

This topic can be found at:

<https://forums accuratereloading.com/eve/forums/a/tpc/f/4711043/m/2861098911>

416Tanzan

07 September 2010, 18:33

Terminal Bullet Performance

Also, I just checked Ruger's site for the twist on the Ruger Alaskan in 416 Ruger. the twist is listed as 14". Too bad.

It would be nice if Ruger would reconsider using a 12" twist. But in the meantime, anyone getting a 416 Ruger can simply plan on using 350 grain bullets. Those can be handloaded to about 2600 fps and will take anything on the planet, easily.

+ + + + +

"A well-rounded hunting battery might include:

500 AccRel Nyati, 416 Rigby or 416 Ruger, 375Ruger or 338WM, 308 or 270, 243, 223" --

Conserving creation, hunting the harvest.

srose

07 September 2010, 19:27

Michael,

Thanks for digging the 416 data up. It looks like I will be fine with a 1-14 twist in the 416 B&M.

Have you shot the capo bullets yet?

Sam

hughman

07 September 2010, 19:28

Hi Michael;

Just because you haven't heard from me for a while doesn't mean that I have not been following your adventures (and those of your associates) with great interest.

The hollow base tests are very interesting. I can understand that the "Dart Affect" due to having weight forward should improve stability, but the other point of view that the outer surface shape and dimensions trump weight is also interesting. That brings to mind that Barnes has been saying for years that their copper bullets allow one to take a step down in bullet weight without loss of performance. Isn't that another way of saying the same thing?

Hugh

416Tanzan

07 September 2010, 20:27

quote:

That brings to mind that Barnes has been saying for years that their copper bullets allow one to take a step down in bullet weight without loss of performance. Isn't that another way of saying the same thing?

I think that if the Hollow Base observations hold true, then we can go down in bullet weight TWO STEPS. One step because no lead will be lost during penetration and a second step because we won't even need all of the weight from the first step.

If a .416 350 grain can do what a 400 grain open lead tip can do, then a hollow base solid at 315 grains may do what a 350 grain solid would do.

I'm still a bit 'curious' of the idea.

Maybe we can have some 350 Barnes hollowed out to 310-320 grain?

+ + + + +

"A well-rounded hunting battery might include:

500 AccRel Nyati, 416 Rigby or 416 Ruger, 375Ruger or 338WM, 308 or 270, 243, 223" --

Conserving creation, hunting the harvest.

capoward

07 September 2010, 21:16

Now this will be interesting. What effect will HB'ing a .416 350gr Barnes BND solid have on its penetration performance?

Hum...Rounded off the .500 360gr BBW HB FN Solid was 84% of the weight of the original .500 429gr BBW FN Solid. So...does the HB work at a static 16% weight reduction from the original bullet? Or does one also consider the difference in bullet diameter when computing the % of weight reduction? By this I'm questioning whether the resulting HB solid should be 294gr (16% reduction) or 305gr (13% [83% of 16%])?

Or perhaps, as I don't have a HB bullet to measure, the appropriate manner to compute the correct weight...is to weight it after removing the identical % of length and % of diameter removed from the original bullet by the HB process?... Which may or may not equal either of the above weights...or come close to the weight range requested by 416Tanzan.

Jim 

"Life's hard; it's harder if you're stupid"

John Wayne

srose

07 September 2010, 23:03

I think with the hollow base bullet we have the dart effect and also the rock in a sock effect. You can only reduce the weight to a point at which the tail stays lighter than the nose. If this is something worth looking into further I will make another set of bullets for Michael to test if he wants to do it.

Sam

michael458

07 September 2010, 23:54

Hey Hugh

Still hanging around, good. The HBs are extremely interesting, and somewhat of a surprise to everyone I think. Certainly to me for sure. Flies in the face of SD eh?

Sam if you make anymore HBs, make the #13s.

Yes, I did get the Capo bullets shot, still working on lot's of data, photos and such. Did they expand? No, they did exactly what a brass non con does, the entire HP shears off, and they penetrate like hell, just like they are supposed to do. Except the shearing effect is different, petals do not shear off, as it has no petals, whatever shears does so inside the wound channel like the copper non cons with petals. So that tells me the nose is hanging onto the bullet longer, transfers lots of trauma. Should have reports ready by in the morning? I am about whipped now.

M

<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.

michael458

08 September 2010, 00:00

Question? Are you guys getting any good at all out of the photos of the witness cards showing trauma and size of wound channels?? I am not sure you are interested in that, or if I am wasting my time posting it? Have not heard much about it.

M

<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.

michael458

08 September 2010, 00:08

Another question for the crowd, quite a bit of lurkers out there, I just ran across an old photo of a friend of mine from years past, in the middle with the cowboy hat, Val Robb from out in Utah. Anyone remember or ever know of Val? Big time cat hunter, him and his boys. Val died a few years ago, he sure was a hoot. Fond memories I suppose



<http://www.b-mriflesandcartridges.com/default.htm>

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.

srose **08 September 2010, 00:14**

Michael,

All sounds good and if you want the noses to blow off those Capo bullets I can make that happen also. Look forward to seeing the results!

Man those #13's are the hardest to make but I can make a few HB ones if you like. Would you like some heavier or lighter than the 506's? Sure you don't just want a Woodleigh RN with a HB?

Sam

michael458 **08 September 2010, 00:20**

quote:

Originally posted by srose:
Michael,

All sounds good and if you want the noses to blow off those Capo bullets I can make that happen also. Look forward to seeing the results!

Man those #13's are the hardest to make but I can make a few HB ones if you like. Would you like soom heavier or lighter than the 506's? Sure you don't just want a Woodleigh RN with a HB?

Sam

Sam

The noses DID blow off the Capo bullets, an excellent job! If they had not blown off they would not have been stable.

#13s lighter with HB than 500. I am going to have CEB do .500s #13s at 500 grs, brass this time. Have to do some nose to mouth measurements, try and get a 425 or so for the lever guns, but has to have a short nose to fit and work thru the Marlins. Make this to match up with the New North Fork 450 Bonded. Should be a good pair. I think the North Fork FPS will work in M71s, but not in Marlins, nose too long.

Yes, a few HB #13s are in order.

I'll be damned, you have come up with it again, finally a solution that MIGHT stabilize a Woodleigh FMJ! You are a genius Samuel!!!! Woodleigh Fans up on the African Forum will bow down at your feet now!



<http://www.b-mriflesandcartridges.com/default.htm>

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.

capoward **08 September 2010, 01:37**


quote:

Question? Are you guys getting any good at all out of the photos of the witness cards showing trauma and size of wound channels?? I am not sure you are interested in that, or if I am wasting my time posting it? Have not heard much about it.

M

Michael,

Yes the witness cards are valuable...especially seeing the amount of damage the #13's did compared to earlier nose shapes.

Jim 
"Life's hard; it's harder if you're stupid"
John Wayne

srose **08 September 2010, 02:05**

Michael,

OH GOSH I have messed up again haven't I! Started another brain twister! You have a .510 gun of some sort don't you? I found some .510 570 grain Woodies that I can HB for you. I know I won't shoot them in anything of mine.

One other thing , now I have to make lever action #13's!!! OK I can do that!

Sam

michael458

08 September 2010, 02:21

Sam

No, don't make any #13s for the lever gun. I will have Dan do that at CEB. I will send out tomorrow with Nose to Mouth lengths so they will work in the damn Marlins! I swear I should just used all M71s and no Marlins, but you know how folks are, Marlins are half the startup cost of a Browning M71. So what do you reckon?

I got the lever bullet covered. Just have to put a band up to the right nose and mouth length is all.

Yes, have 510 Wells and #1 in 50 AK and what, a damn Marlin in 50 AK. So I elect the 510 Wells to test the Woodleigh RN FMJ with a HB!

<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.

michael458

08 September 2010, 02:23

Hey Capo and Sam, want to see the Pointy Capo Bullets??

<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.

michael458

08 September 2010, 02:27

Ok I don't have time to wait for a reply.

Remember these?



Well they are not so pointy now!

500 MDM
1:12 Twist Rate
435 BBW Br HP Spire
Muzzle Velocity 2553 fps
45 Yd Impact Velocity 2380 fps
Retained Weight 364
X1--26 Inches Penetration

50 B&M
1:12 Twist Rate
435 BBW Br HP Spire
Muzzle Velocity 2321 fps
45 yd Impact Velocity 2191 fps
Retained Weight 375/381
X 2---23 Inches Penetration



435 BBW Br HP Spire
Muzzle Velocity 2321 fps
45 yd Impact Velocity 2191 fps
Retained Weight 375/381
X 2---23 Inches Penetration



5004
H35 BOU
Br HP



photobucket





<http://www.b-mriflesandcartridges.com/default.htm>

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.

michael458

08 September 2010, 02:29

EZ--Tanzan

I will have more 416 stuff ready in the morning! Should be rather interesting for 416 guys!

Michael

<http://www.b-mriflesandcartridges.com/default.htm>

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.

michael458

08 September 2010, 02:45

quote:

Originally posted by 416Tanzan:

quote:



Look at how short the expanded 400 grain A frame is. Short has always contributed to stability, so it may be that the monometal expanding 400 grain bullets in 416 are just remaining too long for a 14" twist. the Nosler Partitions must be right on the edge of the parameter. And if 14" is too long, then I certainly don't want to try them in a 16.5" twist in a live situation.

I would guess that 12" twist would be sufficient. On what grounds? The fact that you are getting 22" penetration means that the bullet is probably not tumbling at the beginning but towards the end of its journey. Secondly, Barnes uses a 1 in 12" twist for its tests and that may be telling us something.

Tanzan

Yes, very important point, I think I made it under the 400 Nosler and Barnes, that they are not tumbling, turning backwards or sideways until the last 3 or so inches of penetration, so at the end of penetration they have lost stability. Not at the beginning or even the middle of penetration, but the end.

M

<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.

srose **08 September 2010, 03:11**

Michael,

Well those Capo bullets did mighty good didn't they? I didn't think the nose would blow that good with as small a hollow point.

Capo

That design of yours was impressive huh! So now you have a long range 500 bullet!

Sam

capoward **08 September 2010, 04:21**

quote:

Originally posted by michael458:
Ok I don't have time to wait for a reply.

Remember these?



Well they are not so pointy now!

500 MDM
1:12 Twist Rate
435 BBW Br HP Spire
Muzzle Velocity 2553 fps
45 Yd Impact Velocity 2380 fps
Retained Weight 364
X1--26 Inches Penetration

50 B&M
1:12 Twist Rate
435 BBW Br HP Spire
Muzzle Velocity 2321 fps
45 yd Impact Velocity 2191 fps
Retained Weight 375/381
X 2---23 Inches Penetration



435 BBW Br HP Spire
Muzzle Velocity 2321 fps
45 yd Impact Velocity 2191 fps
Retained Weight 375/381
X 2---23 Inches Penetration



500
435
Br HP



photobucket





Yahoo!!! Very impressive results! Michael thank you for putting it through the box!. Just had to post those pictures again!

quote:

Originally posted by srose:
Michael,

Well those Capo bullets did mighty good didn't they? I didn't think the nose would blow that good with as small a hollow point.

Capo

That design of yours was impressive huh! So now you have a long range 500 bullet!

Sam

Yes we truly now have a long range .500 caliber bullet! Sam thank you for taking my very poor drawing and making a truly functional bullet out of it!

Now it's out to the garage so that I can measure up all the dimensions and correct my sketchy draft bullet in QD...so that I can play with it in QL and QT.

RIP...I won't get the velocity you do with your Mobogo & GSC bullet but I think Sam's 435gr BBW Br HP Spire will do more than just fine out of my 50 MDM!!!

Jim 🤖

"Life's hard; it's harder if you're stupid"
John Wayne

michael458

08 September 2010, 04:57

Yes, the BBW Pointys did the job. I tested the 416 Barretts HPs, made of brass, they performed the same way, in test medium and buffalo flesh. Some sort of HP. These bullets will have to be made of brass to perform like this. I have not checked BC yet.

M

<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.

eezridr

08 September 2010, 06:04

Michael,

Thanks for conducting these tests. You confirmed my suspicions that the larger caliber NPT's have had their partitions moved forward in order to maintain more weight post impact. Your results revealed +80% weight retention after shedding the front core. On 338 and below I believe 63% is typical. Their penetration performance appears equal to the 400 gr Swifts and Barnes 400 gr TSX even though they both maintained about 100% weight retention after impacting your test medium. I like this 416 NPT; IMHO the shrapnel effect of the front core letting go should produce some lethal effect.

EZ

quote:

Originally posted by michael458:

EZrider sent some samples in for me to test that I did not have last week. He requested some more 416 work with 400s at 2400 fps, and some 350s at 2550 or so. I managed to meet that goal so far, and then a little more. EZ sent some 400 gr Nosler Partitions, 400 gr Barnes X and 370 gr North Fork Bonded Cores. I am providing the 350 Barnes X, 350 Swift A, North Fork 400 FPS and 370 CPS that you see on page 91, as Tanzan has taken us over to Page 92. I knew this thread would'nt amount to much. Who has an interest in this anyway? Boring!

I am working these in this week and have a good start. Have to make up some new boxes of medium this morning however!

First up, 400 Nosler Partition!



400 Nosler Partition does what Partitions do, shed the nose, which honestly was good 50 yrs ago or so, but I don't care for that these days myself. But I don't think that had much to do with overall penetration, the issue here is stabilization once again in 416 caliber. Still shooting the same 416 Rem in a Win M70 1:14 twist, not even the Noslers stabilized. Two of the 3 bullets tumbled near the end of penetration, and found backwards, penetration to 21 inches. The one that managed to stabilize dug in for an added 2 inches of penetration, to 23 inches, nose forward, and intact. Regardless of this, 21-23 inches is well within buffalo vitals, remember, 80% to 100% increase in penetration in animal tissue. So these will do!



Trauma inflicted was typical and good, no issues there.

M

RIP

08 September 2010, 06:28

Doc M,
Just FANTASTIC WORK!!!
Of course the witness cards are great: I think I goaded you into that bit of scientific documentation for posterity.
They are especially enlightening when they show where the brass nose fragments come off in a starburst inside the medium.
You are just presenting so much stuff, I have a hard time studying it all and commenting in a 24-hour day.

The .500/435gr brass NONCON "CapoWads" will be super big game bullets for any job needing a soft point. 🍀

And now, for the record, I have finally recovered a NONCON from a game animal:



Just now, tonight, after a hard day at the office, I cooked some deer tenderloin on a George Foreman Grill. Bit into it and voila: Brass deathstar ray!!!

Just short of 2 years for the recovery, and down to the last bites of Bambi's mother.

Of course it is the S&H .395/310-grain Brass VeloHexploder.
1600 fps, 2100 fps and 2600 fps explosions in water buckets are pictured here.
Note that the faster it goes, the more uniform the primary missile remnant, and the better the wounding from both the six secondary and one primary missiles.



This bullet also establishes the new standard for big game rifle accuracy, as center-to-center 3-shot group at 100 yards should be no bigger than caliber of bullet:



(The scope is in Talley QD lever rings, was not adjusted since 2008 deer season, except it was removed from rifle to check peep sight, then replaced for this test fire, scope check. Did OK.) 🇺🇸

How it looks after Hexploding in plywood and water at over 2700 fps: 🙌



And while I am at it, the .395/330-grain brass S&H FN, a classic, at near 2800 fps impact, is still the best penetrator I have ever tested in the IronWaterBoardBuffalo!!!

Note how little the nose expanded, IIRC, 68% FN meplat with generous radius to the meplat edge:





Pistolero Val in cowboy hat.
Doc M on the right?
Who is the cameraman on the left?

RIP Val Robb, in "The Happy Hunting Ground." 🙏

8gauge

08 September 2010, 09:32

Just did some tests with my penetration box wet newspaper, @ 10 yards. 416 rugar #1 400gr Hornady DGX went in 16 3/4" 8 ga Boswell double .845 bore 875gn round ball made from Midway USA hardball, muzzle v 1650, 1 in 100 twist 24" barrels went in 16 1/4. Then shot my 1455gn round nose conical @ 1350 went in 26 1/2 inches. these are just our first test to see how the box works. More to come! thanks Michael458

capoward

08 September 2010, 09:50

Nice results RIP. I've wondered, since I first saw the doe with the VeloHex bullet on the S&H website, how much internal damage was done on that doe...do you happen to recollect?

Sam did a very good job with the brass HP; it's a good weight for the .500 caliber on heavier bone structure critters and if not enough then Michael's 470gr SST HP would be the answer. The commercial version will give me something legal to use in the giant vulture zone on the West Coast plus anyplace else where the range may likely exceed 150yds.

Jim 🙏

"Life's hard; it's harder if you're stupid"
John Wayne

416Tanzan

08 September 2010, 12:02

The 'vulture' zone in Calif should allow over-40 calibre solids. If they allow 243,, which may only expand 50%, why not a 458 solid? And Flat nosed!

+ + + + +

"A well-rounded hunting battery might include:
500 AccRel Nyati, 416 Rigby or 416 Ruger, 375Ruger or 338WM, 308 or 270, 243, 223" --
Conserving creation, hunting the harvest.

michael458

08 September 2010, 17:51

EZ

Good, glad the test confirmed something for you that you have been pondering. Yes, in the 400s one is about as good as the next it would seem I was some disappointed in the 400 TSX, they should have given deeper, but lost stability. It seems to me the lower velocity, about 100-150 fps of the 416 B&M does seem to stabilize the expanding 400s a bit better?? Of course it could be a difference in barrels too???

I have some more to get posted this morning that will be to your liking too!

Michael

<http://www.b-mriflesandcartridges.com/default.htm>

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.

michael458

08 September 2010, 18:07

RIP

Thanks. Yes You da man that come up with the Witness cards, and sometimes I get a little lazy with them, depending, but I have to say they are incredible when tracking the solids thru the deep stuff! They tell the story! For trauma transfer, the #1 at 4 inches and #2 at 10 tells the story of permanent wound channels--In this test medium, and gives a great comparison between bullets for that.

Finally digging out shrapnel from Non Cons, after 2 yrs! It's about time! The Non Cons, brass or copper, are truly incredible, with trauma transfer, penetration, accuracy, there is NO Downside to these bullets, none! Velocity rules, and performance only gets better with velocity, but velocity is not 100% required for them to work. Almost anything 2000 fps and up hammers. Even in the 50 Super Short that 350 Brass HP is a hammer at 2150 fps. These 435s I tested yesterday were at 2300 and 2500, and both went well into buffalo territory, better than the 400 gr 416s! Penetration is great, and deeper than any of the conventional premiums. That's the key, penetration!

In the old photo from 1999 that is me far right, Val in the middle, and my hunting buddy Lou to the left looking stupid with a camera and camo! HEH. Val was a character I tell you, man the stories I can recall with him.

8gauge

Welcome back, been awhile it seems. Great on the test work, could use more details and maybe some photos??? Looking forward to more to come, opens up our horizons, I can only test so much, and I am sure that there are lot's of folks interested in your work too with the calibers you are working with.....No thanks needed, anything I can do let me know!

<http://www.b-mriflesandcartridges.com/default.htm>

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.

michael458

08 September 2010, 18:49

Hot off the press---370 gr North Fork Bonded Core Slammer, buffalo knocker downer! I think of the 416s that I have tested, premium conventionals, I like this one the best. Penetration is there, no problems, transfer of trauma is large to say the least. No issues at all with stability as we saw in the 400s. Maybe a load out for buff like this, 1 370 Bonded, 1 370 Cup Point, #3 a 370 FN Solid! Triple hit! Let's see a double do

that! 





M

<http://www.b-mriflesandcartridges.com/default.htm>

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.

465H&H

08 September 2010, 20:45

quote:

Originally posted by RIP:
Doc M,
Just FANTASTIC WORK!!!
Of course the witness cards are great: I think I goaded you into that bit of scientific documentation for posterity.
They are especially enlightening when they show where the brass nose fragments come off in a starburst inside the medium.
You are just presenting so much stuff, I have a hard time studying it all and commenting in a 24-hour day.

The .500/435gr brass NONCON "CapoWads" will be super big game bullets for any job needing a soft point. 🤔

And now, for the record, I have finally recovered a NONCON from a game animal:



Just now, tonight, after a hard day at the office, I cooked some deer tenderloin on a George Foreman Grill. Bit into it and voila: Brass deathstar ray!!!

Just short of 2 years for the recovery, and down to the last bites of Bambi's mother.

Of course it is the S&H .395/310-grain Brass VeloHexploder.

1600 fps, 2100 fps and 2600 fps explosions in water buckets are pictured here.

Note that the faster it goes, the more uniform the primary missile remnant, and the better the wounding from both the six secondary and one primary missiles.



This bullet also establishes the new standard for big game rifle accuracy, as center-to-center 3-shot group at 100 yards should be no bigger than caliber of bullet:



(The scope is in Talley QD lever rings, was not adjusted since 2008 deer season, except it was removed from rifle to check peep sight, then replaced for this test fire, scope check. Did OK.) 🍷

How it looks after Hexploding in plywood and water at over 2700 fps: 👍



And while I am at it, the .395/330-grain brass S&H FN, a classic, at near 2800 fps impact, is still the best penetrator I have ever tested in the IronWaterBoardBuffalo!!!

Note how little the nose expanded, IIRC, 68% FN meplat with generous radius to the meplat edge:



Looks like you just reinvented the Nosler Partition. 🌞

465H&H

michael458

08 September 2010, 21:21

465HH

Well, maybe at a simple first glance, but not even close in reality. A Nosler Partition may be able to impart the same trauma up front, but it will never ever give the deep penetration afterwards, or even be close or in the ballpark as a brass Non Con. These things are phenomenal and I have shot the hell out of those Australian buffalo with copper versions that do near the same thing, and talk about slamming buffalo to the dirt, they do, and most will exit leaving great big nasty holes to let air in and blood out. Wicked, far beyond anything a NP can even dream of.

If you just look on page 92 now, you will see that a 400 gr 416 Nosler Partition at velocity will penetrate to 21-23 inches. I have a 330 gr brass Non Con 416 that gives the same amount of penetration on a regular basis, at 330 grs. You see the 435 gr .500 caliber bullet from 23-25 inches of penetration, and a 458 425 gr brass non con to 27 inches. The 500 gr Nosler P that you sent to test in the 458 Lott to I think 2200 or better did 19 inches. Penetration is incredible with these bullets. You know me, penetration is everything! I always like two holes in my meat!!!!

M

<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.

michael458

08 September 2010, 23:02

EZ and Tanzan

Since both of you have interests in 416 I will address the two of you! I almost expected this with the 350 Barnes TSX. As we know from prior

work, more velocity give some less depth in penetration with the Barnes TSX bullets. That's exactly what happened here at close range, 22 yds impact. So remember that, as ranges get further out, then of course velocity bleeds off and performance gets better. We have been using this bullet a lot in the 416 B&M at lower velocity of 2400-2450 fps, and getting great performance at this velocity. My boys have taken oryx, kudu, pigs and other things, others have used it on zebra, eland, kudu, and much more, all with incredible success, giving at least 3 ft or so of penetration in animal tissue.



If that velocity bleeds off a bit, penetration will increase as it does with the 416 B&M.

**458 B&M
350 Barnes X
Muzzle Velocity 2448 fps
21 yd Impact Velocity 2402 fps
18 inches total penetration**



Recovered from Eland-Kudu-Giraffe

Reported 32-36 inches of penetration

**416 B&M
350 Barnes X
73/AA 2520
Muzzle Velocity 2417 fps
21 yd Impact Velocity 2387 fps
18 inches Penetration
Retained Weight 350 grs**



It's been one of my favorites for the 416 B&M and I would not hesitate using it on old buff.

M

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.

eezridr

08 September 2010, 23:20

Michael,

Thank you for taking the time and effort on the 416 Soft point testing.

It was very valuable to me. It stands to reason that all but one bullet tested did a pretty good job from a penetration perspective and would be a good choice for Dangerous game (except Elephant).

That Hornady interbond may be a great cat load!

Thanks again for testing at the requested velocities as that is the most common in standard 416 (Rem, Rigby, Ruger) offerings.

All these bullets shoot very accurately in my 416 but none within 2" of each other at point of impact at 100 yards. They pattern at different locations around the bull. So happens right now the 370 NF's are 1.5" @ 12 o'clock 😊 I may stick with one that mimics a solid.

EZ

465H&H

08 September 2010, 23:59

Michael,

I was just jerking your chain. SMILE!

465H&H

michael458

09 September 2010, 00:21

quote:

Originally posted by 465H&H:
Michael,

I was just jerking your chain. SMILE!

465H&H

You best not mess with me, I may show up on your door step to clean out your garage Sunday? I have not been taking my medicine this week you know!

LOL

M

<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.

michael458

09 September 2010, 02:03

EZ

Hey no thanks needed, I learn too! Anyway, it's easier to test soft expanding than solids, and I needed a break from solids!

I don't even think that Hornady makes an Interbond anymore?? DGX now? Not sure, but honestly neither is as good as the old standby Hornady InterLock! Midway had a sale on them a year or so ago, and I bought up some to shoot in my 416 B&Ms at 2150 fps or so, very nice load, easy, nice girly load to shoot.

416 B&M 400 Hornady Interlock

Impact Velocity 2144 fps

Wet Print Mix 19 Inches Penetration



Another bullet that I am very fond of is the 400 gr Woodleigh Soft. It's a little different than some of its larger cousins, or at least the batch I have is. It does not flatten like a pancake at velocity.



In 2005 I took a 416 Rem--(Of course it was a Winchester M70) to Tanzania as my light rifle. I had some buffalo loads, but never used them, mostly used it for plains game, things like that. Number one load for that rifle was a 340 Woodleigh, and WOW did it hammer stuff. I was so impressed with this bullet that I actually figured if the only bullet I could shoot in my 416 B&M was the 340 Woodleigh, then I could get by with that very well! I did figure that I was running too much velocity, and I got better performance at 2400-2450 fps than above 2500 fps, so the 340 Woodleigh in the 416 B&M is perfect. It would not be my first choice on buffalo, but it would be right up there for lion and bear!

Lot's of photos of this bullet!

**416 Remington
340 Woodleigh SP
Muzzle Velocity 2540 fps**

**Wet News Print
50 Yd Impact
Retained Weight 339, 329 & 337 grs**



**416 Remington
340 Woodleigh
Muzzle Velocity 2550 fps
Sable @60 yds**



416 Remington

340 Woodleigh

Muzzle Velocity 2550 fps

Zebra @ 200 yds

photobucket



416 Remington

340 Woodleigh

Muzzle Velocity 2550 fps

Roan @80 yds

photobucket



**416 Remington
340 Woodleigh
Muzzle Velocity 2550 fps
Zebra @ 50 yds**



photobucket



**458 Lott
400 Woodleigh
Muzzle Velocity 2450 fps
Kudu @ 130 yds**



photobucket





M

<http://www.b-riflesandcartridges.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.

michael458

09 September 2010, 02:14

I got a note from my buddy Tom this afternoon. He likes accuracy of course, and I am a penetration nut. He has discovered the very best of both worlds it seems with this he sent me with his Win M70 458 Lott and 500 gr North Fork FPS!

6mmBR.com

Date: _____

Rifle: _____

Caliber: _____

Bullet: _____

Powder: _____

Load: _____

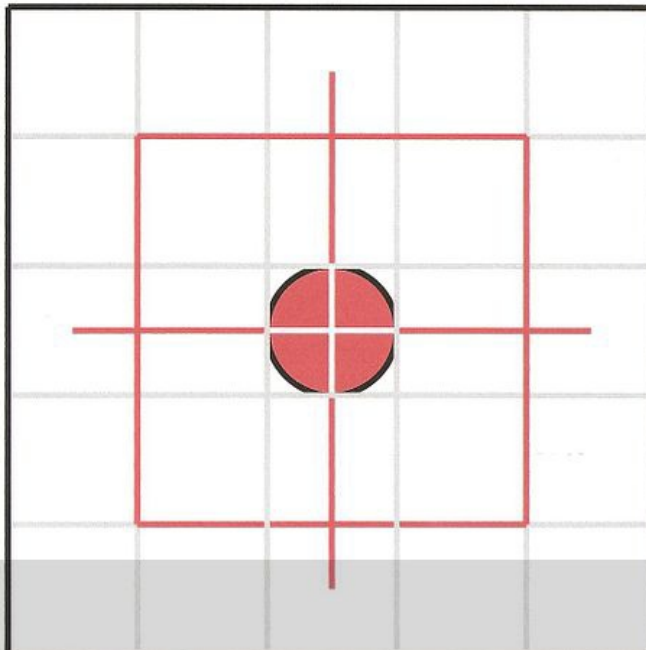
Primer: _____

Seat Depth: _____

Velocity: _____

Group Size: _____

Conditions: _____



6mmBR.com

Date: 08SEPI0

Rifle: MOD 70

Caliber: 458LOTT

Bullet: NF 500GR SOLID

Powder: H-335

Load: 81GRAINS

Primer: FED 215M

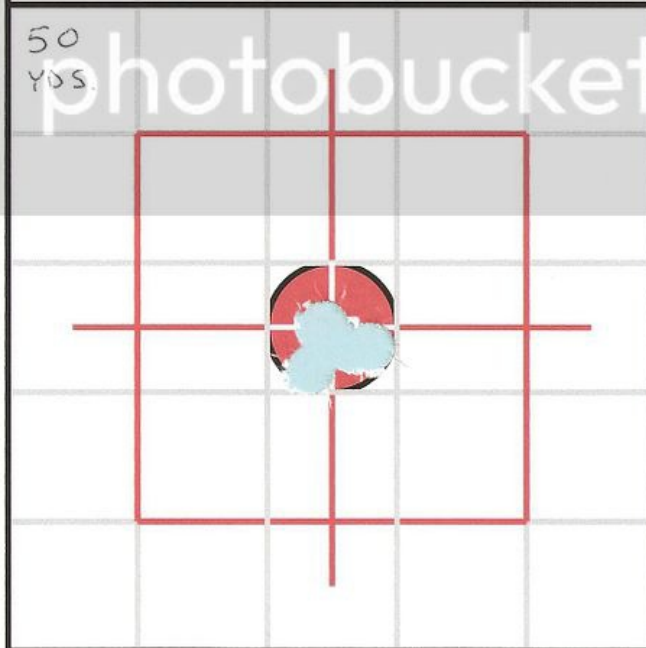
Seat Depth: 0AL 3.6

Velocity: CHRONO BROKE

Group Size: .407

Conditions: _____

85°, FIRST GROUP w/ BIG GAS H-335



I don't know what else one would ask for?

Damn, I taught him right didn't I? Look at this, Winchester M70--458 caliber--Fed 215s- and North Fork Bullets! I don't know where to go from here, except to .500 caliber?

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.

srose **09 September 2010, 02:54**

Michael,

I just ordered some 416 Hornaday interlocks from Midway and they were \$34.?? for 50.

Sam

sam

\$34 for 50? I can't remember what I did, that's a year ago or so, and you know I stock pile bullets? Still, seems reasonable to me, it's a good knock around bullet. I would much rather have it than a DGX or Interbond.

Now, lets see, back to 416 and lets look at 350 Swift A frames! I like this bullet too. I used one a few years ago to take the first animal taken with a 416 B&M, a cow buffalo. Cow buffalo are great to shoot, just as tough as bulls I figure, and way less than half the price. I get just as much out of shooting cows as bulls, except the cost of! I hope to shoot a hell of a lot of them next year, of course along with some good bulls too! Lot's of test work to do you know!



Excellent penetration for a 350 416, and at velocity too! Pretty close to the same in 416 B&M also.



And of course this is the one I dug out of the buffalo. I want someone to tell me how useless this test work is, as it does not compare to real world crap!



Michael

<http://www.b-mriflesandcartridges.com/default.htm>

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.