2001	ď			
michael458	posted 10 December 2009 15:33	Hide Post			
One of Us	Gerard				
AP.	You are welcome I suppose, to be quite honest I love the design, and I myself was somewhat dismayed at the results yesterday, but clearly a stability issue. With the 370 North Fork being very close or near the same design as your GS Customs, and it being stable this goes a long way to explaining yesterdays issue. I agree, Ulriks 1:12 twist being able to handle the 410s.				
	Gerard, question, with the 450 458 caliber North Fork and the 370 416 the total penetration is straight, no v off course, but at the very end of penetration I find the bullets sideways in the mix, it must occur that last 1/ so only? I know it is not an issue to be concerned over for sure, and I can only assume that the bullet has lo momentum and energy at that point and therefore lost it's stability? Like I said, this is ONLY at the very end, inches before this it is still straight and nose forward, even an inch before as far as I can tell. Not to mention these bullets have already penetrated to 53-57 inches of this mix, more than enough to do anything asked o in the field.	2 inch or st all two both			
	Michael				
	http://www.b-mriflesandcartridges.com/default.html				
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	Posts: 8426 Location: South Carolina Registered: 23 June 2008	්			
michael458 One of Us	g posted 10 December 2009 15:52	<u>Hide Post</u>			
Real	Con				
ALC .	Slow up some eh! Damn solids are hard to deal with and a lot of work! I made a special trip to our local paper Monday and filled the back of my Excursion with bundled print! Quite a bit of print! Bike Rider brought a truck load only a couple of months ago, and it was getting low! Low enough to be a concern of being able to continue test work. Especially with you guys sending extra solids for me! Solids chew up a lot of paperquick! I chewed so much this week I must spend today cleaning up the range, bagging chewed paper, making new witness cards and getting data recorded, and you see how little was actually tested!				
	Nahh, keep em coming if you want me to do it. Don't mind at all, I learn a lot too! As stated in the beginning everything I have tested in the past were bullets I intended to use in the field, so if I found something that v really had no need to test other bullets from that point! So I am learning a great deal too, and I enjoy learni	vorked I			
	Michael				
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		Posts: 8426 Location: South Carolina Registered: 23 June 2008	්
Bike Rider One of Us		posted 14 December 2009 01:21	Hide Post
one or os		Michael,	
		Well I was going through some ammo this weekend and located what might be the ace in the hole for the de penetrating bullet. Want to bet against a 20 caliber? \bigcirc)) I might even give it the nod over the 6.5 (156gr) ar (320gr). Wanta bet?))	
		Bikerider	
		PS. its longer than the 6.5mm 156gr fmj we tested last month.	
		Posts: 243 Location: USA Registered: 20 August 2002	්
michael458 One of Us		posted 14 December 2009 14:40	<u>Hide Post</u>
- Redd		Bike	
Ser -		.20 Caliber????? First I will need stronger reading glasses to see it! Maybe a microscope? Second, ain't that a the size of my wife's sewing needles? Third, can that be loaded in a sabot, I have nothing to shoot that in? If	
		loaded in a .500 caliber sabotDoes that qualify as BIG BORE?	
		Yeah, I might take up a bet on that one!	
		Michael	
		http://www.b-mriflesandcartridges.com/default.html	
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		Posts: 8426 Location: South Carolina Registered: 23 June 2008	c "
Bike Rider One of Us		posted 14 December 2009 15:16	<u>Hide Post</u>
		Michael,	
		Yep its about the size of a sewing needle ⁽⁾) Sure we can sabot them and launch them from the 50 B&M. Wou kinda cool. If I were a betting man which I am I would take you up on this one. Will bring some with me next visit. Here i hint Sturdivant Bikerider	
		DIRCHUCI	
		Posts: 243 Location: USA Registered: 20 August 2002	<u> </u>
michael458			ď
michael458 One of Us	625	posted 16 December 2009 21:04	
	Test v		
One of Us	Test v so the	posted 16 December 2009 21:04 work is going to be "terminated"! At least until after Christmas! I will be out of town from the 18th23rd, then	it's Christm
One of Us	Test v so the	posted 16 December 2009 21:04 work is going to be "terminated"! At least until after Christmas! I will be out of town from the 18th23rd, then ere is not much time to do a lot. ever, since I Bin Therbefore made the effort to get some 458 and 416 Super Penetrators to me, the least I coul	it's Christm
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I Bin, sent samples of 416 caliber 410 gr Super Penetrator and 500 gr 458 Caliber. I chose 458 Lott and 416 Remington to test with, and loads that I had already established for other bullets in that weight.

I first tested the 458 500 gr version. I did not expect much from these, even though they have been proven in the past, and in the 458 Lott I got no surprises. Impact velocity at 22 yds was 2155 fps. The bullet traveled straight to 30 inches, between 30 and 40 it started to veer off course, at 40 inches it was 5 inches off course and at 46 inches it went out the bottom of the box, hit the floor, and I never found it! Magic disappearing bullet! I don't have a clue as to where it went after leaving the box. Posts: 8426 | Location: South Carolina | Registered: 23 June 2008 The 416 caliber version did surprise me however. Impact at 22 yds at 2310 fps the bullet basically traveled straight to 50 inches. At 40 inches it was 1 inch off course, so I give it pretty straight to 50, at 60 inches it was starting to turn sideways, turbe and was 2 inches at that ne pint. Out the top of the how at 62 inches.

tumble, and was 3 inches off course at that point. Out the top of the box at 62 inches.

465H&H One of Us	posted 16 December 2009 21:51	Hide Post
	How about testing the Woodleigh 550 grain .458 at 2,150 fps out of the Lott?	
	465H&H	
	Posts: 5686 Location: Nampa, Idaho Registered: 10 February 2005	්
I Bin Therbefor One of Us	posted 16 December 2009 21:55	<u>Hide Post</u>
	Thanks for the quick Super Penatrator test.	
	The results take some pondering!	
	Best of the holidays to you and yours.	
	Posts: 404 Registered: 08 May 2005	<u>s</u> ,
iichael458 ne of Us	posted 16 December 2009 23:11	<u>Hide Post</u>
Real	465HH	
1	I could test the 550 Woodleigh FMJ, but I don't have any currently. I have loads for the 550 Soft and h I would guess right now it would test pretty much the same as the 500 gr versions, maybe slightly de line penetration.	
	I Bin	
	You are welcome, mixed results I think, but the test was limited. So it is hard to say. Regardless of the it does not show being any better than some bullets we have currently anyway. Not that it is not a go we already have some good ones. After a little more examination of the 458 caliber bullet I measure it 458. That is a little undersized if you ask me. Also there is not a lot of bearing surface to go along with the .458 did not stabilize because of that. The 416 did better, but it measures in at .415. As I calculate likely the reason for mixed results.	od bullet, but at .4555, not that. I figure
	Michael	
	http://www.b-mriflesandcartridges.com/default.html	
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	Posts: 8426 Location: South Carolina Registered: 23 June 2008	්
IP ne of us	posted 17 December 2009 00:29	<u>Hide Post</u>
	Norbert's .458/500gr "Superpenetrator,"	
	did it do any better than a Woodleigh .458/500gr RN FMJ/solid? Good enough for elephant braining if even a Woodleigh RN can do that.	
	Posts: 28032 Location: KY Registered: 09 December 2001	c "
nichael458		
ne of Us	posted 17 December 2009 04:36 RIP	Hide Post
	The 458 version about the same as the Woodleighs. However I do think the penetrator is undersized should be part of the issue. 416 version did rather well in comparison. Bearing surface on both bullets weak. Basically the bearing surface is those three bands! I think if the .458 was actually .457 or so an bearing surface it would have done fine.	is a little
	Yes, 416 version plenty good for elephant braining, penetration of the 458 sufficient, but don't trust th bullet. Not the designs fault, production issue.	at undersized
	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"	
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	Posts: 8426 Location: South Carolina Registered: 23 June 2008	්
apoward One of Us	posted 17 December 2009 11:11	Hide Post
	Thanks for the testing updates Michaelhave safe travels and a Merry Christmas.	
C. photobucket	Jim 🛱 "Life's hard; it's harder if you're stupid" John Wayne	
	Posts: 4954 Location: Central Texas Registered: 15 September 2007	්
nichael458	posted 30 December 2009 21:17	
D.(I	y Guys! Well I have been back at it once again this morning. Had a few things that needed to be looked a	t. First and foremo
tha	inks to Con we got to look at some of the new Woodleigh Mono Solids, strange looking things I suppose, y look, How Do they Perform?	

A few NonCon bullets that was sent, 230 gr Copper .500 caliber, 300 gr Brass .500 caliber, and I found two 428 gr Brass HP 458 caliber bullets I had from some time ago, about a year ago I tested this bullet, but failed to recognize it's importance at the time.



Opps, failed to get photos of the brass one, but typical fashion as all the other brass ones.

The very small for caliber 230 Copper performed well for it's light weight. The petals sheared very much like the brass at 2 inches, but unlike the brass the petals remain within the same wound channel as the slug. Where brass spreads out and away from the wound channel. I theorize that this occurs because the copper petals retain longer and not explode off at the same time as the brass ones do. Every single brass HP I have tested does nearly exactly the same thing, petals seem to explode at 2 inches of

penetration, move out and away from center. All copper bullets I have tested react the same, petals shear, but remain in the wound channel throughout. As you can see from the photos these petals have been slitted to facilitate shearing. The slits made no difference in the way they shear, or the way they penetrate, only to make sure they did shear is all.

Next is the 428 gr Brass NonCon HP in .458 Caliber. No surprises here, very deep penetration when compared to say a 450 Swift A Frame or similar bullet. For instance one may count on 20-22 inches of penetration with a 450 Swift at 2200 fps, the 428 NonCon remaining slug here went to 27 inches! There is also a lot of damage and trauma caused within the wound channel from 2 inches up to 14 inches, once again a bit more than what you would see with the same 450 Swift A in the same mix. The next time I use a 458 B&M for buffalo, I will be shooting one of these up front, yes in place of the wonderful 450 Swift A that have I used in the past!

Once again this NonCon gave 100% dead straight penetration, and as you see below was found NOSE FORWARD in the mix--Exactly the same as every single one of these bullets I have ever tested. And as far as I can tell every single one that has ever hit animal





I am sold on these NonCon bullets. While I have not put the Brass HPs to animal tissue, yet, I have seen what the copper ones can do on Australian buffalo, and it was impressive to say the least. Whether brass is more effective than the copper, I don't know. I will say I don't think they will be less effective at all. I believe they will transfer massive amounts of trauma and shock to the system, and penetration is fantastic with the remaining slug. Penetration of the remaining slug is dead straight, and far deeper than any conventional expanding bullet. Also wound channels even after the petals have sheared is devastating. The remaining slug seems to transfer far more trauma to the mix, and to animal flesh than just a solid slug would. The edges are extremely sharp, and I am sure this contributes to this destruction of tissue. I don't have much hunting going on in 2010, I have a couple of muskox in April, I will be using a 416 B&M and the 330 NonCon brass HP. Not sure what my hunting partner is taking for a rifle yet, but if he is taking something I have NonCons for, he will be shooting 1 also. Then maybe moose in the fall. In 2011 I am planning on testing the NonCons in a serious manner when I return to Africa.

Michael

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

michael458 One of Us

posted 30 December 2009 21:39

Next for today was the 458 B&M and the 400 Woodleigh Mono Solid, so generously supplied by Con in Australia. Thanks!

Hide Post



This is a tremendous amount of penetration for a 400 gr bullet in 458 caliber! It was 100% dead straight line penetration, and as you see below, found nose forward in the mix. Dead on the 50 inch Witness Card!



Now to keep this in perspective remember our 450 Barnes Banded Solid and the 450 NorthFork Solids at a touch over or around 2200 fps penetrate to 55-57 inches in the same mix. Those two bullets are proven field performers on elephant, buffalo and hippo!

One thing to note, and I think is of importance, is the meplat size on this bullet. It is the largest meplat of several bullets measured. Meplat size is .336 inches, that works out to be 73.4% of diameter, which is an important number to remember. In my opinion it takes a minimum meplat of 60% of diameter to accomplish the goals of a flat meplat solid. I am told by other experts that optimum best performance is no more than 80% of diameter. I can tell you from field experience that 65% to 70% of diameter is more than adequate and works extremely well. So regardless of the funny looking Woodleigh, with the meplat at the top at 73.4% it is a fine performer for sure. It does not come up short any any arena. Compared to the 500 Gr Woodleigh RN FMJ which gives us only around 30 inches or so of straight line penetration before veering off course. Now we all know from experience with others that the RN bullets have killed a lot of elephants and buffalo in the past, so 30 inches of straight penetration in this mix I use must be considered "adequate" for the job. So a bullet that gives 50 inches I would assume would also be adequate for any job asked of it, even though it is light for caliber, in our mindset. Today I would not hesitate to use this bullet, but with my mindset I would much rather it weigh 425-450 grs.

Suffice it to say that with modern flat nose solids, and these NonCon HP bullets we can do things with lighter projectiles than what we have done in the past, if need be. Now I don't propose this to anyone, but can you imagine how some of these lighter solids, the Woodleigh, and even the smaller .458 caliber 330 gr Barnes Banded, and throw in some of the .458 caliber NonCon HPs how these would enhance what a 45/70 could do?????? Oh these are wonderful days in which we live! Bullet technology has taken another leap as far as I am concerned!

Michael

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



posted 30 December 2009 23:32

Making the "assumption" that my test work with solids is going to be slowed someone, as I have but one request left to do, and waiting on the bullets I think we should do a quick review and summary concerning the solids. We have been all over the page with this on several occasions, but I think to put everything in one place would help sort out some issues.

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Hide Post

All RN Solids are not created equal! Of the nose profiles I have tested and worked with one begins to notice vast differences, even within the same manufacturer! For instance there is a vast difference between a 470 caliber Woodleigh RN and a 458 Caliber Woodleigh RN. The 470 caliber RN is the single worst test solid I have ever fired. Tumble, veer off course, penetration short and more comparable to a soft point than a solid. While in the tests the .458 caliber 500 Woodleigh FMJ RN gives us around 30 inches of straight line penetration before veering off course in the test medium. Knowing that this has been adequate in the past for field work, then we must consider that 30 inches of straight penetration in this test medium is "adequate" for field work. I might use a 458 500 Woodleigh FMJ RN in the field if I had nothing else, but I promise you I would not use a 470 caliber 500 FMJ RN. Yes, no argument, they have been used with success many times, but I am not going to use one period.

Other RN designs in smaller calibers are more than good, for instance 9.3--358 and 338 caliber Woodleigh FMJ RN penetrate like their bigger distant relatives in big bore Flat Nose bullets! Yes, correct, I have tested these and they drill deep and straight, and they are RN, but they are even a different profile RN from their larger bore cousins in RN. So, all RN are not created equal, and all RN designs cannot be considered either bad or good for that matter. This includes the Barnes and others. While I have used Barnes RN solids many times in years past and performance was fine, I would not use them again. They veer and tumble in the test medium, and many others do not, I am going to use the best, not the worst or even less!

All Flat Nose Designs are not created equal, but performance is close on the better ones! We have tested Super Penetrators, North Forks, GS Customs, Barnes Banded, JDJ FN designs, Woodleigh funny looking whatever you call them solids, light weight, heavy weight, brass, copper alloy and all sorts of things now! With few exceptions there is not much difference in performance overall.

For instance 458 caliber, 450 North Fork and 450 Barnes Banded FN perform dead equal, while having a vastly different look and profile. Exactly the same story with the 416 caliber 370 North Fork and 350 Barnes Banded, very equal performance with both, vastly different look and profile. What all these have in common is a very similar size meplat on top. The 458s measuring in at 67.7% of diameter with the Barnes and 68.6% of diameter with the North Fork. Very close, and as best I can measure meplat, on some bullets that can prove a chore, try it.

Our 416 caliber 410 gr GS Customs bullets suffered in my 416 B&M due to being long and heavy bullets, and not enough stabilization at 1:14. If you recall we had a successful test with the same bullet in one of my 416 Rigby! Now I am not sure of the twist, it is possible it could be 1:12? At any rate I believe wholeheartedly that the GS Custom bullet is a very successful design. It appears to me that the North Fork bullets are very close to nearly the same sort of nose profile and design, and in the lighter weights at 370 grs did extremely well. So GS Customs I would have in the same class as the Barnes Banded and North Forks! Deep and straight penetration!

Recall JDJ design, I really want to get my hands on some more of these, the 458 caliber 475 gr bullet I tested some time ago penetrated the entire box, 62 inches of material and exiting the rear, not recovered, dead straight penetration, at 2140 fps. This may be an excellent design for solids, I would like to test more of these. I also have one design like this in a .500 caliber bullet at 455 grs, it is also superb, and penetrates far better than it's weight for caliber would suggest, from 43 inches dead straight at low velocity of 1800 fps to 56 inches when run at 2200 fps. Again, if we consider 30 inches adequate, then 43-56 is pretty damn good!

The Super Penetrator! Bullet with the disk on top! Different, had some issues with stability in the 500 gr 458 version fired from a 458 Lott. I think this might have been more with the bullet than with the twist rate. The only bearing surface was the 3 bands, diameter of that is .456, .001 short of normal for mono solids. The percentage of bearing surface when compared to overall length is 15.6% of the bullet actually taking engraving, compared to Barnes at 29%, North Fork at 30%, and most others averaging from 20-32%. Combine this with the .456 factor, and maybe the 458 caliber 500 Super Penetrator was handicapped even before being fired.

Our 416 caliber 400 gr Super Penetrator did very well in the 416 Remington I used, Win M70 of course. In measuring the bearing surface of the 416 I come out to 23.5% of the length of the bullet, and it measures .415, same as all mono bullets. However, I did notice that it did deform slightly, the bullet shortened up, from 1.535 overall, to 1.522 when fired and recovered. I have not seen this before in a straight wet print mix. In addition to that this bullet even at .415 did not show strong engraving.

410 .416 Super Penetrator



Con

michael458 One of Us	posted 31 December 2009 04:56	<u>Hide Post</u>			
-Real	Jim Thanks!				
YEY	Con				
	Get the bullets on the way! I have a couple of truck loads of paper ready! However, I think after today I can p	redict			
	what the results will be before they arrive!				
	Busy yes, but not too busy to find a day to shoot now and again! If I get too busy to do that I will hire someor else to do my job and just shoot all day!	ne			
	Welcome!				
	Michael				
	http://www.b-mriflesandcartridges.com/default.html				
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	Posts: 8426 Location: South Carolina Registered: 23 June 2008	ී			
ALF one of us	posted 31 December 2009 20:35	<u>Hide Post</u>			
	Posts: 7852 Registered: 16 August 2000	്			
ALF	posted 31 December 2009 20:38	Hide Post			
one of us					
	Posts: 7852 Registered: 16 August 2000	s.			
ALF	posted 31 December 2009 22:24	Hide Post			
one of us	posted 31 December 2009 22:24	<u>Inde Post</u>			
	Posts: 7852 Registered: 16 August 2000	්			
DW right One of Us	posted 31 December 2009 22:58	<u>Hide Post</u>			
	Now my biggest fear in all of this is that the charging Elephant or Buff may not be able to read				
	http://www.mazamasportinggoods.com				
	Posts: 1324 Location: Oregon rain forests Registered: 30 December 2007	්			
	Powered by Social Strata Page 1 5 6 7 8 9 10 1				
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