# THE ACCURATERELOADING.COM BIG BORE FORUMS



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Go 🧭 New 👩 Find 🔍 Notify 🔉 Tools 🚓 Reply 🔖 🔖 Terminal Bullet Performance **★★★★☆** Cross L One of Us posted 02 May 2012 04:41 Well, now I can play with some things----my very first Chronograph just arrived. no more guessingand I will be able to really make the non-cons work. \***Q**\* Posts: 6725 | Location: central Texas | Registered: 05 August 2010 ď boom stick One of Us posted 02 May 2012 05:06 Hide Pos Will you be using tips for higher velocity impacts? Curious to see your lion tamer bullet report. 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 ď Cross L One of Us posted 02 May 2012 06:39 Thats the beauty of having a chrono--I am looking at impact zones between 25 and 100 yards so will play with loads. the ability to load down into magazine and not have to worry about extra pieces VS the added velocity w/ tips-wonder what the difference will be at 100/ I am a BIG believer in both Murphy and the KISS Principle. Esp when in tight brush and quarry is running-I have fumbled a reload grins--shit happens-Posts: 6725 | Location: central Texas | Registered: 05 August 2010 €" boom stick One of Us posted 02 May 2012 06:47 Hide Pos I think CCMDoc used the 9,3 non cons or was it the 375 in a 375 flanged on leopard.

Not sure if the soon to be 416 Raptor will be ready for your hunt. I'm sure under 100 yards you will have a dead kitty with enough velocity at that range. I like the idea of the tips for over 100 yards. 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 <del>-2</del>9 Cross L One of Us posted 02 May 2012 07:00 Yeah I am thinking that 100 is gonna be around the break-point on tip-vs-no tip be fun to play with any way. Posts: 6725 | Location: central Texas | Registered: 05 August 2010 ď 416Tanzan posted 02 May 2012 09:47 Hide Pos When you get your Chronograph set up, you can plug the values into jbmballistics.com nttp://www.jbmballistics.com/c...bmtraj\_drift-5.1.cgi
There is even a field for the number of feet the the chronograph is in front of the muzzle.
It will show you exactly the remaining velocity, drop, wind drift, etc. at any interval you want out to whatever distance you want up to 3000 yards. (yes, three zeros). 100 yards is probably the realistic cut-off point where the bullet is losing so much velocity and energy that it needs a tipped-BC for anymore distance. It is not efficient to increase recoil, calibre, and muzzle energy unnecessarily, when a plastic tip simply preserves what one already has. "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. Posts: **4253** | Registered: **10 June 2009** €°





posted 06 May 2012 18:28

### auote:

Originally posted by mete:

low does one measure rotational speed ? Just try different twist rates ?

Little mention has been made of the 223 on this thread .What are some experiencs with it and what are appropriate types of game for it ?

I don't think I stated that rotation business correctly--What is being tested is the bullet at actual long range at reduced velocity. Starting out at full velocity-testing at 600-700-800 yards and getting the velocity at that range, at full rotational speed to see if there is a difference in actual long range performance and merely downloading the bullet to lower velocity to get LVSP.

Being in the "Big Bore" forum, we have actually done quite a bit on the 223 BBW #13s and Raptors. I don't recall the pages it might be on, but the performance of these tiny bullets have been quite respectable. So much so, that by Tuesday of this week I expect my tiny bores to be returned with 1:8 twist barrels installed, and my girls using them with the Raptors to take some game. This past deer season here in SC I had a friend of mine using the 55 BBW #13 in a 223 WSSM for about a dozen deer. He was very impressed with the performance, total penetration was achieved on all, no bullets recovered, none went more than a few steps. Sam R shot a couple of deer with those same bullets and some with the 40 gr Raptor as well—all turning in incredible performance. These bullets do in fact extend the performance of the 223 calibers beyond what I would have used them for in the past. To what extent, I can't say for sure, as I have never used a 223 on anything larger than a jack rabbit. But knowing what they did on the deer taken, how they test here in the lab, personally if I shot deer then I would use them, I would also say they would be very effective on up to impala size animals as well.

What is the best way to enhance the performance and capabilities of any cartridge, small bore or big bore? The Bullet my Man--The Bullet!

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

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



buffalo One of Us



posted 06 May 2012 18:34

Hide Pos

just came back from RSA, shot two hippos. One in the water with a 338 Win Mag and a TSX bullet in the brain. The other was at night using my new 500 Acc Rel. Used the 570 grs BBW #13 solids. One shot broadside in his right shoulder, smashed the shoulder and continued onward to go through vitals and smashing opposite shoulder and was lodged in the shoulder muscles. Ran 10 years and fell over stone dead.. Placed three more shots into him from the rear, two through the hipbone and one just in front of his right rear leg. One bullet lost, but found the one bullet shot through the heaviest part of the hip/pelvis bone. It was somewhat distorted -looked like the TRex test Michael have performed - and was found just next to the heart.. The solid shot just in front of his right rea leg was found lodging against the scull (was found when they skinned the head).. Not bad at all eh?? I loaded them to a muzzlevel of 2320 fps... I have one question for all of you - NONE of the bullets recovered showed any rifling marks... I have slugged the bore and it is .50944\* / .50019\* which is perfect. The CEB bullets are exactly .510" over the bands before beeing shot and they all measure around .501" after recovery... What happened??? Is a part of the bullet worn of on its way through the hippo or is a part of the bullet "say down the bore?? (1-10" twist)?? Maybe someone can post a pic of the bullets for me? I will be happy to send a few photos on email...

Posts: 873 | Location: Denmark | Registered: 04 January 2005

**63°** 



posted 06 May 2012 19:26

Welcome back, and congrats. Sounds like good clean fun to me

Now, as for your bullets having no engraving on them???? Strange, looking for photos now;

This is a 500 BBW #13 .500 that shot through the shoulders of buffalo, and straight into the ground the other side. Dug it out of the ground. Engraved, but somewhat wiped off due to bone and ground. Ground was rocky, small rocks and such, sandy. I think it wore off most or a lot of the engraving.

**500 MDM June 2011** 500 CEB BBW#13 Solid Muzzle Velocity 2380 fps Buffalo #2, Finish Shot through both shoulders, exited into the dirt the other side. Recovered damage from rocks in the ground.





This is the .510 570 BBW #13 Solid tested in the test medium, engraving good to go. Although the photos comes up a bit short on clarity--Sorry!



Some T'Rex tests going through the cinder blocks, engraving is wiped pretty good on these.





Close up of one of the recovered noncons showing engraving good. 535 BBBW #13 NonCon .510.



Now here this is expected in one of my 470 Capsticks where they stuck a .477 barrel on, and bullets are .474.





In looking through some photos I found this on some of the cast, engraving shallow, almost wiped after going through some critter tissue and the contract of the cast, engraving shallow, almost wiped after going through some critter tissue and the cast of the cast, engraving shallow, almost wiped after going through some critter tissue and the cast of the cast of



45/70 Marlin Guide 460 Cast Performance Muzzle Velocity 1710 fps Giraffe @ 50 yds Retained Weight 415 grs



This Barnes is pretty well wiped too after hitting a brick

458 Lott
500 Barnes FN Solid
Muzzle Velocity 2270 fps
48 Inches Penetration
43 Inches Wet News Print
4 Inch Solid Brick
Totally Penetrated 4" Brick
Found on the other side
of brick head on
100% straight line Penetration





OK--So we know your barrel is good to go.. We know the BBW #13 is .510 and it should be happy. So you don't have an oversize barrel, like I do on the 470 Capsticks. So that can't really be the issue.

After looking at some of the bullets going through the T'Rex, some going through bone and ground, other bullets also getting wiped in places, my opinion leans heavy towards the bullet passing through heavy bone, and having 4 smaller bands they are getting wiped as they pass through the bone material. All the T'Rex bullets are much smaller in diameter when recovered as well. Going through bone can concrete blocks is tough on bullet materials. Exactly why at times I do a hard test like the T'Rex test.

That is about the best opinion I can come up with right now.

Michael

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

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





posted 06 May 2012 19:54 I concur with your opinion..... Hide Pos

A 9mm may expand to a larger diameter, but a 45 ain't going to shrink

Men occasionally stumble over the truth, but most of them pick themselves up and hurry off as if nothing had happened.

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

€"

buffalo One of Us



posted 06 May 2012 20:06

some pics are soon on their way to you Michael.... thanks... 🤤 Posts: 873 | Location: Denmark | Registered: 04 January 2005

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416Tanzan



Buffalo,

posted 06 May 2012 20:08

I have one question that needs an answer before further Q&A.

What kind of engraving have you found on your bullets before this? Have you shot the bullets into water or wet paper, and if so, did you find rifling engraving?

The reason I'm asking is that I'm still trying to learn about the effects of 5/4" freebore followed by a tapered 2%(?) leade into the rifling. Here is a picture of two bullets that someone sent me from a hippo and and elephant skull that were shot from a 500 AccR.



both bullets are .510", fired from a 500AccR at probably just over 2000 fps muzzle.

If you look carefully, you can see the rifling on both bullets. The left was taken from a hippo, the right bullet, with petals shorn, from an elephant skull. (We're not supposed to ask why a TSX was fired at an elephant skull, 😌, but it dropped tembo. The TSX is not a bad bullet.)

One difference between Buffalo's bullet(s) and the bullets pictured in this post is velocity. The bullets in the picture here probably started out around 2100-2000 fps and dropped a little lower at impact. Note how the main body of the petals in the left bullet have not been forced back. The shearing of the petals in the right bullet can be attributed to unpredictable results when going through elephant skull.

For comparison I present a 416 TSX from about 2100 fps impact, and a 416 TSX at about 2600 fps impact. AT 2600+ the petals are smashed into a mushroom, at 2100 fps they still have some shape but are still further back than the .510 examples earlier in the this post.

Sorry.

This Image Is currently Unavailable

photobucket

2100 fps impact (.416" 350 TSX) Here is the same bullet from the top

Sorry

This Image Is currently Unavailable

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2100 fps impact (.416" 350 TSX) from the top.



Now I'm told that both Buffalo's barrel and the barrel that shot the two bullets above used the same reamer, which means 1 1/4" freebore.

The nagging question on the difference is that perhaps the slow bullets (2000 fps) engaged the rifling properly, but buffalo's faster bullets (2300 fps muzzle) sheared off the rifling marks when engaging at 1.25"? Is that even possible? I have no idea.

It would be easy to clarify if Buffalo has a pool where he can legally shoot a 500AccR without disturbing the peace or the neighbors.

"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.

Posts: **4253** | Registered: **10 June 2009** 

**€**?°

buffalo One of Us posted 06 May 2012 20:19

Hide Post

Tanz - I havent tried to shoot bullets in other mediums yet... didnt have time before I left.. was in a hurry you know... But will sure do it asap... I dont think bullet material can be stripped off down the barrel eh?? Well we will see. I suspected an oversize barrel when I found the bullets and had my gunsmith slug the barrel as soon as I got home. It was perfect... Hmmm -we will see... I am now loading photos from camera to my computer and will send some to Michael asap...

Posts: 873 | Location: Denmark | Registered: 04 January 2005

**♂**"

michael458 One of Us

posted 06 May 2012 21:41

Hide Po

I have the photos from Buffalo---and now I am not so sure what the issue is with the engraving. On the two bullets to the right they look great--just no engraving???? The messed up bullet on the left is like nothing I have ever seen? That cavity in the nose? And, it did not collapse on that cavity??? A lesser bullet would have been flattened. I saw a Barnes solid once that had been hit by a second barnes solid from an elephants head.

I don't know?







Big Damned hippos!



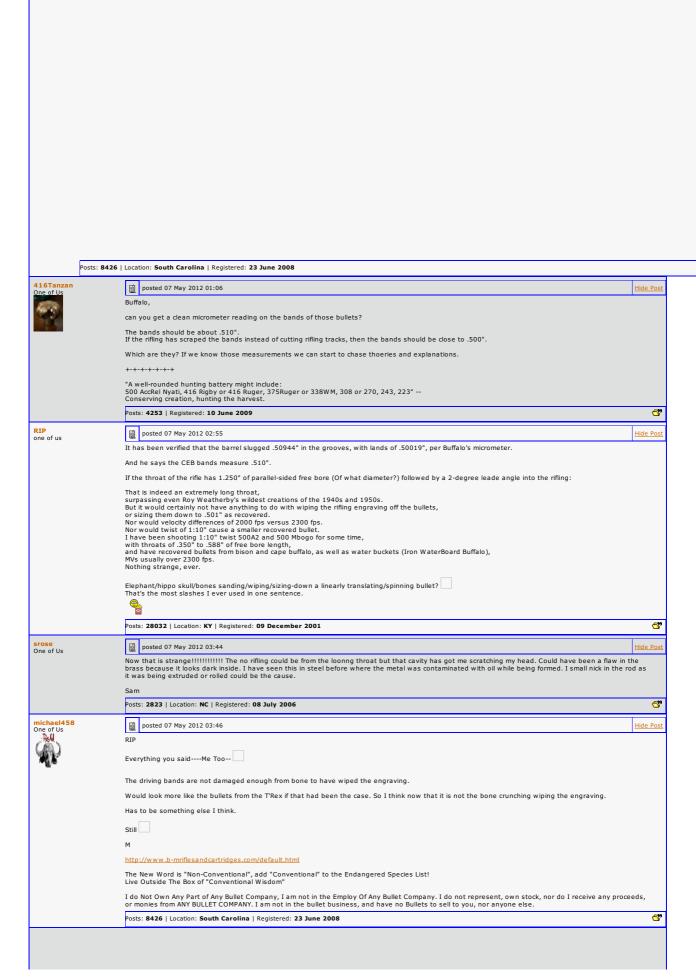


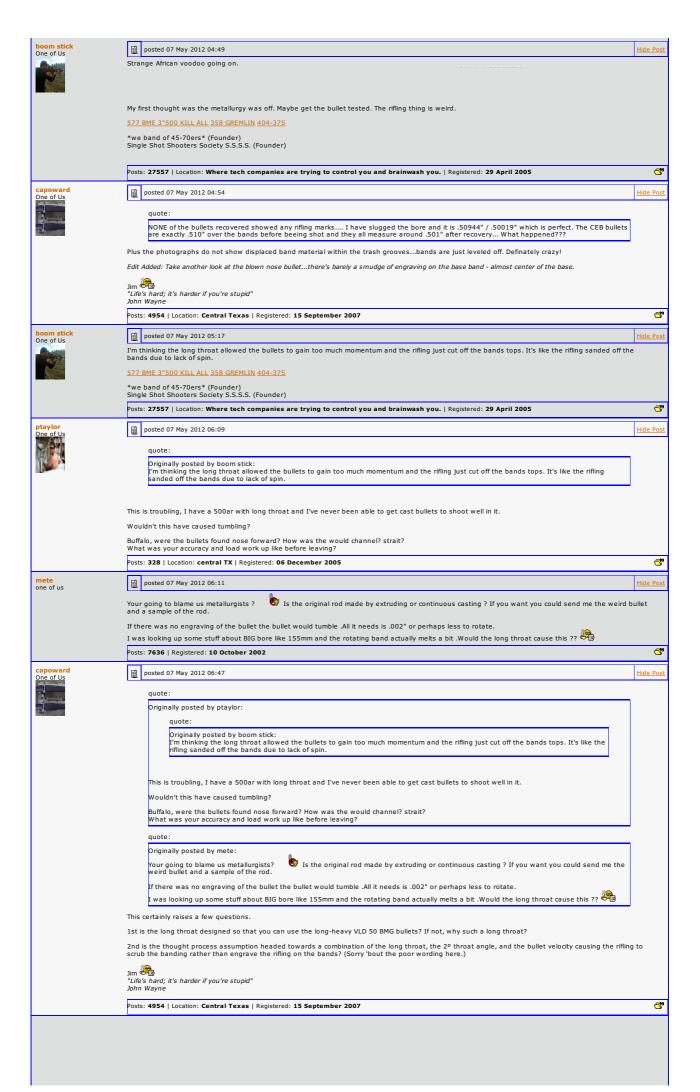
## Michael

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

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One of Us

posted 07 May 2012 06:58

Hide Post

Jeffeosso can chime in and give details but the 500 Accrel had the long throat designed to shoot the cheap milsurp bullets. There could be made a normal throat version made if desired. The minimal banding works well in normal throats. Other bullets have a lot more bearing surface so no issue with those. I think this is a throat issue and not a minimal band issue. The brass mushroom issue is the real puzzle. I'm thinking it was a matalurgy thing or the hippo had some surgery and had plates and pins in his bones.

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

€39

Hide Post

posted 07 May 2012 07:53



That brass mushroom cavity certainly leans towards a metallurgy issue during the brass rod manufacturing process.

Ok...long throat for milsurp bullets...

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

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

€°

RIP one of us

posted 07 May 2012 07:55

Hide Pos

Sam,
I too think you are right about a metallurgical defect causing that weird nose bulge and split on the one solid.
Crap do occasionally happen, even at the Cutting Edge of Technology. Saeed recycles copper lightning rods and gets the occasional split bullet when making his Walterhog.

Still no explanation for the undersized bullets with no engraving from the rifling.

A long throat could not possibly do that.

How much speed does a bullet pick up in 1 inch of initial travel from case mouth?

Once it gets fully engaged in rifling it has a long way to go with a lot of pressure behind it.

The bullet is not even spinning as it is going down the throat, must hit the rifling initiation fairly square-on and then start to spin.

The old standard .458WinMag throat was a sloppy wide funnel that was 1.1" long before rifling fully engaged.

If the bands on the bullets recovered above are only .501" diameter, then the inter-band (nonbearing surface) shaft has got to be about .490", by eye-ball alone. That would be a .500-caliber bullet, not a .510 caliber bullet. Did lightning strike twice in that batch of bullets?

I been thinking about getting a copy of the Walterhog made by CEB.
Might call it the "Walter Ho!" bullet as in "Tally Ho!"
Might get it made out of brass and send some to Terry Wee-wee-land as a sample to try.

Using them as rectal suppositories (most intelligent part of his body) might be the only way to convert that Luddite to proper thinking.

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







Hide Post

auote:

Originally posted by RIP:

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Speaking of the 'Walterhog', did you ever have Rob make you the US version?



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

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

€"

RIP one of us

posted 07 May 2012 09:18

"Speaking of the 'Walterhog', did you ever have Rob make you the US version?'

Jim, No. Never a plan. That was something else that never happened, and has since been forgotten.

Bridger Bullets once made a copy of the Walterhog,

and the first three I ever shot of those in a .375 W by WITH CALIBER LENGTH, NARROW DIAMETER FREE BORE sis still the smallest three-shot, 100-yard group I have ever fired.



There is definitely something very "smart" about that bullet design. I can't help but think that it might be good for another kind of "smarting."

Letter to Terry Wee-wee-land:

Dear Terry,

Try this Walter Ho. It might make you smarter. You might want to coat it with something besides moly, for comfort, before "seating" it, and do wear an exam glove when handloading.

Sincerely,



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

€"

capoward One of Us

posted 07 May 2012 11:03 Hide Post

auote:

Originally posted by RIP: "Speaking of the 'Walterhog', did you ever have Rob make you the US version?"

No. Never a plan. That was something else that never happened, and has since been forgotten.

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and the first three I ever shot of those in a .375 W by WITH CALIBER LENGTH, NARROW DIAMETER FREE BORE Still the smallest three-shot, 100-yard group I have ever fired.



There is definitely something very "smart" about that bullet design

That is a very nice group!

Jim 🕮

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

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

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posted 07 May 2012 11:10

So the following is not a typo but a datum?

The CEB bullets are exactly .510" over the bands before being shot and they all measure around .501" after recovery... What happened???

and then

A long throat could not possibly do that. How much speed does a bullet pick up in 1 inch of initial travel from case mouth?

ever heard of a derringer? (but surely a much faster power.)

Once it gets fully engaged in rifling it has a long way to go with a lot of pressure behind it. The bullet is not even spinning as it is going down the throat, must hit the rifling initiation fairly square-on and then start to spin.

The old standard .458WinMag throat was a sloppy wide funnel that was 1.1" long before rifling fully engaged. Never a problem.

So the scraping theory of the riflings is said to be impossible, and yet we need to explain what is going on. And the 458W might have operated below shear threshold, if such a concept is applicable for this situation. Back in the day people used to experiment with two and even three calibre-length freebore.

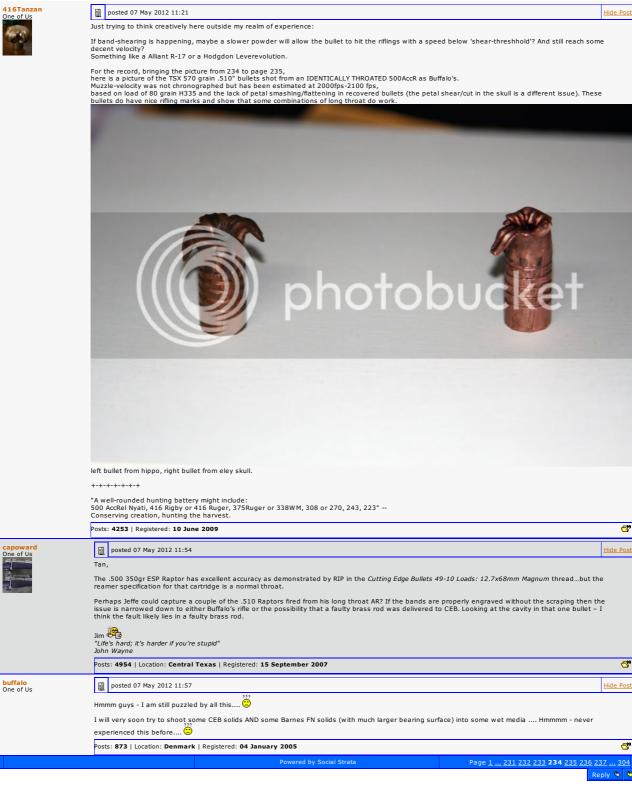
The comparison of the brass CEB with the copper TSX bullets, in a duplicate rifle with the same throat suggests that either the all-copper bullet is able to take the cut of the lands with some initial throat momentum, OR, the lower speed of the all-copper allows it handle the riflings. It would be funny if we need to use slower velocities in order not to skid through the very long throat. Well, at least there is a 647 grain TSX in .510" with a BC of .572. I could learn to hunt at 2100 fps muzzle velocity or less.

It does raise a big question about a 350 grain brass bullet at 2900 fps muzzle velocity. Will it shear its bands? And I can't believe that something with a long plastic tip would be stable if it shears its bands.

The summer tests will be interesting.

"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.

Posts: **4253** | Registered: **10 June 2009** 



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