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Terminal Bullet Performance

Page 1 ... 200 201 202 203 204 205 206 ... 304



posted 08 November 2011 23:26

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JTP

Testing 308 and below, most everything will be contained in your 15 inch box, until you start doing some NonCons! Then you will need a backup box. I think your methods are sound. I know if you are having to tote this to a range, then it can be a big hassle. Somewhere on some of the first few pages of this thread you will see what I do and my impact boxes. But I think you are dandy.

Now the PVC Sheets. Not familiar with those, but we talked about all sorts of methods here and what we, and I came up with is the laminated card stock. What I did not know to begin with, is that this witness card holds the wound channel, which is very good. But, it is also dependent on the amount of moisture content around it at the moment, so it is not 100% consistent, close, but not 100%.

Distance, I would suggest to begin with, in the small calibers, sometimes they do open quick, so I would have one at 1 inch, as you stated, then one every two inches, especially if you have an ample supply of material! Key, ample supply! After you do a few of these you will learn the best distances for what you are trying to obtain. Also depends on the type bullet.

When I first started with the Witness cards, expanding bullets, as I recall, I started at 2 inches, then had them every 4 inches for the big bores. As I continued, I found that anything over the first one or two was pretty much wasted. So now, like in these Raptor tests, I am just using 1 at 3 inches to show trauma and shear, mostly for my own use to find the shear and how.

With the solids I had one every 10 inches throughout the entire box, so my boxes are 64 inches, I had a total of 6. When doing serious Solid work, they are extremely valuable to show how the bullet tracks! But, they must also be placed EXACT along the entire path. Somewhat a hassle too! Today, I don't use that many, especially testing the BBW #13s. Mostly used to find the damned bullets easier. HEH.....

I think in the end, with the Witness cards, you will settle at starting either 1 or 2 inches in, then maybe a couple more spaced within the distance you expect penetration, the last one in will just be a hole is all, you will most likely stop using that one, don't tell you much with expanding bullets.

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"

For Sure, thank god to be testing at least a medium bore-WITH NO STABILITY ISSUES, thank you very much!

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



michael458 One of Us

posted 08 November 2011 23:51

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I appreciate JTP! Man, I might just screw old JTP into doing some of this small bore work! It drives me insane, the small bores! Well guess what? I got to play with my 338 WSM today, and the incredible 225 gr ESP Raptor! Notice some excitement here? Yep!

I have played 338 WSM for many years, from the day 300WSM stepped on the scene, I had one converted to 338! Both my rifles are 22 inch barrels, and of course both of them Winchester M70s, is there anything else? Not to me! Sad thing is, I have never used one in the field, all the time there was always something more important to take to the field, and we all know sometimes field time is limited! Shame, it's a wonderful little cartridge.

A few years ago I had Brian build one for me and it's the one I was shooting today. I have worked up several loads, even had pressure data too on many. Typical load was a 225 gr 338 with 62/RL 15. Depending on the bullet gives me 2650 fps on average with anything at 225. Yesterday I tried the 225 ESP Raptor, dropped it to 61/RL 15, 2785 fps, but a little sticky. So today, I dropped the load to 60/RL 15 and loaded the test loads for todays terminals. I did not try the load before hand, could have been a mistake, but I think not! I am finding two grs less powder with this Raptor is giving me about 100 fps more velocity! Hmmmmmm?



I started out getting POI at 50 yards. Loaded 2 rounds each, Standard NonCon--Talon Tipped NonCon, and of course Solid. Total, 6 rounds. This is the POI for those 6 at 50 yards. If I could shoot better this would be better too!



The test ran easy as could be. Starting with the Raptor in it's Standard NonCon configuration! If you go back to where we tested every 338 caliber bullet on the market, every one we could get our hands on, none of those gave penetration further than 18 inches as I recall.



I almost had the perfect test, then I remembered that I FORGOT to put the 3 inch witness card in, so I only got two rounds on the witness card for the NonCon.



Now, we add the Talon Tip and impact picks up quite a bit at 50 yds. As does performance, both trauma and penetration, in true BBW # 13 Style.



I thought trauma was massive with just the NonCon. With the Talon Tip added, and the extra velocity gained at impact, it went to EXTREME massive trauma inflicted. Trauma was immense to around 10 inches. These 4 rounds made absolute mush out of the medium.



Now I figured the Solid part was going dive deep. So I used all the material I had left to give me a full 64 inch box of test medium. I needed it too! Had I not done so, they would have passed through.



This is an incredible bullet! Just incredible. I have never worked with a 338 caliber bullet that is so capable.

Michael

 $\underline{http:/\!/www.b-mriflesandcartridges.com\!/default.html}$

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

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



JTPinTX One of Us



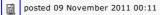
posted 09 November 2011 00:03

"Tote to the range," isn't that big of a hassle. I have the papers and boxes here in the shop, I save the newspapers out of the break room all year long. I load the box up in my office, put it on the two wheel dollies, and roll it out the back door of the shop to the "range." I shoot it, then I drive my pickup up to it and haul it home to dissect at my

Expanded PVC. Think a sheet of plastic, made out of PVC like the plastic pipe fittings, but with air blown into the mix as it is formed. It creates a substance kind of like styrofoam, but harder and more brittle, somewhat friable. Non water absorbing. I think it will fracture and show the wound channel good, maybe even more so than card stock. I may be wrong though. I think I will start spacing at 1, 4, 7, and 10 inches. Anything past that and you should be starting to come out of the vitals on the game I am talking about, at least starting with these little .224 bullets.

Posts: 417 | Location: TX panhandle | Registered: 08 November 2005









JTP

OK on the PVC stuff. Shoot it, hell we will find out! Might be great! 1-4-7-10 sounds fine, really no set rules, long as the next one you want to compare is the same.

OK if you are not toting to the range, and yes I do remember you saying right out the back door basically, AT WORK no less! HEH HEH.... Yeah, Me too. My boss likes to shoot and hunt as well, so I get by with a lot! HEH HEH... But he can be a real bastard sometimes! Don't tell him of course I said so!

Got some more photos in from Doc just a few minutes ago, the big 900 gr BBW #13 Is a BIG HAMMER!

Quote From Doc

quote:

Check out "the" bullet. Could reload it after penetrating the entire skull.





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

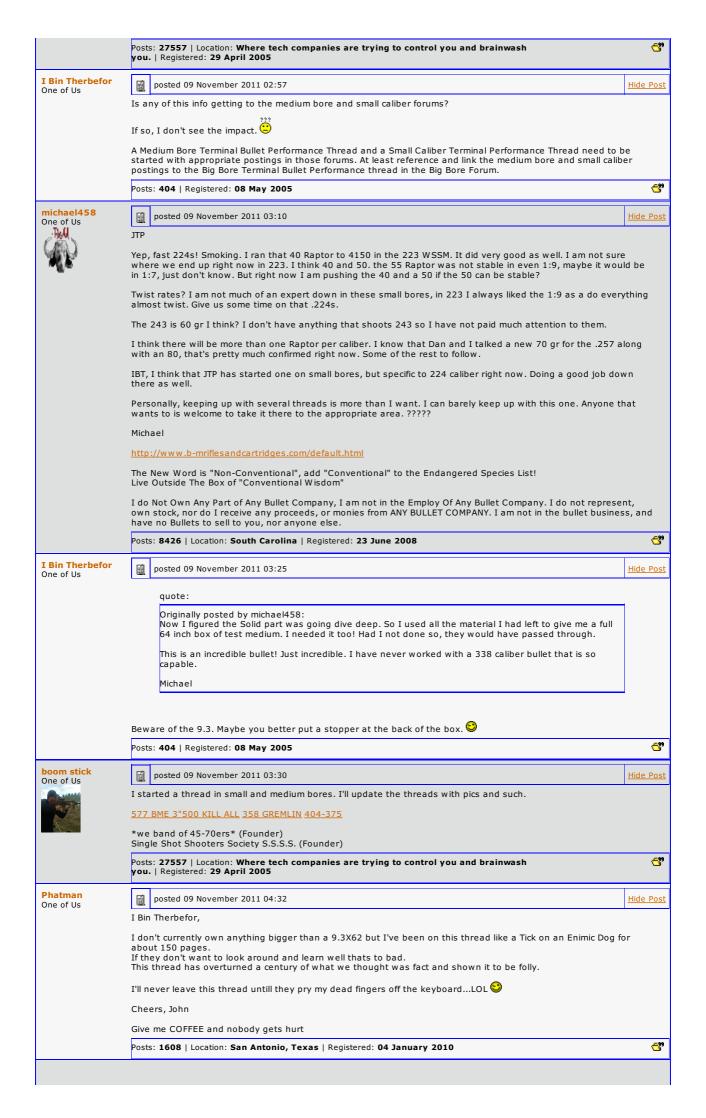
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Posts: 8426 | Location: South Carolina | Registered: 23 June 2008



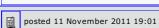






boom stick posted 11 November 2011 09:54 One of Us Yes diagonal complete penetration and I'm quessing straight line penetration of a pachyderm noggn is awesome That is some trophy bullet recovered he has 577 BME 3"500 KILL ALL 358 GREMLIN 404-375 *we band of 45-70ers* (Founder) Single Shot Shooters Society S.S.S. (Founder) Posts: 27557 | Location: Where tech companies are trying to control you and brainwash you. | Registered: 29 April 2005 michael458 posted 11 November 2011 14:37 One of Us quote: Originally posted by JTPinTX: am running my second round of tests today for my thread down in the small bore forum. It is the second group of conventional style bullets since I haven't gotten the Raptors in yet from Micheal. He is sending me his leftovers to put into my tests. Building a pretty good baseline of what is out there. Next series I plan to do a "best of" where I take the top preformers and run them again, throwing the Raptor and BBW 13 Non Con in there with them. Should be intersting. I am really looking forward to it. Here is a link to it: http://forums.accuratereloadin...6711043/m/1321077561 JTP Was in a big conversation with Dan vesterday afternoon and he has made some changes to the 55 gr Raptor, A change in bands, a change in length and meplats. It is now shorter than the 55 BBW #13 NonCon. Which is very stable in the 1:9 twist, and stable without the tip in my 1:12, but add the tip, and it's sideways at 50, in 1:12. It's going to be tested of course, so we see what we see. The Raptors DO NOT, relate to normal "stability" formulas! They are an animal of their own, and are going to require nothing but good old trail and error to get things sorted out. But as we move onward with them, get them right, get them stable in various calibers, well, extreme performance is the end result, in regards to what we are looking for in terminals. Michael http://www.b-mriflesandcartridges.com/default.html The New Word is "Non-Conventional", add "Conventional" to the Endangered Species List! Live Outside The Box of "Conventional Wisdom" I do Not Own Any Part of Any Bullet Company, I am not in the Employ Of Any Bullet Company. I do not represent, own stock, nor do I receive any proceeds, or monies from ANY BULLET COMPANY. I am not in the bullet business, and have no Bullets to sell to you, nor anyone else. Posts: 8426 | Location: South Carolina | Registered: 23 June 2008 **JTPinTX** posted 11 November 2011 18:55 幺 One of Us I think you are spot on as far as the stability factors go. The 55 BBW-13 (.224 diameter) shows not stable by the calculator on the JBM website, but the single test round I shot this morning did go point first through the target with no yaw that I could see at 50 yards. Gimme 30 minutes and I will have a few into a box at 100 and we will see. Posts: 417 | Location: TX panhandle | Registered: 08 November 2005

Rob H One of Us



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As noted in a couple posts before, the BBW #13 55 grain in .224 was not stable in my slow twist 22.250 (1:14 twist). but shot amazing groups in my 223 WSSM (1:10 twist).

Posts: 355 | Location: Sandpoint, ID | Registered: 24 February 2006

€39

JTPinTX

薑

posted 11 November 2011 19:31

Okay, BBW #13 is slightly understabilized in my CZ 527, 1-12 twist. Let me get some notes on my target so everyone can decipher it, and I will post it up. 40 ESP Raptor looks good. And BTW, I didn't put anything out he back of the box, but nearly. Those 55's dig deep. Liking that alot.

Posts: 417 | Location: TX panhandle | Registered: 08 November 2005

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posted 11 November 2011 20:50

Hide Post

Okay, first up I am going to post the actual 100 yard target I shot through. I was skipping around trying to get bullets in empty spots in the newspaper for terminal tests, so it looks pretty disjointed.

I think I have it labeled pretty self explanatory. The ones in question are in pink, those are the 55's. Kind hard to see in the picture but it shows up real well in person. Not totally sideways or anything, but they are all three slightly oval, enough to see for sure.



Nex up I am going to post a "composite target" that I made by placing the aim point for each individual shot on a common aim point and tracing off exactly the impacts. I needed to do this to try and get some basic targeting info. As you can see the 40 Raptor compared favorably with my go to Nosler load. If you go to the 55 though, groups are starting to open up significantly. That also tells me things aren't right and this bullet is not stable in my rifle.



I'll try and get to the penetration part of the test after lunch.

Posts: 417 | Location: TX panhandle | Registered: 08 November 2005



michael458 One of Us



posted 11 November 2011 22:03

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JTP

For sure, the 55 BBW #13 is not stable in your rifle. It's going to take a 1:9 to 1:10 twist to stabilize it. Like RobH, I have several, I never even considered it in one of my rifles with 1:14, tried it in a Sendero, 1:12 I am told, and it's great at 50, add the tip, all to hell then. In my 1;9 Twists, perfection tip and no tip.

Back to the range

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



JTPinTX One of Us



posted 11 November 2011 23:50

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Okay, ran my trailcams at lunch and I am going to have to bail outta here and go try and shoot one. Don't have much time right now but will get back to you guys later. Gotta load the last 5 40 ESP Raptors to take with m tonight, will use one if I can.

Quick results, 40 Raptors are in about the same class for me as the Nosler 60 Solid Base I have been shooting. Penetration a touch less, but damage real nice.

BUt damn, that 55 is SWEET. I don't know who does the design work, but PLEASE tweak that thing a little so a 1 in 12 will stabilze it. The one that stayed point forward went 12.5 inches deep, the two found sideways stopped at 111/4. the 40 Raptors stopped at 8.5 to 9, my NSB went 9.5 to 10.

I like that 55 so much I may try to chuck one in the lathe next week, turn it into a 50-53 and see if it will fly. It is just nearly there, and if it would...

I will go in more depth later, gotta get out of here ASAP.

Posts: 417 | Location: TX panhandle | Registered: 08 November 2005



boom stick



posted 12 November 2011 00:04

Hide Post

Being that bullets are tools and use the right tool for the job the light 40 grain Raptor you see keeps up with the best in terms of penetration but does a lot of damage. Compare the weight of the left over bullet of both if you can and post the results please. If I had a 22 and wanted maximum damage as a self defense bullet but wanted to limit overpenetration that 40 grain Raptor would be my choice. The redesigned 50 grain raptor should be tops in penetration and damage.

577 BME 3"500 KILL ALL 358 GREMLIN 404-375

we band of 45-70ers (Founder)

Single Shot Shooters Society S.S.S.S. (Founder)

Posts: 27557 | Location: Where tech companies are trying to control you and brainwash

you. | Registered: 29 April 2005





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