THE ACCURATERELOADING.COM BIG BORE FORUMS



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new member

7MMNut posted 31 July 2013 03:08

Hide Pos

auote:

Originally posted by michael458:

Originally posted by capoward:

That is a nice elephant. And if I haven't said it previously - that Bastogne stock really looks good on the .458!

Welcome to the thread!

.. None of these photos really show how good this stock is, and I have not photographed the rifle at home with this stock. It really looks great, Cappy....... None of these photos really show how good this stock is, and I have not photographed the rifle at home with this stock. It really looks great, and when I get home I will take some real proper photos of the rifle as it is now.... I swear this little gun has been a workhorse of a rifle, and has won a very special place with me at this point...... It is the most perfect 458 caliber rifle I have ever owned or had pleasure to work with.

I got a funny from Phil earlier today... He found my "Sling Page" on the B&M site, although he thought I looked funny in all the photos, he liked the way I worked with the sling..... HEH.......

As I keep telling all of you, "Slings Are For Shooting First and Primary" "Carry is only a Secondary Use".....

Note Purpose of Sling......... Momma caught me shooting at something, I think this was when I was shooting at the buffalo cow.... I LOVE THESE SLINGS.... .. The two I used recently on the lever gun and the 458 worked fantastic, and I would absolutely not go to the field without one. This BS about getting caught on brush while hunting DG is pure horse shit from BS that don't know what a sling is for and how to properly carry and use one in the field.......



Rhodes, mighty kind words, I do appreciate them greatly..... I know Sam does as well, we have talked much about these sort of things and the reason we do what we do....

DT500.... Welcome buddy to the thread...... And on this thread, Michael could care less whether its a double, single, lever, or bolt gun, BULLETS don't care and neither do I.... We have a good double crowd of chaps here, Todd comes to mind first, of course Sam, and many more, all are welcomed.......
Bore Size does matter... HEH HEH.......

Gees, ONE MORE DAY, and we Leave on Thursday.......



Nah Michael the laugh was on me. I thought I had perhaps come across something new in how to use the sling to tame the recoil. And then afterwards found out on your website, you'd beat me to it and bettered it.

Posts: 584 | Location: Phoenix, AZ | Registered: 13 August 2004

G.

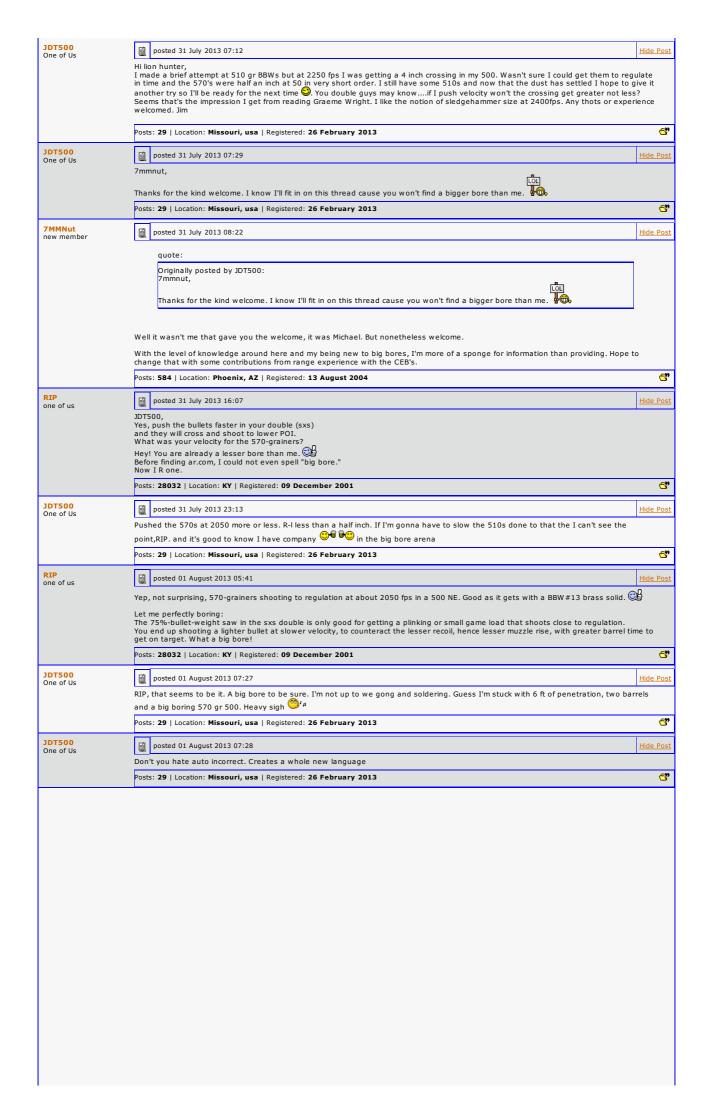
pagosawingnut One of Us

posted 31 July 2013 05:02

Great pics, as usual, a great hunt report. Hell you may single handedly change up conventional thinking on bullet design and performance. Great job.

Posts: 4214 | Location: Southern Colorado | Registered: 09 October 2011

€"





NOT Rats, we shoot elles and buffaloes with 416's-

silly person



Posts: 3818 | Location: kenya, tanzania,RSA,Uganda or Ethophia depending on day of the week | Registered: 27 May 2009



posted 13 August 2013 01:20

Hide Post

I found this upstairs, on Kebco's hunting report.. Yes, I stole it, and thought it relevant here. I found it interesting... Apparently Kebco shot a buffalo with a Hornady DGS... 450 Nitro I believe, not sure what weight Hornady DGS... either 480 or 500 gr?? At any rate, it turned around backwards and almost exited backwards.. Obviously not "Terminally Stable".......

Just FYI..... And if Kebco gets pissed, I will give it back to him... He posted it anyway to begin with...... I just thought it interesting....



etobucke

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

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

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One of Us

posted 13 August 2013 01:50

Maybe that's all it penetrated!!!!!!!!!

Posts: 2823 | Location: NC | Registered: 08 July 2006

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michael458 One of Us

posted 13 August 2013 02:19

Originally posted by srose: Maybe that's all it penetrated!!!!!!!!!



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

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boom stick One of Us



posted 13 August 2013 06:22

Hide Pos

Twist?

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: 27558 | Location: Where tech companies are trying to control you and brainwash you. | Registered: 29 April 2005

639

RIP one of us

posted 13 August 2013 09:54

Hide Post

Doc M,

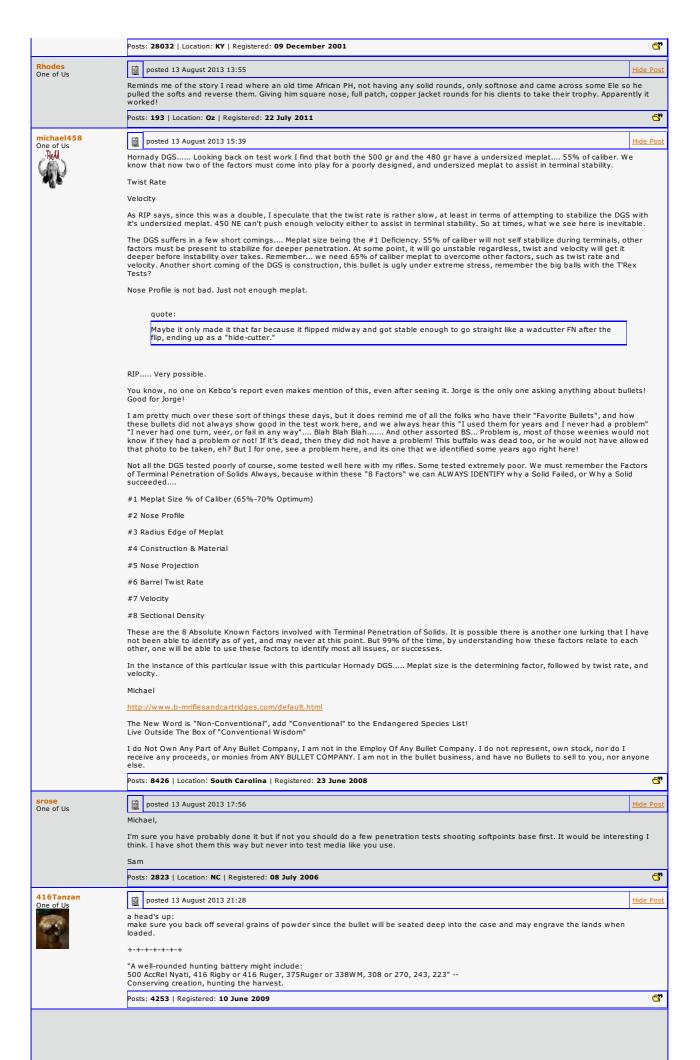
Not bad for what is essentially a round nose solid.

It did not flip until the terminal few inches or the base would have been deformed ... or would it, that is a stout steel jacket, eh?

It did not flip until the terminal few inches or the base would have been deformed ... or would it, that is a stout steel jacket, eh? Maybe it only made it that far because it flipped midway and got stable enough to go straight like a wadcutter FN after the flip, ending up as a "hide-cutter."

A Verney-Carron 450 NE double probably has the standard CIP twist of 1:381mm = 1:15". That is one reason the old granddady of all NE cartridge double rifles was so effective and spawned a herd of me-too double rifles. Not a bad twist.

Celebrate the "Special" doing something "special" despite severe handicaps.



posted 15 August 2013 10:50

Well Michael, I finally went and done it. I just took delivery of two boxes of 825gr .620 NonCons. Hell of a hollow point! Now I gotta lure a great big pig inside an old car, shoot through the trunk, and hope to recover the bullet somewhere in the radiator. This thing really needs a "tip" and a 13 degree boattail.

We Band of Bubbas N.R.A Life Member TDR Cummins Power All The Way Certified member of the Whompers Club

Posts: 2970 | Location: South Texas | Registered: 15 January 2008



posted 15 August 2013 15:09

Hide Pos

HEH... About time.... That is a wicked bullet..... Keep us posted on how you like it....

I finally dug out the bullets I recovered from critters on my recent trip, logged them in, tagged them and even have some photos for you... Start off with some 250 gr 458s.....









Some of the 250 #13s did not exit, and were not found. Most of the 250 Socoms exited. All exited plains game, including zebra. Just as in the test work here, the Socom gave just a little extra penetration of the main bullet.

This was the only 450 gr #13 Solid from the 458 B&M recovered. This was found in the rear section of that big hippo that was brain shot with the 250 Socom. This was just a backup shot, and not needed, but done anyway. Point of right shoulder---to rear left estimated 6 ft.



That first hippo with the 50 B&M Alaskan, I hit him 4 times with the 405 #13 Solid at 2120 fps. Recovered 3 of those bullets, one of which contacted some heavy bone as you can see.......



Another solid was recovered from the buffalo I took with the 50 B&M Alaskan. The rest exited, but this one hit point of shoulder and found on right rear... It also hit some heavy bone up front and took a beating... But even so, completed its mission just fine.

50 B&M Alaskan
1:12 Twist Rate 18" Barrel
7/2013
405 BBW#13 Solid
Muzzle Velocity 2120 fps
Buffalo 20 yds
Front Left shoulder to Rear right
hip
Estimated 5 feet cket
Dead Straight





Construction and Material IS important, and an important factor in solid penetration. A lesser solid, say a FMJ component bullet would not have faired so well............

Below is the first shot on that buffalo taken with the 50 B&M AK... 365 gr #13 HP NonCon, behind the shoulder shot.. As you see, it clipped a rib pretty hard on entry, and continued to the far side, and even cut a full caliber hole on the far side, but just did not have enough velocity at that point to jump out of the skin....



The elephant was taken with a 458 B&M, 450 gr #13 Solid at 2210 fps... This bullet went through right shoulder... heart... Exited left shoulder and may still be going..... However, a Poacher bullet was found in my elephant.... Appears to be .308 caliber, too mangled up to say for 100% sure, and was without doubt a pointy FMJ that I have 100% confidence that it veered and tumbled. It was found under the hide on entry on the left shoulder, penetration not much, 2-3 inches, and had caused a huge lesion about 4-5 inches diameter. Not an expert on this, but would guess about a month old or so.....



Michael

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

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srose One of Us

posted 15 August 2013 17:01

Nothing like real animals to test bullets. Amazing that even brass gets torn up hitting bone and what not. Just think of what a similar weight cup and core bullet would look like!!!!

Posts: 2823 | Location: NC | Registered: 08 July 2006

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posted 15 August 2013 17:10

Hide Post

Originally posted by michael458:

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Start off with some 250 gr 458s......







Muzzle Velocity 2900 fps
Cow Buffalo
Enter Rt Side behind Shoulder
Found on far side under skin



458 B&M
1:14 Twist Rate 18" Barrel
7/2013
250 Socom NonCon HP
Muzzle Velocity 2900 fps
Hippo Brain Shot let
Found in back of skull



Some of the 250 #13s did not exit, and were not found. Most of the 250 Socoms exited. All exited plains game, including zebra. Just as in the test work here, the Socom gave just a little extra penetration of the main bullet.

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Since we turned ANOTHER PAGE.... I did not want anyone to miss these....

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

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posted 15 August 2013 17:11

auote:

Originally posted by srose:
Nothing like real animals to test bullets. Amazing that even brass gets torn up hitting bone and what not. Just think of what a similar weight cup and core bullet would look like!!!!

Exactly.....

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

boom stick One of Us

posted 16 August 2013 00:34

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That 365 and 405 in the BMAK did a fantastic job. Anything you would change or do diferent?

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: 27558 | Location: Where tech companies are trying to control you and brainwash you. | Registered: 29 April 2005

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RIP one of us

posted 16 August 2013 08:15

Interesting terminal bullet pictures. RIP-ed those critters efficiently.

The bullet looks like a black-tip AP .308 that flipped over and opened up its tail like an umbrella/drag 'chute. Black-tip AP 50 BMG hitting water will do the same thing, swims with the fishes shallowly, briefly, then sinks slowly.

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

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posted 16 August 2013 15:28

Hide Pos

quote

Originally posted by boom stick: That 365 and 405 in the BMAK did a fantastic job. Anything you would change or do diferent?

As for the design of these two bullets..... No, I would do nothing different, as both performed exactly as I had anticipated.

Buffalo for any expanding or trauma inflicting bullet is the Ultimate Challenge for any bullet. In any traditional lever gun, we are limited by the pressures we run... 45000 to 50000 PSI in modern traditional actions... in this case specifically Marlin 1895 and Win/Brown M71s.... In my Marlin 50 B&M AKs I had to be one grain less powder and about 50-75 fps less than in the M71s. And I pushed the M71 to MAX... I tried one more grain of IMR 4198 above what I used, and it was getting sticky. So max in the M71 with the 365 was 2175 and with the 405 2120 fps.... The 365 is a balancing act between weight and penetration, and velocity and trauma/penetration. I could have used a heavier HP or NonCon, and got a bit more penetration but probably some less trauma.... Really, in the end, not sure it would have made any difference at all in this particular buffalo, as the 365 cut a caliber hole in the far side, but just could not make it out. Some would say perfect performance, and I could not argue that point.

Personally however should I hunt ole buff with the 50 B&M Alaskan in the future, I would go with straight up 405 #13 Solids and rely on that 67% meplat, 2120 fps, and deep penetration to do all the damage. Use the 335 and 365 #13 HP NonCons for everything less than buffalo....... I like "Penetration".... Period!

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



new member 1500



posted 21 August 2013 17:24

I worked at Alliant Tech Systems for many years, we made 25mm and 30mm munitions for the military.

The penetrating portion of the projectile was either Tungsten or Depleted Uranium. The shape of the penetrator was very similar to these new bullet shapes, I and my shooting friends at work never thought to make bullets like that, but we hunted Deer in Minnesota.

Posts: 16 | Registered: 30 July 2012





posted 22 August 2013 06:59

Hide Pos

I am curious about how light weight BBW13 solids penetrate compared to a bowl nose BBW13. All things the same but a concave nose like the Hydro Woodleighs

we band of 45-70ers* (Founder)

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

Posts: 27558 | Location: Where tech companies are trying to control you and brainwash you. | Registered: 29 April 2005



I Bin Therbefor One of Us



posted 22 August 2013 07:49



Originally posted by Dresden:

I worked at Alliant Tech Systems for many years, we made 25mm and 30mm munitions for the military.

The penetrating portion of the projectile was either Tungsten or Depleted Uranium. The shape of the penetrator was very similar to these new bullet shapes, I and my shooting friends at work never thought to make bullets like that, but we hunted

I was under the impression that depleted uranium was used because when it hit armor plate it sheared into a wedge shape and continued to do so during its entire penedration. A sort of self sharpening wedge.

Posts: **404** | Registered: **08 May 2005**



michael458



posted 23 August 2013 16:04



I am curious about how light weight BBW13 solids penetrate compared to a bowl nose BBW13. All things the same but a concave nose like the Hydro Woodleighs.

Same concept as the North Fork FPS and CPS..... Which we have done.

However, long before I started this thread, I did something similar with the Lehigh 510 gr Copper Solid I used before BBW #13s.... in .500 caliber.... JD had David do a shallow cup point in that 510 gr .500 bullet. Testing there was zero difference between the standard flat nose and the shallow cup in penetration depth or stability... because the cup was shallow.

John at North Fork explains this concept perfectly. The CPS.. Cup Point Solid.... fools the medium, any medium, animal or test, into believing the meplat is much larger than it is, because of more surface area up front, the cup point. Imagine taking the surface area present in the North Fork CPS and flatten that out into a flat surface how large the meplat would be....... Then you begin to understand how it works.

Two things.... With added Surface Area it does produce more trauma inflicted. It also has to penetrate LESS because of larger surface area in contact with test medium...........





Michael

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

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

₫°

RIP one of us posted 24 August 2013 03:18

Hide Post

Need to shoot those Cup Points faster and make them expand some!

Is North Fork Copper (FPS and CPS) "full hard" instead of only "half hard" like a GSC FN solid?

 $\label{thm:continuous} \mbox{Heat treating difference or is the North Fork alloyed with some trace metals, not pure copper?}$

Does the Cup interfere with cavitation at the leading nose surface of the bullet and thus make for more drag and tissue destruction? Yes that would be another way of saying it causes a greater surface contact at the nose ...

Alf might say more wetting of the nose?

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

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RIP one of us



Above is the .395 Tatanka loaded with Copper GSC FN .395/340-gr and Brass S&H FN .395/330-gr solids.

Fired with the same powder charge, and seated as shown above (less case capacity with brass bullet than with copper bullet): The GSC FN gave a little over 2700 fps and scored 7 on the IWBB-2-boards-per-waterbucket scale. The S&H FN gave a little over 2800 fps and scored 8.

The Copper FN nose expanded noticeably on initial impact with water. The Brass FN nose expanded only a few thou in diameter, by caliper measure.



S&H Brass stopped in the second board behind the 8th bucket, higher velocity made it more explosive in the first water bucket too:



GSC Copper expanding FN stopped in the first board behind the 7th bucket.



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

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Hide Pos

one of us

posted 24 August 2013 03:51

Here is another Copper Cup Point, custom made for/by member Andre' (aka Jeffery in Denmark) for his 500 Jeffery, a 550-grainer that I shot at just over 2300 fps (5-yard chronograph velocity 2306 fps), impact was at about 25 yards, and it still expanded. Pure, "half hard" copper?





Above is before and after firing into the IWBB-3-boards-per-waterbucket scale, a tougher scale, where it scored a 5. This the backstop behind the 5th bucket.

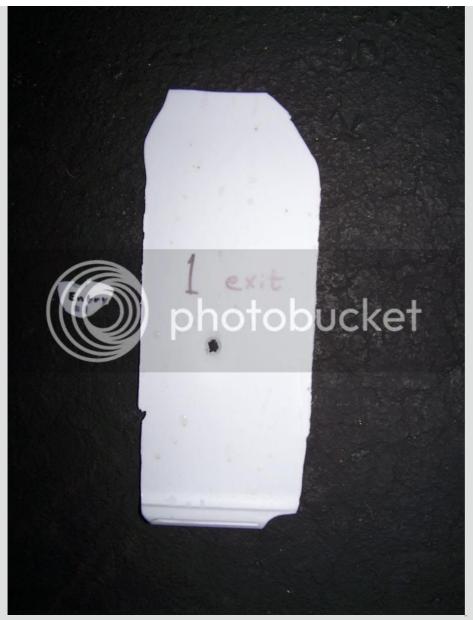
Bullet was found lying on the ground beneath this board:



Entry area, first waterbucket exploded, and entry-ported board cracked up. Frozen water drips on the stainless steel square tubing and angle iron buffalo skeleton:



First bucket entrance wound on left, and exit wound from back of the bucket on right, the latter being in the biggest fragment remaining from that first bucket:



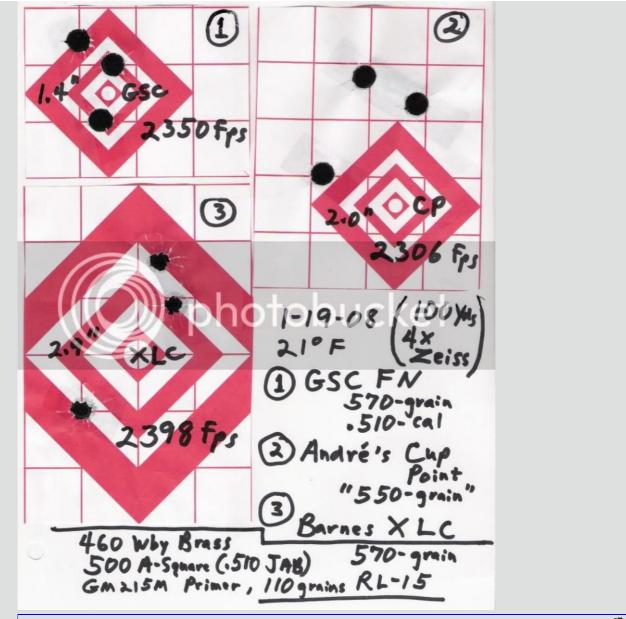
Final (5th) bucket entry wound:



 $Backend\ of\ the\ IronWaterBoardBuffalo-3-boards-per-waterbucket\ scale,\ 10\ compartments\ 10"\ deep\ each,\ 100"\ from\ nose\ to\ tail:$



Shot with 23"-barreled 500A2 aka .510JAB, 1:10" twist:



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

posted 24 August 2013 21:08

Hide Pos

OK, so water is harder than wet newspaper on the initial high velocity impact

The paper pulp fibers and print ink chemicals (surfactants) break up the water surface tension/internal adherence ("visco-elasticity" \bigcirc), and make the mix softer than water alone.

That may be why water will expand a copper cup point and wet pack won't?

Similar bullets, similar velocities (Doc M's North Fork CPS and Andre's Custom Copper Cup Point, both impacting about 2200 fps): One expands and the other doesn't.

If it is not a difference in bullet materials (1) and/or designs (2), then it is a difference in the resistance of the impact medium (3) at that velocity.

Or all three factors are at play.

And there is a 4th: Sectional Density

Greater SD will make an expanding bullet expand more at any given velocity in any given medium.

.458/450-grain SD = .306.510/550-grain SD = .302

So SD is not a factor here (North Fork vs. Andre's Cup Point).

If the **R**esistance of water impact medium is a function of **V**elocity squared (V^2): $R = V^2$

For a first-order medium like wood or dry newspaper: R = fV

For wetpack? $R = fV^X$ where (1 < X < 2)?

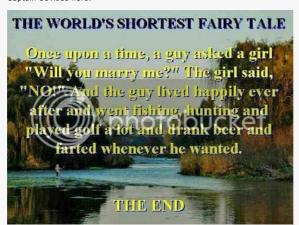
Game animal impact medium is not quite as tough as wetpack, so the exponent for game animals is Y, and 1 < Y < X < 2.

The Iron WaterBoard Buffalo combines two media: Wood exponent = 1, water exponent = 2.

At high velocity in the head end of the buffalo, the water resistance is high, and wood resistance is low At the low-velocity tail end of the buffalo, water resistance is low, minimal, but the constant resistance of the wood then dominates. So the variable resistance has a changing exponent that goes from 2 to 1 as it traverses the buffalo, but this is in a uniform, repeatable manner.
This is not quite like a real game animal, where the exponent must be bouncing around between 1 and 2, variable all along the bullet path, unpredictable, and different for each shot with any change in animal position or bullet placement.

So, Wetpack is repeatable, good. Nonlinear, but with constant exponent: Repeatable.
Iron WaterBoard Buffalo is good too. Nonlinear, but with repeatably varying exponent: Repeatable.
Real game animal is bad for penetration testing. Nonlinear but with non-repeatable variance of exponent: Non-repeatable.

Captain Obvious here.



I have 3 Penetration Scales for the IWBB, each with 10 compartments that are each 10" deep (100" long buffalo), one waterbucket (approx. 9" of water travel per flat-sided bucket) in each compartment backed by board(s):

1. Single 1/2"-nominal plywood board per waterbucket: IWBB-X

- Double boards per waterbucket: IWBB-XX
- 3. Triple boards per waterbucket: IWBB-XXX

New Scoring refinement: Each bucket penetrated fully = 1.0

A bucket penetrated on one side only, even if backside of bucket is dented = 0.5 Additional points for boards in compartment: First backing board stop, not penetrated = 0.0 First board penetrated, stop in second backing board = 0.25

First and second boards penetrated, denting or stopping inside third board = 0.50 Bullet protruding from backside of third board of compartment but not penetrating next bucket = 0.75

S&H .395/330gr FN @2800 fps: IWBB-XX Score = 8.25 GSC .395/340gr FN @2700 fps: IWBB-XX Score = 7.00

I am guessing the IWBB-XX Score if multiplied by 10" would be close to DocM's WetPack inches of penetration: S&H brass FN: 82.5" GSC copper FN: 70"

I do not think his WetPack of 6-feet depth will contain the S&H. ³

Andre's .510/550gr Cup Point at 2200 fps impact:

Tougher Scale, IWBB-XXX Score = 5.0
Half way through the IWBB-XXX.
I was hoping to load a 570-grain Brass or Copper FN solid in a 50 BMG

and see how much velocity it takes to get to the tail end, IWBB-XXX Score = 10.00 if it touches the board behind the 10th waterbucket.

But at greater than 2800 fps, even the brass will expand or maybe even shatter \dots I would want to start testing at 2800 fps impact, no more. Purely academic interest.

.510/570gr GSC FN at 2800 to 3000 fps from a 50 BMG?

.408/385gr GSC FN at 2800 to 3000 fps? SD = .330

Monometal copper won't shatter but the nose will expand considerably.

Higher SD of the .408 would make the nose expand more ...

Trade-offs

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