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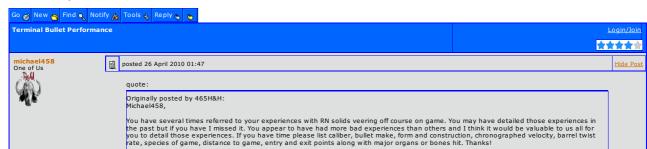


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Moderators: GeorgeS

465H&H



Oh 465HH, I wish I could give you good and proper measurements, and information, unfortunately for many reasons I cannot. Let me explain;

First back in the early part of this decade and the late part of the one before the only solid I was using were the Barnes Round Nose solids. I shot buffalo, elephant and other assorted critters when required for backup and or primary such as in elephant. Today, when I look back on that experience I know see in many cases I had a lack of penetration, compared to what I know and have seen these days. But, honestly at the time, I had little reason, concern, and not enough knowledge of solids to know any better or different! I was ignorant.

It was only as late as 2006 that I started to clue in to this. I went on a whirlwind shooting expedition in the RSA for 5 days testing .500 caliber bullets from the first 50 B&M version. Mostly the common manufacturers at the time, a couple of custom bullets, and a small for caliber round nose brass solid of 405 grs. I had requested this bullet, and based pretty much on the same nose profile as a Woodleigh. I was still very deep into the development stage of the 50 B&M, and requested the round nose for feed and function.



Now while I was not shooting dangerous game, and I had tested all the expanding bullets that I was shooting, I decided to back up all shots on zebra, wildebeast, and everything else I was shooting with these solids. Did I test the solids? Nah, they were solids, why would I test them? My mission was to put to the test the expanding bullets I had to work with on animal tissue. Hornady, Barnes, Sierra, Remington, and a couple of custom made bullets.

So, in 5 days I shot 18 animals from impala to giraffe. This included mostly wildebeast, zebra, and eland. So I would fire the one expanding bullet, follow it up when needed with the solids. The expanding bullets did one hell of a good job, and really few followups were required, but shot anyway. I started noticing some "irregularities" in entrance and exit of the solids? But with time constraints, and efforts to push on, it remained just a bug in the back of my head. Honestly I did not want to believe that I was having any sort of issue with the solid, as at that time if I had an issue, I did not know what to do about it? I continued to shoot. I shot a running eland bad with a 500 gr Hornady, a little too far back. So I had a full day of messing with that eland. Loaded completely full of solids now, I got a shot at it roughly at a bout a 100 yds from the rear, and took it. The bullet hit below the tail, center, and exited the top of the back and hit a large tree limb above the eland, both the PH and I saw it, actually saw the bullet leave the eland go up and hit the tree knocking the bark off and going who knows where. I shot again, and while we did not see this bullet leave, it appeared to exit in the wrong spot also. From that point on I knew something was very wrong and I had a problem.

Later I shot a giraffe and from entrance to exit it had veered off course. Kudu, same story. These were really bad, and it seemed 100% failure to track straight.

No, I did no official measurements at this time, I did not know I needed to do this, I was very satisfied that this was in fact occurring, PH confirmed, entrance and exits confirmed, so I took no measurements to that effect. The twist rate was 1:18, too slow. Velocity as I recall was 2150 to 2200 fps with the 405. In fact I was 110% convinced the bullets were not capable of giving any substantial straight line penetration. I turned down an excellent deal, steal more like it, to go and hammer 4 left over quota elephants because I knew I did not have a bullet that was even close to adequate, and I did not trust it at all at this point.

What to do? Still I was rather ignorant in solid tech and knowledge at this time. I ran home to JD. Still concerned about feed and function, I had not learned much about these guns yet, still early in the development of. I wanted a bigger and heavier RN solid, so I instructed JD to get David to make a new bullet, same nose, from copper, but add 2/10ths of an inch to the base to increase the weight. I calculated it would be over 500 grs, it came out to 512 grs. I went to work testing then.

There was little or no improvement in penetration, veered off course, horrible and I was very disappointed and nearly distraught. Now I had lengthy conversations with both JD and Brian, explained the problems in detail. JD suggested we drop the twist rate from 1;18 to 1;12. Still being ignorant, I did not see what that had to do with anything? What the hell difference was this going to make? I said ok, we put together quickly a 50 B&M with a 1;12 twist barrel and at the same time I had asked for a few different designs of flat nose solids, but for one to be similar to the NEW barnes banded, as I had seen that work great on buffalo in 2005.

In very short order I had a stainless 1;12 twist 50 B&M and 5 different flat nose designs, but the weight was off by 1/10th inch, all the flat nose bullets were light from 440-465 grs, samples of about 25 each design.

During the test work what I discovered the 1;12 twist did improve the straight line penetration of the 512 round nose to around 90% of it's total penetration, which was around 43 inches total, veering off course at around 38 inches or so as I recall (going on memory, not at my main computer right now), but all of the flat nose solid samples were phenomenal! I was astounded at the amount of penetration, and all were 100% dead straight, penetrations to 55-62 inches with all the samples, which are now the standard solids that I use in .500 today for buffalo and elephant. I did increase the weights, still ignorant of how much importance to put on SD, still even then. I now have all those same solids, one at 455 grs, 485 grs, 510 grs, and 550 grs. The larger bullets very much a copy of the Barnes Banded design at my request, for my personal use.

So 465HH I can't give you what you request above, at the time I did not even consider to measure such a thing, as I was not truly aware that such a thing could even happen! I did not want to believe it to be honest, and even tried to deny it in my mind, until it became so obvious that I could not deny it anymore, it was real. I have never used a Woodleigh FMJ of any caliber in the field. One that I will in the future, and intend to do so, is the 9.3 caliber 320 gr Woodleigh FMJ. I also intend to get some Woodleigh Monos, and will use them in the field too at some point.

But what I will not do ever is pollute my beloved Winchester M70s with any sort of round nose solid or FMJ solid while in the field. I have learned a lot in the last few years, and to do anything else is backing up and going backwards!

So I will never be able to take any measurements or check any round nose solids or fmj's in the field, no official data will ever be available. Knowing what I know today, I wish I had done some measurements and recorded the data, but I just did not know I needed too do this at the time to prove anything, I was satisfied with what I saw with my own eyes and that was good enough for me.

Michael

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





posted 26 April 2010 02:23

auote:

Originally posted by RIP:

Doc M,
Oh yeh, thanks for the reminder. Jack Carter's Trophy Bonded Sledge Hammer might have been the "nonmonometal-smooth-shanked" FN that pushed Gerard over the edge into perfecting it as the GSC FN everyone else is now copying to one degree or another.

I will tell Brian to forget the barrel band sling base if that is any problem at all. It was only an afterthought, gilding the lilly, just useless weight!

I much prefer the forward sling base to be on the very tip of the stock forend.

Yep, agree with jwp475 regarding "too much penetration" with a solid: Never! ... as long as it is in a straight line from entrance to exit ...

JackPhantomHuckleBerryHoundDog, RIP

RIP

Make sure you and Brian speak, I thought it was barrel band front sight, I don't want to get confusion going by being in the middle!

I never really had an issue with the sling stud being on the stock, as I hold that hand fairly tight holding the rifle, my hand does not see to slip or anything

Agreed with JWP also, can't have too much straight line penetration, that's sorta like saying to someone "you have too much gun", of course I always tell folks that when they carry a 12 lb 4 foot long rifle that they have too much gun, but that's not what is meant by this comment.

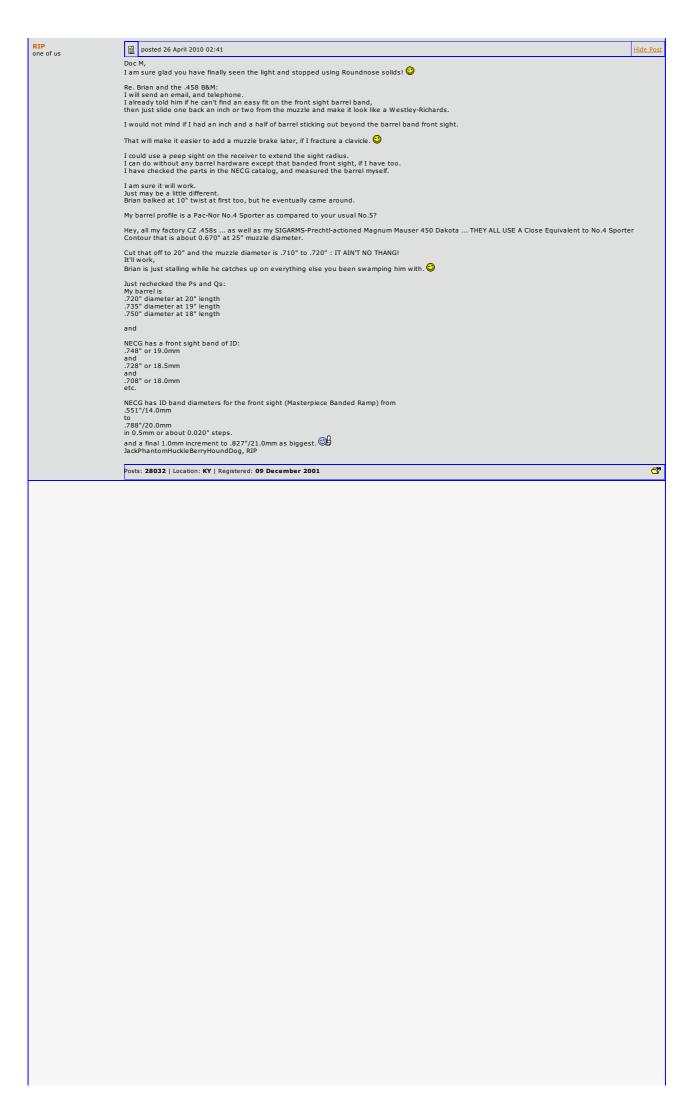
Michael

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Hide Pos

auote:

Originally posted by RIP:

I am sure glad you have finally seen the light and stopped using Roundnose solids! igotimes

Re Brian and the 458 B&M

Re. brian and the .495 Boxis. I will send an email, and telephone. I already told him if he can't find an easy fit on the front sight barrel band, then just slide one back an inch or two from the muzzle and make it look like a Westley-Richards.

I would not mind if I had an inch and a half of barrel sticking out beyond the barrel band front sight.

That will make it easier to add a muzzle brake later, if I fracture a clavicle. 🤤

I could use a peep sight on the receiver to extend the sight radius. I can do without any barrel hardware except that banded front sight, if I have too. I have checked the parts in the NECG catalog, and measured the barrel myself.

I am sure it will work. Just may be a little different. Brian balked at 10" twist at first too, but he eventually came around.

My barrel profile is a 4 as compared to your usual 5.

Hey, all my factory CZ .458s ... as well as my SIGARMS-Prechtl-actioned Magnum Mauser 450 Dakota ... THEY ALL USE A No.4 sporter contour that is about 0.670" at 25" muzzle diameter.

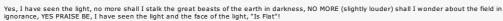
Cut that off to 20" and the muzzle diameter is .710": IT AIN'T NO THANG! It'll work,

Brian is just stalling while he catches up on everything else you been swamping him with. 🤤



I swear, you are going to have to make a plan to come visit! I have a pretty good idea we might get some shooting in between shots of goose, but I am quite sure I would laugh my ass off the entire visit! I have a feeling that you should have been a comedian at some point in your life, and that's meant as a compliment to your sense of humor!

I am sure glad you have finally seen the light and stopped using Roundnose solids!





""I would not mind if I had an inch and a half of barrel sticking out beyond the barrel band front sight. That will make it easier to add a muzzle brake later, if I fracture a clavicle.""

Do be careful, your rifles may be a 1 lb or two lighter, and I hear rumors that these guns without "breaks" (brakes) will do very serious damage to the human body to the point that ones head will spin around, eyes knocked out of the sockets, teeth knocked completely out of the mouth and many other horrible side effects from shooting one of these beasts! I'd hate to be responsible for that!

Hey, barrel band front sight, further back from the muzzle, interesting, I had not thought of that.

Well, touch base with Brian and make sure he understands. Don't want confusion going on, and want you to get what you want.

Yeah, Brian and JD might put up a bit of a fuss about something, but I promise every bit of it is meant for your benefit, and you know exactly how some folks are about things, so they don't ever want you to get any surprises or disappointments.

Back to shooting this week, I am going to get something going tomorrow, even if it is just "block Busting" in that piece of left over box I have, then make a new box for Tuesday morning and afternoon sessions.

Gees, I only have two 500 MDMs up there, a DPMS 458 BM SA, a 50 BM AK M71, and that is it. Getting low up there with only 4 rifles in the works. I must get something put together and get started, oh, I forgot about building a 458 Lott, so that is still only 5 rifles up there. Have to get going!

Michael

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





posted 26 April 2010 03:09

quote:

Originally posted by michael458:

Excellent data and info on the Barnes Buster. Actually this is an excellent bullet in which to test twist rates and terminal stability!!!! Excellent because it has a "marginal Meplat for caliber" percentage, at 55-57% of caliber. From tests with the 458 B&M-1:14 and the 45/70 1:20, there sure is a difference, in the .500s from 1:18 to 1:12 there is a difference, both cases, the faster twist winning the race. I very much strongly favor the 1:10 twist making a big show in your tests, even 1:12 will be a difference. With the "marginal meplat size" for terminal stability it is not capable of self terminal stabilization on it's own, faster twist rates required for optimum performance.

Now, interesting you note how does it hold up during terminals? I think put it up against the "concrete block T'Rex" and let's see? I will make a plan for that (if I don't forget).

Michael

Michael

Pardon me if this question is redundant, but I relatively new to this thread. So rather than read through a few thousand post, thought I would just ask

These twist rates for single barrel rifles, correct?

I received a reply from the supplier of my double "The rate of twist in all CIP made 470s is one turn in 533mm (1:20.9843). This applies to any rifle made in a CIP country (Britain, France, Germany, Italy, Austria, etc...)"

How does the slow twist rate of doubles translate into stability and strait line penetration in double rifles?

Thanks!

"You only gotta do one thing well to make it in this world" - J Joplin

Posts: 1129 | Registered: 10 September 2008

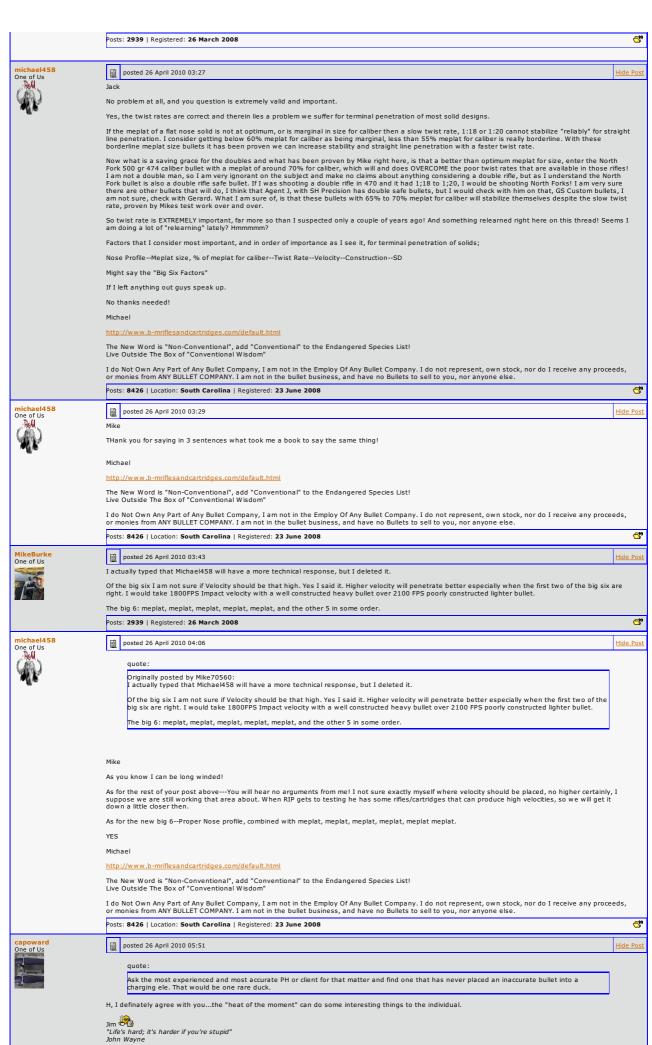
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Jack,

posted 26 April 2010 03:26

According to Krieghoff my 470 is a 1 in 18.9 twist.

The large meplat of the North Fork will allow the bullet to stabilize and travel straight in all my test even in the slow twist of our rifles. The Hornady DGS are really trying to remain straight but the meplat is just a little too small to do so in my rifle. They are good, just not as good as the North Fork.



Posts: 4954 | Location: Central Texas | Registered: 15 September 2007

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You could post your name amungst the greats! Make a retirement career out of it! Might even need to buy a double! ♀

-Extremist
"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.gscustomusa.com

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



Whitworth Moderator



posted 28 April 2010 01:36

Hide Pos



This is the best so-called test in the history of AR!!

"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

Posts: 13440 | Location: Virginia | Registered: 10 July 2003







posted 28 April 2010 05:11

Hide Pos

Well boys I am back! Couple of things, I was Run Off the Double Rifle Forum this morning for posting anything about bullets in double rifles because I have no experience! I told you guys about those guys, seems I was correct, almost! This is going to be a hoot!

Just this morning I had ZERO EXPERIENCE with double rifles, as I look back in my shooting career I can't ever even recall shooting one period! So I did not know all the rules to be able to post on the Double Rifle forum, even if it's about bullet performance, it does not matter, some would think I have no business posting there regardless if I have no experience with doubles. I never claimed any, and anything even about double safe bullets I have to ask someone else, and in fact just yesterday I asked Agent I about his bullets and if he felt like they were double safe. You see, I actually believed that because of the extremely good work Mike has done with the 470 and his double, that we might actually be able to help some of the double guys with better more reliable bullets! Then I get slapped across the mouth for it! I could give a Ryok about their doubles, I just thought we might be able to help someone, but they don't need any help it appears! Not all of course, just the loud ones I suppose!

Well, this morning I had ZERO EXPERIENCE with a double rifle!!!!!

This evening I now am an EXPERIENCED DOUBLE RIFLE SHOOTER in 577 Nitro, 500 Nitro, and 470 Nitro!!!!!!!!

ALL IN ONE DAMN DAY. Roughly 4-5 hours after posted I had never even shot one!

Now I ask you this, Is that kick ass or what??? WHO DELIVERS WHEN ASKED TO????????

Who Da Man?



Oh my god, this is so funny, I can't help but LMAO at this turn of events in one day!

OK OK OK, I will tell you "Who Da Man" is! Our very own Sam---SRose!

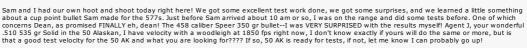
I had forgot Sam was bringing some of his doubles down today to play. I had not forgot about Sam coming, I had just not thought about him bringing some of his doubles with him! What a hoot we had!

We did some very good test work today, in 577, 500 Nitro, and 470 Nitro and I had a blast so to speak, and had lots of fun and really really enjoyed shooting the guns! I tell you, these guns don't have a nay recoil either, they are too big to have any! NICE NICE NICE SURS! Dont' ask me what they were, I know shit about doubles, but they were nice! I know they were not Vinchesters and that's about all I can tell you. I am sure Sam will tell you if you need to

So funny I have gone from zero experience to a few hours later now with experience testing 577-500 and 470 all within just a few hours! I promise, I did not plan that either, wish I had!

So question? Does this mean I can go post something on the "Double Rifle" forum, and not get run off, now that I have experience?





 $I\ did\ not\ have\ time\ to\ do\ photos\ and\ get\ anything\ specific\ posted\ today,\ but\ I\ will\ work\ on\ that\ in\ the\ morning.$

Hold, I am baby sitting tonight, have to go check baby

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

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posted 29 April 2010 02:36

458 B&M 350 Speer Muzzle Velocity 2343 fps 22 yd Impact Velocity 2269 fps X2-15 Inches Penetration Retained Weight 290-292 grs



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

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posted 29 April 2010 02:39

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Thanks Sam

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