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Terminal Bullet Performance

Page 1 2 3 4 5 ... 304



auote:

Originally posted by DWright:

auote:

Originally posted by ALF:

The flawed reasoning and pseudosceince regarding the mechanisms of penetration of rigid bodies in biomaterials, displayed here defies logic.

It is not the fact that interesting tests are conducted and obseravations made that's at fault, it's the error in observation and explanations and deductions made from these erroneous observations that contribute to the chaos of this pseudo science.

Too claim that the numerical entity of Sectional Density, allbeit in it's incorrect format (SD = m/d squared) has nothing or little to do with the penetration process or the behaviour of one rigid penetrating body into another is an example of just how flawed the reasoning is.

Remove the entity of the ratio of a rigid body's mass to its' projected surface area in the direction of it's motion and you have no penetration. (this by the way is the correct definition of SD for a projectile in motion. It allows for all of the critical behaviours a projectile may exhibit over time on it's way from case mouth when at rest, all the way to the target, then impact and finally when it comes to rest during penetration.

It has already been discussed, and agreed, that SD does play a role in penetration. However, the nose profile play's a much larger role, and can be the deciding factor in just how much a bullet of a certain SD will penetrate. It,(excuse the pun), 'leads the way' for the SD of the rest of the bullet to do it's work

That's the great thing about those willing and able to do comprehensive testing of ideas of the armchair theorist's. It unravels fact's from fiction, and fills in the blanks. (Fact: The world is flat! I know because it appears so from here).



Michael: Great report! (From one that knows, because he does test.)

Spot on

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

Posts: 5077 | Location: USA | Registered: 11 March 2005





posted 05 November 2009 18:32

Hide Post

I happened to notice this comment made by DWright over on the thread about a 460 Weatherby. I stole it from there, to put it over here, DWright hope you don't mind, but it is a good example of how, Velocity is not always your Friend!

${\sf DW}\, {\sf right}$

one of us

Posted Nov 5, 8:51 AM Hide Post

I had a Ruger #1 in .458 WM rechambered to the weatherby round. Used it for ground squirrels here in Oregon for awhile. Was a lot of fun, but the straight stocked Ruger was a little rough on my cheek, so finally sold it in favor of the .375 H&H.

I did learn one lesson with the .460 however: I was making core bonded bullets for the .45-70 at the time; around 400 grains as I recall. But they were soft for the 1,800 fps of the .45-70s. I loaded one up to about 3,000 fps in the Weatherby and shot a small blacktail straight on thru the chest at about 75 yards. The deer dropped straight down at the shot. When I got to it, I found it was blown apart as a squirrel shot with a .223. There was a hole in its back end about the size of a 2# coffee can. The stomach was blown out the side for a couple feet. There was very little salvagable meat left above the hocks!

Lesson learned: Use bullets tough enough to hold together for the game and velocity intended!

Stolen by Michael!

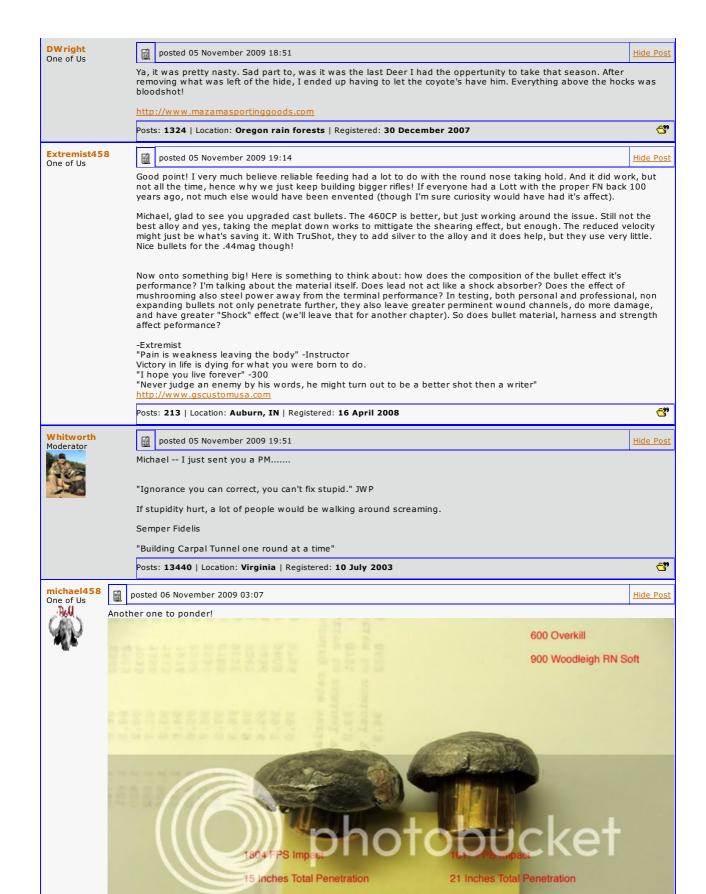
I must add however, I don't intend to be eating one of those deer anyway, and I would love to explode one like a prairie dog!

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

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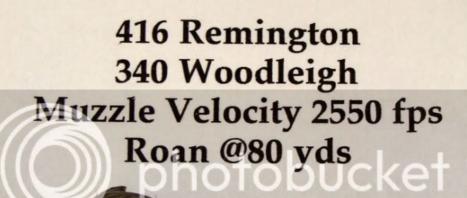


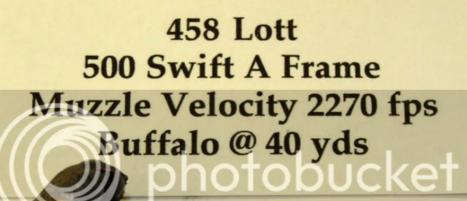














Robgunbuildehttp://

www.b-mriflesandcartridges.com/default.htm posted 06 November 2009 05:07

Inches. 30 to the of my 900 gr copper cup Point bole inter at the Same Venocity and it will go through out of oak at a 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 for the process with the process of stupid people in large numbers to do incredibly stupid things- AH (1941)- Harry Reid (aka Smeagle) 2012

Nothing Up my sleeves but never without a plan and never ever without a surprise!

Posts: 6314 | Location: Las Vegas,NV | Registered: 10 January 2001

€"

PWS One of Us

posted 06 November 2009 05:42

Hide Post

A 900 gr woodleigh Soft in a .6000k at 2400fps looks like a smokin ball of lead...-Rob



They sure do! I don't have the numbers on these (other than the included scale). The 900gr Woodleigh from the Big 6 did do surprisingly well for depth of penetration considering the diameter of the cavity and resulting expansion. All were fired in water soaked magazines/newsprint.

Posts: 1138 | Location: Kodiak | Registered: 01 February 2005

€39

quote:

Originally posted by Robgunbuilder: A 900 gr woodleigh Soft in a .6000k at 2400fps looks like a smokin ball of lead. Penetration in oak is about 15 inches. Go to one of my 900 gr Copper Cup Point bore rider at the same velocity and it will go through 6ft of oak and open up to .8.-Rob

Oh yes, no doubt the Woodleigh Soft at 2400 would turn into a smoking ball of lead at that velocity.

Hey PWS, sounds like our tests are running pretty close, and using basically same sort of medium?



If I hear one giggle out of anyone of you about my tiny little minor caliber .500 I might bi%%H slap someone!!!!! Not a peep!



Michael

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





靈 posted 06 November 2009 15:02

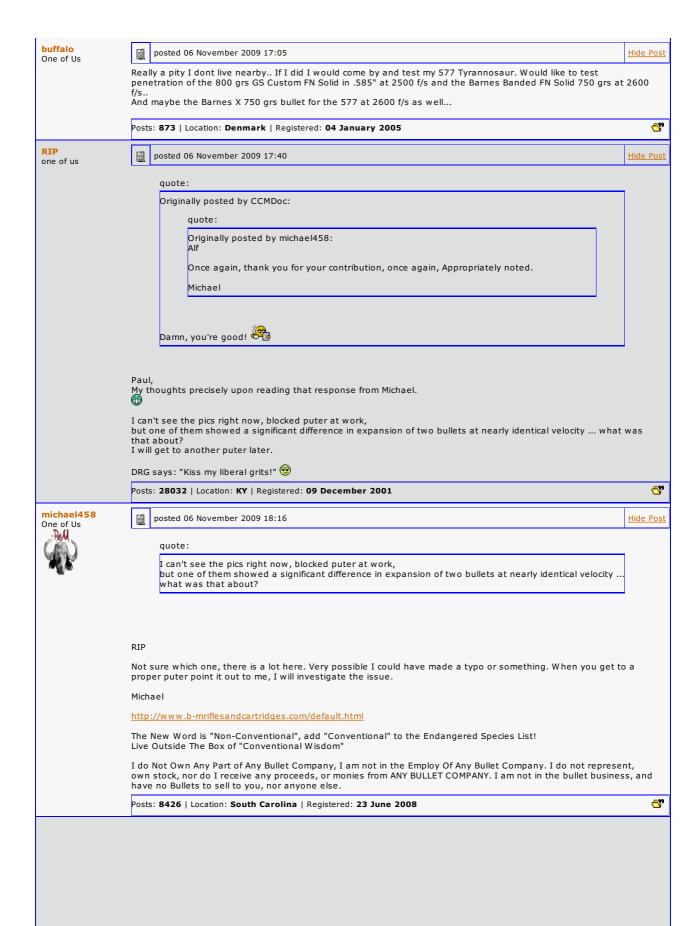
For you 51 Caliber fans out there--some results a few years ago with some of the bullets I have on hand. My rifle is a giant 24 inch 11 lb Ruger M77 in 510 Wells. So big I can barely drag it by the muzzle, already wore down the recoil pad on this SC sand!





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I do N**ot America Pallet, Parishine, for mark in the Empland of America Pallet Company.** I do not represent, own stock, no 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 anyon poster 3448 | Location: In the Shadow of Griffin&Howe | Registered: 24 November 2007



posted 06 November 2009 20:20

Hide Post

auote:

Really a pity I dont live nearby.. If I did I would come by and test my 577 Tyrannosaur. Would like to test penetration of the 800 grs GS Custom FN Solid in .585" at 2500 f/s and the Barnes Banded FN Solid 750 grs at 2600 f/s.

And maybe the Barnes X 750 grs bullet for the 577 at 2600 f/s as well...

I would love to see that test! And I think you can drive the 800's the same speed as the Barnes, sure of it. I would like to see the pictues of what I have already seen in testing, and that is the slight expantion of the FN at that speed works to increase penetration and straight line performance. I think that would be awesome. Michael, I can send you some of those .458's for testing, even though they are old, if you give me a call.

Honestly, I think you have way too many bullets veering of course! The number one thing I can see is that they are either soft lead (not my preference) or brass, and too heavy. The length is killing the performance as they just are not stable ENOUGH (yes, there is a difference)! You might really enjoy the results of going a little lighter and/or shorter and seeing where that gets you.

I know this is another topic here, speed, but it's not all bad. Yes, past a certain point it really doesn't help much, $unless you have a bullet that can cope with {\tt BOTH} high and low speed impact. I see this being the down fall of all but$ a few bullets, and you know I have my preference. Take away the lead, use copper, use a bullet that can expand at low speeds (sorry Barnes x is out) and at hight speed (Swift and Partition are out). Then you have something that will work with close range and long. And sorry, but bullets like the partition and swift don't do very well on bone impact. Especially skulls! The best thing I have seen is a bullt that mushrooms at low speed and soft tissue, but will sheer of the light petals at high velocity, when you have excess speed, and turn into a FN! maybe be a little biased, but you cannot hide from the facts; they work.

Now, what are your thoughts on bullet material and density in regards to penetration?

"Pain is weakness leaving the body" -Instructor

Victory in life is dying for what you were born to do. "I hope you live forever" -300

"Never judge an enemy by his words, he might turn out to be a better shot then a writer"

http://www.ascustomusa.com

Posts: 213 | Location: Auburn, IN | Registered: 16 April 2008



.458 Only One of Us

posted 06 November 2009 20:27

Hide Post

Those 350gr TSX at impact velocity of about 2400 fps look nearly identical to mine at impact velocity of 2500 fps+. They were fired from my CZ at 2750 into a target at 100 yds. I managed to retrieve a couple from the backstop of natural earth (mostly fine sand)plus a few small rocks and multiple fragments of lead and jacket material collected over several generations.

I also fired one from my Ruger No.1 in 45-70 (long-throated) at 2470 fps into a box of hard-dry glossy magazines at 20 yds. Penetration was 8.5", the box moved a few inches away from me, the TSX lost one petal but retained 81%of its weight (284grs). That was a tough test I use to compare expanding bullets for toughness and integrity (not penetration). I'm very pleased with that bullet in both of those rifles. It is supremely accurate as well.

Used one on a medium black bear in September from my CZ. Range was 90yds, a dead-center frontal hit and it exited just in front of the right hip. When I get time I'll look for that TSX.

The 350 Hor. FN looks very good in your results. Much better than the RN in my tests. Nothing like pictures to tell the tail. Thanks.

Bob

www.bigbores.ca

"Let every created thing give praise to the LORD, for he issued his command, and they came into being" - King David, Psalm 148 (NLT)

Posts: 816 | Location: Kawartha Lakes, ONT, Canada | Registered: 21 November 2008



auote:

Honestly, I think you have way too many bullets veering of course! The number one thing I can see is that they are either soft lead (not my preference) or brass, and too heavy. The length is killing the performance as they just are not stable ENOUGH (yes, there is a difference)! You might really enjoy the results of going a little lighter and/or shorter and seeing where that gets you.

Extreme

Take a close look---Round Nose Bullets veer off course--don't have nothing to do with soft lead, length, brass, heavy, light every part of veering off course is ROUND NOSE PROFILE SOLIDS. The only FN that went off course was the 900 gr 600 Overkill at 1700 fps--it was merely unstable at that velocity for some reason???? At 1900 fps it gave 100% straight line penetration. No expanding bullets go off course at all. Just Round Nose Solids. All the long Barnes FN solids penetrate deep, and straight. Go back, take a closer look!

Quote from Extreme "but will sheer of the light petals at high velocity, when you have excess speed, and turn into a FN! maybe be a little biased, but you cannot hide from the facts; they work." quote

A complete discussion on this is coming---Non Conventional Bullets! Also not hiding from the facts, but in fact using the facts! See the 500 MDM in Australia thread! http://forums.accuratereloadin...911090021#2911090021

Bullet Material and Density in regards to penetration?

Good question, simple mind--ME. Material and construction of many of the older, and some of the recent lead core FMJs are a concern to me, hitting bone, breaking, or bending. I hear reports--never experienced this-but some of the first Barnes solids breaking, also some of the first Trophy Bonded solids. I have driven some of the new Barnes FN solid and those that I use in the .500s thru lot's of bone, and tested in several materials even more dense that bone without any issues at all, crunch and munch straight through. So with the Barnes today, and the bullets I am using in .500 caliber there are no such issues.

Density, and I am assuming we are talking about a shorter bullet, tungsten filled, something like that, heavy but shorter? I really don't know to be honest. What I do believe is that it would be fine, but you better put a Flat meplat on the front to make sure! I am a Hard Core believer in a Flat Nose solid. Three things that a solid needs to penetrate deep and straight--#1 Flat Nose--#2 Flat Nose--#3 Flat Nose. Those 3 things pretty much sums it up as far as I am concerned, there are a few exceptions, but this is BIG BORE--not mediums.

Michael

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posted 06 November 2009 20:56

Hide Post

Michael: Will do, when I can see pics again.

Interesting that greater speed got the 600OK stabilized, greater revs, from same twist, gyrostability attained for entry, straight-on attack.

Yes indeed, a round nose is inferior to FN in game.

I could never keep a round nose solid of any sort stright in the IWBB.

They all exited the sides after half the penetration of an FN.

I had to quit RNs due to expense and trouble of repairs to IWBB side members.

buffalo:

That will be an interesting contest:

copper GSC FN .585/800gr @ 2500 fps

brass Barnes BFN .585/750gr @ 2600 fps

I predict a tie, or the Barnes to win by a nose. Similar to my IWBB test of

GSC copper FN .395/340gr @2700 fps

S&H brass FN .395/330gr @2800 fps

S&H won there,

with similar weight and velocity factors relative to caliber.

The GSC FN started off with a slightly larger meplat that got a little larger at impact.

The brass S&H FN started with smaller meplat that expanded less (though some measureable expansion of the brass at such high velocity).

I predict much less penetration to be attained by the TSX .585/750gr @ 2600 fps. Maybe 40 to 50 percent less depth, and petals lost along the way, but not before they act as a drag chute.

Extremist458.

This thing about the expansion of the GSC FN copper nose causing greater penetration:

Due to center of gravity shift forward and greater shoulder stabilization by the larger resulting meplat? This must overcome the greater drag resistance of larger nose diameter, or is that also making for greater

Larger meplat in some tissues such as solids and viscoelastics must surely decrease penetration.

I ask this at risk of being accused of flinging turds in attempt to start a shitstorm.

However, I think, based on my IWBB testing, that the proper brass alloy that maintains an optimum flat nose meplat

without expansion or fracture,

will win the race in the long run.

The sharp cutting edge of the FN meplat is something else to ponder, as in Norbert's super penetrators or Woodleighs new beer bottle solid.

DRG says: "Kiss my liberal grits!"



Posts: 28032 | Location: KY | Registered: 09 December 2001







posted 06 November 2009 21:01

Hide Post

458only

I am a huge fan of that .458 caliber 350 TSX. I think it would make a perfect bear bullet in any 458. I use it in my 458 B&M and it is super accurate, and I know it will perform fantastic. I wanted to try a couple on buffalo when I was in Australia, but the POI was so far from where the 450s were I had concerns about that. So did not. I honestly think they would have done fine, even on buffalo.

Your test is tough--dry magazines are not too far under wood, solid wood. Very tough material. So it would without doubt put a tremendous amount of stress on any bullet.

Michael

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



dean119 One of Us

posted 06 November 2009 21:07

Hide Post

Michael.

Is that 350g SAF the new one designed for the 45-70? I was wondering how that would do at 458 velocities, looks pretty good

Posts: 238 | Registered: 02 February 2006







posted 06 November 2009 21:40

Hide Post

Buffalo

I imagine your bullets would do very good, deep and straight with a tremendous amount of "energy transfer" to target. Probably about 1 round and have to dump a lot of shredded and chewed up wet mix! However, don't ask me to do the shooting! Thats for you to do, I play record keeper, bullet digger, and errand boy!

I am no expert on the 600 but I did find it interesting that at 1700 it was unstable--1900 driving straight.

Yeah, not much need to test anymore RN in 416 + at all, I get exactly the same performance every time in all the big

You bring up a very interesting point about getting to a point with either large diameter or large meplat and penetration being reduced? I have little to go on in this area other than the test with the 900 gr 600 OK Barnes at 1900 and the 500 gr Barnes 458 at 1800, the 500 458 Barnes penetrated deeper? Meplat/diameter, I don't know? I think an area that could use some study!

Michael

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







posted 06 November 2009 21:44

Hide Post

Dean

Very pleased with the 350 Swifts too! Yes, would be a very good 45/70 bullet at 2000 fps or so, near perfect for that. They would handle a bit more velocity too. Maybe I should load some up in the 458 Lott at 2700 or so????

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







posted 06 November 2009 21:58

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New addition for extreme bullet terminal performance testing!

Told you guys early this week I really needed a new box for trying to catch some of the big flat nose solids that was burning thru 62 + inches of medium and out the back of the box.

It is complete and ready now! The new box is open ended, both sides. It butts up straight and level with box number one, giving us a continuous medium for at least 125 inches! If we can't stop these in that much medium, then we should just see how many elephants we can get lined up for one shot, 3 maybe more at least!!!!



Now this is really good, but I did put a little good old South Carolina thought in to this before hand. I even had it designed for all Round Nose Bullets too See Below!!!





Michael

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

€"

RIP one of us

posted 06 November 2009 22:22

Hide Post

Dang fascinating thread!

Love to look at spent bullets, on a puter not blocked, looking forward to home time this evening.

I qualified my prediction of buffalo's test:

I certainly do not believe that a bigger FN meplat is better.

I think a seven degree truncated cone is best, and the sharper the edges of the FN meplat, the better.

"7-degree FN": That's a cone with a 14-degree apex angle, shopped off square to give the FN meplat, with 7 degrees semi-angle/hemi-angle "per side" of the FN nose, as per our custom of describing shoulder angles on cartridge cases.

buffalo:

That will be an interesting contest:

copper GSC FN .585/800gr @ 2500 fps brass Barnes BFN .585/750gr @ 2600 fps

I predict a tie, or the Barnes to win by a nose. Similar to my IWBB test of GSC copper FN .395/340gr @2700 fps S&H brass FN .395/330gr @2800 fps

S&H won there, with similar weight and velocity factors relative to caliber.

The GSC FN started off with a slightly larger meplat that got a little larger at impact.

The brass S&H FN started with smaller meplat that expanded less (though some measureable expansion of the brass at such high velocity).

I predict much less penetration to be attained by the TSX .585/750gr @ 2600 fps. Maybe 40 to 50 percent less depth, and petals lost along the way, but not before they act as a drag chute.

The Barnes BFN has an ogived FN that is not as good as the truncated cone shape of the GSC FN and S&H brass FN! The Barnes BFN is like a round nose with a flat spot on the end of it!!! Still too close to call?

Or, if nose shape is everything, the GSC will win ...

DRG says: "Kiss my liberal grits!"



Posts: 28032 | Location: KY | Registered: 09 December 2001



<u>Hide Post</u>

338 of us

I know Alf doesn't like unscientific home testers, but I find wetpack a good medi to test in. The bullet on the right was from my buffalo @ 75yds, the on on the left from wetpack @ 20yds. Factor in the extra 55yds of vel. pretty darn close. Close enough to give me an idea what my bullet would do before I took it hunting.





LIFE IS NOT A SPECTATOR'S SPORT!

₫"





posted 07 November 2009 14:39

Hide Post

Fred

You are exactly correct, that is what it is about, to give you some sort of idea of what your bullet is doing BEFORE you go to the field with it. Looks SPOT On to me! Excellent job!

Yes, test, test it again, and then find another test sometimes! No I have never tested the 600s in 458 Lott, I really have not paid too much attention to what 600s are available, I have some Barnes Originals from probably 10-12 yrs ago, just have not got around to them yet! 458 Lott is one of my most favorite cartridges in the world! I have several of them and have used 458 Lott in the field more than any other 458 caliber. But have not messed with one for several years now, the B&M series put the Lotts and the rest into early retirement. Since my 458 B&M is too short for real heavies like the 550 Woodleigh Soft, and the 600s I have paid little attention to them recently. Did some tests some time ago with the 550 Woodleigh, very good bullet, especially for buffalo. What 600s are available these days in 458 caliber????

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





posted 07 November 2009 15:16

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quote:

Originally posted by ALF: Like this whole notion that somehow Nose shape is everything and mass its nothing, and yes RN bullet veer off into ... but no one, and I mean no one here has actually stated why these bullets veer off course? but no one, and I mean no one here has actually stated why these bullets veer off course? .

if we use two FN bullets, same mass, same velocity but we change only the size of the meplat, which one wins in the penetration game the one with the least drag ie the one with the greatest Sectional density..... so much so for sectional density having no role?

We shoot a 30 cal solid low drag 168 gr at 1000m The book says SD = .253 or thereabouts.

Hi Alf

Once again, thanks for the contribution, but would like to point a couple of things out, which may save you some time, and energy. Obviously you have an abundance of both. And it is appreciated.

 $I \ have \ outlined \ a \ couple \ of \ things \ from \ your \ previous \ two \ posts \ that \ I \ should \ address \ myself.$

First one is that you point out that NO ONE--Myself much included has pointed out why the RN bullets stray off course. We all agree they do so, so that is established. Now please do not take offense to this statement as it really is not meant to be ugly, I DON'T CARE WHY THEY VEER OFF COURSE--THE FACT THAT THEY DO AND DO SO CONSISTENTLY IN BIG BORES ABOVE 416 CALIBER THAT I HAVE TESTED IS ENOUGH FOR ME! I stated in the very first post on this thread the fact that I AM NO EXPERT--I TEST FOR MYSELF AND NOT FOR YOU. I TEST TO HAVE PRIOR KNOWLEDGE BEFORE GOING TO THE FIELD, IN WHICH I TEST AGAIN ON ANIMAL TISSUE, BUT NEVER WITHOUT HAVING A SUCCESSFUL TEST ON THE RANGE. Or at least most of the time anyway. 100% of the time that I had a successful bullet in the test work--It was successful and performed as expected in the field on animal tissue--100% of the time that a bullet failed the tests on the range, it also failed in the field on animal tissue, the few that I did not listen to my test work

This is within my first post, and probably more in some of the rest. So please, again, no offense, but I really don't care why, it just is, and that is enough for my purposes. I am not in the bullet design business and don't wish to be, I am completely satisfied just to shoot good and proper bullets and kill things with them! The mathematics and the whys I would just as soon leave up to you and others which are far more qualified than I am to do so. I think that if you receive any resistance to your contributions the problem is that like myself, some do not really care about that part of the equation. Now your energy is fantastic, thanks. And I promise this to you personally I really am not trying to be smart or ugly with you, just stating a fact.

Size of meplat is important, both less and more. I have tested smaller meplat bullets and there is a point at were the smaller meplat stabilizes the bullet no better than that of a normal RN design. Point in case, the new Hornady DGS, it faired no better in my work here than the Woodleigh FMJ RN bullets tested. Going the other way, too large of a meplat, well maybe there too. There will be some tests in the near future concerning this very idea. Too large of a meplat will have zero effect on straight line penetration, but depth of penetration could be effected, possibly, I don't know that to be true, need to test it and we will.

Again, this is stated above, I will illustrate again for you. SD has a role, but nose profile must be dead equal for it to come to play, as I have in fact stated. Example;



Both these bullets have the exact same nose profile--one at 510 grs with an SD of .291--the other 550 grs with an SD of .314. The 550 gr bullet out penetrates the 510 every time, when all else is equal and the only difference is SD then SD is the deciding factor. Already stated above, in your excitement about this thread I suppose you missed that, I do that too sometimes. No worries!

Third and perhaps very important to me.

This is big bore and big bore bullets, how they test and how they react and work on big tough animals. I really do not give a flying crap about 30 caliber anything. It means nothing to me, don't even like them, have several of them and as far as I can tell pretty damn useless to me except for shooting rats, and I ain't no rat shooter, so leave anything less than .400 caliber out of the thread as it does not belong on my thread! Thank you for your compliance with this request ahead of time. I promise if I ever start shooting minor calibers on a serious basis we can take it down to the minor caliber forum and can discuss it there. But to be honest with you, that may be some time from now, a very long time in fact, if maybe never. No 30 cals in this discussion please.

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





Michael posted 07 November 2009 15:35

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The New World's "None Gandred". Add "Genze being the damn Live Outsides The Brack School Sand time seeing the damn Live Outsides The Brack Sandres in Andrews in Andr

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In 100% agreement with. I know you have done some high velocity work with these correct? Seems I recall Gerard saying deformed does not matter? I am not sure of that statement or not, just a recall. I am going to have to get my hands on some GS bullets to play with somewhere, anyone got a clue to where I can buy some here in the states? I have not had time to look. I could get some NF too.

RIP doing a jam up job on \$*%& X (\$(%U and + FBN to equal OLK. Please within this thread handle that for me!

Also soon we will enter into the Non Conventional bullets and your expertise in that arena will also be very very much appreciated. You know I was behind the times with those, and still catching up some!

Thanks to all so far, this is turning into an excellent discussion and I think one of extreme importance!

Michael

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ONE MORE THING TODAY

 $I \ am \ not \ going \ to \ let \ this \ go \ until \ I \ hear \ some \ comments -- Gees \ I \ really \ thought \ this \ was \ a \ great \ concept \ so \ that \ maybe \ we \ could \ manage \ to \ keep \ some \ round \ nose \ bullets \ in \ the \ test \ medium --- but \ no \ one \ has \ said \ a \ damn \ word$



Michael

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



jro45 one of us



posted 07 November 2009 15:56

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You have a nice set up. I have a 25' range I reload for 34guns. I been doing that for 40 years.

Posts: 2209 | Location: Delaware | Registered: 20 December 2002







posted 07 November 2009 17:02

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mm don't bother

#dumptrump

opinions vary band of bubbas and STC hunting Club

Information on Ammoguide about What is an AR round? Case Drawings 416-458-470AR and 500AR. http://www.weaponsmith.com

Posts: 37017 | Location: Conroe, TX | Registered: 01 June 2002







posted 07 November 2009 17:21

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Alf

Top of the morning to ya!

Excellent, We must be in agreement, as there is no where else it could go. From the beginning, yes, I made a "rule" FN out penetrates RN--almost, all the time. But it is as I stated several times, A "Rule of Thumb" in most of my test work, done for myself. Agree or not agree is anyones option, and that is fine with me. I am very very sure, there are many holdouts that are in strong disagreement with me, and the test work, and all are entitled to their opinions, as also stated in my previous posts. Also stated several time, there are no 100% absolutes in this, nor in many things we do.

Rules of thumb, that's the only rules I make, and make them for myself.

Now I assume very little, but over many years of putting metal to wet print, and then putting metal to animal flesh, I have come to the conclusion that this is a medium that I can count on to give "reasonable" results so that I might be able to go to the field with confidence, however I do want to point out, that until I put bullet to flesh on the given mission for said particular bullet, until it completes that mission IN FLESH, then I am suspect of it until proven. But thus far, the test work has not been proven Wrong! Even to the point that I can correlate data from one test medium to the other, with reasonable confidence. I have put the FN bullets thru the paces on big, tough critters, including elephant and buffalo. Still want to hammer some hippo with my .500s (have with 458s), but pretty damn positive that I have accomplished all my goals, for the bullets I am using and shooting.

And the point I want to get across back to you is, I am not an engineer, and I am not trying to find out what is best for punching wet paper, and Yes, the same thus far does apply to skin, muscle, and bone, at least on elephants, hippo, buffalos, lions, bears, leopard, elands, elk, reds, moose, wolf, kudus, zebras, and many many more. I am a shooter first and foremost, and a Forester by profession which allows me to be a shooter. I have put enough metal to animal tissue to know the correlation between the two test mediums.

Now being just a simple country boy forester, and not an engineer by any stretch, I would have to agree with you concerning the "flu shot" issue. I am in 100% agreement with you that I want a sharp needle punching thru my skin when the time comes, no issues with that. But the problem is, will that needle punch thru several feet of animal tissue? The other point, you make yourself, which needle do we want to use? Give me the sharp pointy one please, as the blunt needle with a flat meplat is going to hurt as it penetrates, causing me trauma, pain, and energy transfer to my body, exactly the same as a flat meplat bullet does!

100% correct--I also prefer to shoot animal tissue with FN bullets as you are correct they are in fact more stable during terminal penetration than RN bullets.

Since this is highly geared to big bore bullets and big bore rounds, human tissue is not much of an issue, hell even a round nose in 416 + can probably accomplish that mission



Good Alf, think we are on the right path!

Michael

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posted 07 November 2009 18:01

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Alf

Once again an excellent point, and I am pretty much in agreement concerning wet print and animal tissue, pretty much, not completely.

As for the density issue, this is why I insert a mix of catalogs/magzines which makes the medium 35% tougher than wet print alone, which would bring in closer to muscle tissue considered in the study you present.

In addition to this point, you do not consider that any animal is not solid, thru and thru muscle? You have some skin, you have some bone, some muscle, some liquid, some air within the cavity, then back out again--no such creature I know of is made of solid muscle thru and thru, solid bone thru and thru. Or even solid liquid thru and thru. Therefore this explains another point the fact that In ALL cases, I get less solid penetration in my wet print/catalog medium than I do with the same bullet in animal tissue. Stated before in this thread, Rule of Thumb only--80-100% more penetration with expanding bullets in animal tissue and 35% more penetration with given solids in animal tissue, than in the mixed medium I use. Again, enough bullets in both to have some correlation between the two. Again, just a Rule of Thumb, there can be exceptions, and there are zero absolutes.

Good information, and thanks for adding it, as it helps me even understand my own medium even more so than before.

Michael

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



DW right One of Us



posted 07 November 2009 18:56

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Veral Smith put out a small handbook several years back entitled: 'Jackected performance with cast bullets'. In his book he discusses why he makes his bullet moulds with a large FLAT meplat for maximum, straight line penetration with his bullets.

Essentually, I think what he say's is that the flat nose forces all the matter it contacts out at right angles, and that matter then act's as a 'sheild' so to speak, and deflect's this matter from contacting the sides if the bullet which would cause it to ver off course, and thus ALLOWS the SD of the bullet to do it's work.

Or, in the words of a country boy like myself;

That big A## flat point blows all the bone, muscle, and anything else, straight out to the side, and makes a big A## hole on thru stuff.

This flat point keeps any matter from applying pressure at an angle to any part of the bullet to knock it of course.

Veral does a pretty good job of discribing this action. Pretty basic really.

Ask any ditch digger!

Take a big round pointed digging bar. Slam it down in the dirt and make a hole. NOW, slam it down right along side and catch the outside edge of a rock. The point will sharply veer off to the side.

Now, do the same with a bar that has a full dia., perfectly flat end on it and hit the same rock edge. It will either stop without veering anywhere, or knock the edge off the rock as the corner of the flat point digs straight in.

Hmmm, kinda just like a flat point bullet.

There, hope that helps.

Cheers!

http://www.mazamasportinggoods.com

Posts: 1324 | Location: Oregon rain forests | Registered: 30 December 2007

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