

This topic can be found at:

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

srose

14 November 2011, 03:31

#### Terminal Bullet Performance

Primers made in the 100's of thousands you're going to have a few screw ups slip through I'm sure. Quality Control is only as good as the person doing it. That said yes a click in the heat of battle ain't good but better than a KER-THUNK! That's what the PH is for to back you up. I know that doesn't help if you are the one getting hit.

Dave Bush

14 November 2011, 05:43

Would anyone happen to have any load data for the 45-70 or 450 Marlin using the 400 grain BBW#13 solid? If so, I would greatly appreciate it if you could pass it on.

Dave  
DRSS  
Chapuis 9.3X74  
Chapuis "Jungle" .375 FL  
Krieghoff 500/.416 NE  
Krieghoff 500 NE

"Git as close as y can laddie an then git ten yards closer"

"If the biggest, baddest animals on the planet are on the menu, and you'd rather pay a taxidermist than a mortician, consider the 500 NE as the last word in life insurance." Hornady Handbook of Cartridge Reloading (8th Edition).

jeffeosso

14 November 2011, 06:08

Sam,  
people aren't usually involved in batch production for the real QC .. computers and sensors... but they fail, too

#dumptrump

**opinions vary** band of bubbas and STC hunting Club

Information on **Ammoguide** about  
the [416AR](#), [458AR](#), [470AR](#), [500AR](#)  
What is an AR round? Case Drawings [416-458-470AR](#) and [500AR](#).  
[476AR](#)  
<http://www.weaponsmith.com>

michael458

14 November 2011, 14:21

quote:

Originally posted by Dave Bush:  
Would anyone happen to have any load data for the 45-70 or 450 Marlin using the 400 grain BBW#13 solid? If so, I would greatly appreciate it if you could pass it on.

Dave, I use RL 7 in 45/70s, have for years. Back in April I did a workup of all the BBW#13s designed for the levers in one of my guide guns, 45/70. I don't have a 450 Marlin.

295 BBW#13 NonCon---52/RL 7 2011 fps, 54/RL 7 2099 fps, 55/RL 7 2137 fps

325 BBW#13 Solid---52/RL 7 1999 fps, 54/RL 7 2062 fps, 55/RL 7 2103 fps

370 BBW#13 NonCon---48/RL 7 1907 fps, 49/RL 7 1941 fps, 50/RL 7 1993 fps

400 BBW#13 Solid---48/RL 7 1872 fps, 49/RL 7 1932 fps MAX---I did try 50/RL 7, things got sticky, do not go past 49/RL 7.

If you use this, start a gr or so less than my data, work up. I have found out that ALL MARLINS, are not created equal. Some will have less tolerance.

Disclaimer--USE AT YOUR OWN RISK--While perfectly safe in mine, might not be safe in yours! This goes for all of you!

Start low, work up.

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"

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Dave Bush

14 November 2011, 18:50

Thanks Michael. I really want to give that 400 grain BBW#13 a try.

Dave  
DRSS  
Chapuis 9.3X74  
Chapuis "Jungle" .375 FL  
Krieghoff 500/.416 NE  
Krieghoff 500 NE

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michael458

15 November 2011, 04:55

quote:

Originally posted by Dave Bush:  
Thanks Michael. I really want to give that 400 grain BBW#13 a try.

Dave

Did I send you some?

M

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**Dave Bush**

**15 November 2011, 06:19**

No but I can pick some up from CEB. Don't worry, I'll call them this week.

Dave  
DRSS  
Chapuis 9.3X74  
Chapuis "Jungle" .375 FL  
Krieghoff 500/.416 NE  
Krieghoff 500 NE

"Git as close as y can laddie an then git ten yards closer"

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**srose**

**16 November 2011, 16:45**

Just heard from some of my friends in Zim who were hunting buffalo and other stuff and using #13s and the Raptors. They had great luck with them and I am trying to post the email. Sounds like the Raptor out of a 300 Jarrett did a wonderful job.

Sam

**michael458**

**16 November 2011, 16:54**

Here is the email from Sam's PH in Africa.

quote:

Dear Sam:

I'm here in our camp in Rifa along the banks of the Zambezi River, reflecting on my hunts of the past season. I appreciate the cartridges you sent over loaded with the #13 solids and the Non-Con bullets. Their performance was truly remarkable.

The calibers that were used on my hunts included the .577 Nitro Express, .416 Remington Mag, and the .300 Jarrett.

I personally used my .577 to take down a charging hippo, a fleeing wounded Cape buffalo, and a backup shot on a trophy bull elephant. The bullets devastating and immediate shock and stopping power on the animals was as dramatic as I've witnessed in my 17 year professional hunting career. In all three cases, the animals hit the ground within seconds. The charging hippo plowed into the ground at my feet, the elephant dropped where it stood, and the fleeing Cape buffalo received a "Texas heart shot" and went down within 10-15 yards. I recovered the bullet from the buffalo under the hide of the chest. The bullet had blown through 5 feet of muscle, gut, and bone.

Most recently, my friend Doug Stein and I hunted Cape buffalo and various species of plains game. Doug was using the Non-Con bullet in his model 70 Winchester in .416 Remington mag. We ambushed a large mature buffalo after a brief stalk and Doug placed a shot behind the shoulder from approximately 35 yards. The stunning and swift shock on the buffalo's system had him stumbling within a split second. The wounded buff tried to run with the other buffalo, however, he pulled up within 30 yards allowing Doug the time to place a 2nd shot behind the opposite shoulder. The 2nd shot literally swept the buffalo off his feet. I can tell you the geysers of blood rising from the wound was like none I have seen. Without being too graphic and over descriptive, I tell you this to properly describe the extraordinary amount of instantaneous hemorrhaging of the wound channel. Upon inspection of the buff's wounds, I was amazed at the severity of the bullet wound including the multiple secondary wound channels from the bullet petals. No long walk required to follow up this buff!

Additionally, I was able to witness the .30 caliber Non-Con bullets used on a variety of other plains game species from Doug's trusty .300 Jarrett. Without exception, each animal dropped in its tracks. The .30 caliber bullets included the plastic tip to help stabilize the bullets on longer shots over 200+ yards. The bullets performed with remarkable and consistent accuracy on each shot.

I plan to continue using these bullets in my rifle on all my future hunts. Thanks again for introducing me to these wonderful bullets.

Regards,

Cliff Walker  
Professional Hunter  
Walker/Watson African Safaris  
wwalkerwatson@aol.com  
Bulawayo, Zimbabwe

Cliff Walker  
Walker & Watson Safaris  
Cell: + 263 712 215 240  
Cell: + 263 772 116 254  
Office: Kerry + 263 9 240908  
Office email: wwalkerwatson@aol.com

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

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**Phatman**

**16 November 2011, 18:58**

Now that is a satisfied customer. 😊

Cheers, John

Give me COFFEE and nobody gets hurt

**I Bin Therbefor**

**16 November 2011, 19:32**

BRAVO, BRAVO, BRAVO

ONCORE, ONCORE, ONCORE



Get more CEB #13s, solids, noncons and Raptors into the hands of the PHs!!!!



**boom stick**

**16 November 2011, 22:22**

Awesome review and I would say endorsement.

[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)

**michael458**

**18 November 2011, 23:06**

Of Particular interest to any of you guys from out of the country who would like to get bullets exported.

Reloading International

And, they are hooked up with Cutting Edge Bullets and can be ordered there online as well.

Complete instructions and information found here;

<http://new.reloadinginternational.com/customers>

<http://www.b-riflesandcartridges.com/default.html>

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**michael458**

**20 November 2011, 17:31**

If you took a look at the B&M thread, you know I am very pleased with the new load data for the 475 B&M. I could not help myself yesterday, I had to know how the terminals were going to turn out on the 420 BBW#13 NonCon, 425 North Fork CPS, and 425 North Fork Premium Soft! I had been waiting to get my velocity up to "Fighting Speed" for the 475 B&M before messing with terminals, yesterday was the day.

420 BBW#13 NonCon. As you see the penetration is a little less than the various 458s and 416s from the B&Ms, but one would expect that as we have not increased weight (SD having an effect), just diameter over the 420 BBW#13 in .458 caliber, used very successfully on several buffalo, and croc in Zim this year in the 458 B&M. While depth of penetration is some less, it's still well into "Buffalo Territory", and trauma was not any less than we have seen in the past. Massive! I intend to slap a few buffalo around with some of these next year!

I had already tested the 450 BBW#13 Solid at 2150 fps with extremely good results, so I elected not to test the solids yesterday, including the 425 North Fork FPS. Will get to them later, I already know how they are going to do anyway.



By the way, the 420 BBW#13 NonCon is a perfect match to the 450 Solid, all in the same hole at 50 yds.

Michael

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**michael458**

**20 November 2011, 17:33**

A little something you have not seen in awhile! Some absolutely perfect NORTH FORKS!

Here we see the 425 North Fork CPS---Expanding Cup Point, I insisted my cup points Expand some and North Fork has got it right every single time! Both in the .500s and now the .474s.

An excellent buffalo bullet!

475 B&M  
11/19/2011  
Twist Rate 1:10  
425 North Fork CPS  
Expanding Cup Point  
Muzzle Velocity 2287 fps  
22 yd Impact Velocity 2210 fps  
Extensive Trauma Inflicted  
X1--19 Inches  
X3--20 Inches



Michael

<http://www.b-riflesandcartridges.com/default.html>

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**michael458**

**20 November 2011, 17:38**

And I am quite sure this will be a little unexpected from my corner, but you see, I still have a place for "Conventional Premium Bullets" both in my heart, and on my bullet shelves! And this is an excellent one that I am very happy with. Thanks North Fork! Excellent work!

475 B&M  
11/19/2011  
Twist Rate 1:10  
425 North Fork Soft  
Muzzle Velocity 2325 fps  
22 yd Impact Velocity 2270 fps  
Extensive Trauma Inflicted  
X2--15 Inches  
X2--16 Inches



X2--15 Inches  
X2--16 Inches



Having visions of "Double Tapping" bears, lions, and such, maybe a 425 North Fork Premium tap #1, followed by a 420 BBW#13 NonCon tap#2, then maybe a 425 North Fork CPS Tap#3, and followed by a 450 BBW#13 solid tap #4-----Wait a minute, I already went way past "Double Tap", oh well, what the hell, shoot'em till you can't shoot anymore, or just plain run out! HEH HEH HEH.....

Michael

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**Dave Bush**

**20 November 2011, 18:34**

Michael:

Those cup point solids are really something. Do you think that lead core soft points are on the way out?

Dave  
DRSS  
Chapuis 9.3X74  
Chapuis "Jungle" .375 FL  
Krieghoff 500/.416 NE  
Krieghoff 500 NE

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**RIP**

**20 November 2011, 19:01**

Originally posted by michael458:

"And I am quite sure this will be a little unexpected from my corner, but you see, I still have a place for "Conventional Premium Bullets" both in my heart, and on my bullet shelves! And this is an excellent one that I am very happy with. Thanks North Fork!"

Excellent work!  
Sub-500-grain bullets for 470s are all NonCons.  
Especially a .474/425 North Fork soft, since it is built like a grooved Trophy Bonded Bear Claw Original, once-upon-a-time nonconventional itself, with solid copper base/shank and bonded lead nose core.  
A grooved Bear Claw of fighting weight at warp speed:  
That's in a new class.  
NonCon is good. 🤔

Excellent.

**michael458**

**21 November 2011, 01:00**



quote:

Originally posted by Dave Bush:  
Michael:

Those cup point solids are really something. Do you think that lead core soft points are on the way out?

Dave

It will be a long time, but in our hunting world I think that these new BBW#13s from CEB, North Fork innovations like the "Expanding" CPS, will at some point become the bullet of choice over time. This is in our Big Bore world, where many of us use the rifles and bullets in the field. For the guys who enjoy the big bores for play, target shooting, and just enjoy having them, then they are not as concerned about performance as they are price, then the cheaper lead core bullets will remain for them. For performance on Dangerous Game, it might take a generation or so, but the lead core bullets have seen their day, and it is gone, in this arena they are on the "Extinction" list!

Michael

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**Phatman** 23 November 2011, 14:35

Hey,  
You Guys all have a wonderful Thanksgiving.  
May it be much more than you expected.

Cheers and make Merry,  
John

Give me COFFEE and nobody gets hurt

**michael458** 23 November 2011, 14:50

Happy Thanksgiving Guys!

Enjoy

Michael

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**Esskay** 23 November 2011, 15:15

Happy ThanksGiving Folks. Chugg chugg glugg glugg

Best wishes

Saeed Ansari

**capoward** 23 November 2011, 20:29

Happy Thanksgiving Everyone!

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

**Lefteris Vassiliadis** 24 November 2011, 01:06

Michael,  
When you tested the 825 BBW#13 NonCon & 900 BBW#13 Solid in the .600 OK at lower velocities, did you measure any chamber pressures?

Lefteris  
[www.europeancartridgeunlimited.com](http://www.europeancartridgeunlimited.com)

**srose** 25 November 2011, 04:12

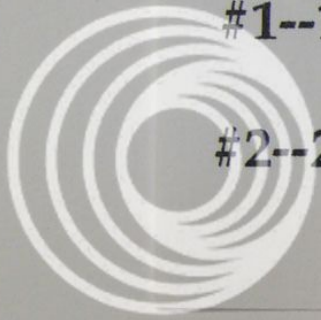
quote:

Originally posted by michael458:  
Now without further BS let's get the show on the road!

This post will show Round Nose, 50% meplat, 55% meplat, and 60% meplat. Within each test the bullets are nearly exact, but from one jump to the next there is a slight difference in weight, and a slight difference in velocity as we move forward. These differences are not significant, and do not effect the overall behavior. Sam did a wonderful job on getting these bullet ready for this test. Thank you Sam for making this possible.

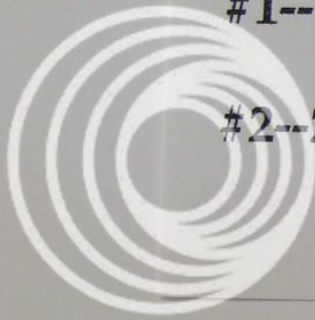
First the Round Nose to start things off.

**50 B&M  
1:12 Twist Rate  
415 gr Round Nose  
Muzzle Velocity 2221 fps  
22 yd Impact Velocity 2132 fps  
#1--13 Inches Straight-Veer Down  
out at 22"--4" off course  
#2--21 Inches Straight-Tumbled to  
28"--4" off course**



Next the 50% Meplat.

**50 B&M  
1:12 Twist Rate  
419 gr FN 50% Meplat  
Muzzle Velocity 2205 fps  
22 yd Impact Velocity 2096 fps  
#1--19 Inches Straight-Tumbled to  
24"--3" off course  
#2--22 Inches Straight--Veer left to  
29"--4" off course**





**50 B&M  
1:12 Twist Rate  
421 gr FN 55% Meplat  
Muzzle Velocity 2204 fps  
22 yd Impact Velocity 2116 fps  
#1--24 Inches Straight--Veer right  
to 28"--4" off course  
#2--26 Inches Straight--Veer up to  
29"--2" off course**



**50 B&M**  
**1:12 Twist Rate**  
**426 gr FN 60% Meplat**  
**Muzzle Velocity 2194 fps**  
**22 yd Impact Velocity 2113 fps**  
**#1--36 Inches Straight-Veer left to**  
**44 inches-2" off course**  
**#2--40 Inches Straight-veer right to**  
**48 inches 1" off course**



Now for my part I look at "Straight Line Penetration", that is about all I am concerned with. At what point does that bullet start to behave poorly by veering off course or tumbling? The rest is really a moot point to me. "Terminal Stability" is what we are after, or what I am chasing. I want stability so that I know I can count on that in the field, as much as allowed when other variables are introduced! As stated a 1000 times, if it works and is successful in the test work, then the better probability that it will be successful in the field.

As we work our way up the meplat ladder we see a trend starting to appear, added "Terminal Stability". Even a jump from RN to 50% made a difference, even if they overlap a bit in straight line penetration, we see the two bullets start to come closer together. The RN being unstable showing a wide difference in straight line penetration, the 50% meplat starting to show closer numbers with straight line penetration. At 55% we see this come even closer, and at 60% straight line penetration takes a huge jump in penetration depth. In addition one must look at the total amount of "Off Course Veering" from 50% to 60% meplat. At 50% and 55% we see from 2" to 4" off course at the end of penetration, most of those at 4" actually left the test medium to the sides or to the bottom. With 60% meplat size we see a significant jump in straight line penetration, and in addition at the end of that total penetration we see 1" and 2" off course! I find this significant. No doubt about a trend in my mind. But I will let you judge this for yourself.

Michael

Round nose verses flat nose!

srose

25 November 2011, 04:13

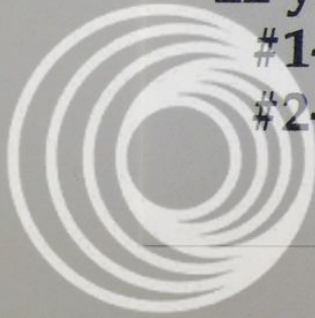
quote:

Originally posted by michael458:

The second part of the test with the 65%, 70%, 75% and 80% meplat for caliber showed a significant gain in "Terminal Stability".

65% Meplat

**50 B&M  
1:12 Twist Rate  
429 gr FN 65% Meplat  
Muzzle Velocity 2182 fps  
22 yd Impact Velocity 2099 fps  
#1--46 Inches Dead Straight  
#2--45 Inches Dead Straight**



photobucket





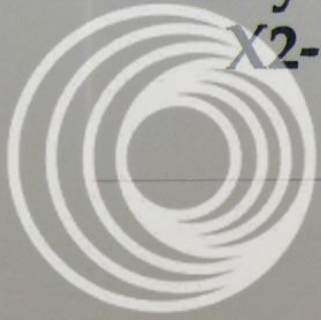
**50 B&M**  
**1:12 Twist Rate**  
**430 gr 70% Meplat**  
**Muzzle Velocity 2180 fps**  
**22 yd Impact Velocity 2090 fps**  
**#1--46 Inches Dead Straight**  
**#2--44" Dead Straight**



photobucket



**50 B&M  
1:12 Twist Rate  
435 gr 75% Meplat  
Muzzle Velocity 2179 fps  
22 yd Impact Velocity 2080 fps  
X2--40 Inches Dead Straight**



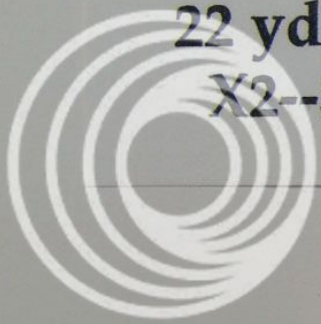
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80% Meplat

**50 B&M  
1:12 Twist Rate  
438 gr FN 80% Meplat  
Muzzle Velocity 2170 fps**

**22 yd Impact Velocity 2067 fps  
X2--36 Inches Dead Straight**



photobucket

Of little doubt we achieved "Terminal Stability" with the 65% meplat for caliber. Both were found dead straight, nose forward. Straight line penetration made another increase over the 60% meplat, however we note that total penetration was near identical on average. With the 60% just not being quite as stable as the 65% meplat.

At 70% meplat for caliber "Terminal Stability" and depth of penetration was basically equal with the 65% meplat. This was the only true anomaly I encountered in the test with the 1 70% that penetrated to 44 inches. All test medium has it's faults, my is not excluded. This one bullet found the binding of a magazine that I insert in the mix, one edge of the meplat was damaged somewhat, and the other edge had a clear outline of a staple across the meplat. It is my assertion that this caused the very slightly less penetration of the 1 70% meplat bullet. It did not effect straight line penetration at all, and the bullet was found nose forward and dead straight. Just lost a couple of inches over it's brother, and I believe that to be the culprit. Here again, a larger sample size would have sorted that out, yes I know, but the trend is evident regardless.

Here is one of the questions that I thought I knew the answer, but not 100% confident, now I am confident, even with such a small sample size. At 75% we see a definite reduction in total straight line penetration. Meaning, we found the meplat size where we start to limit total penetration! Terminal Stability is 100%, no veer, nothing but dead straight penetration and both bullets found nearly side by side, nose straight forward. This is the same behavior as we saw in Agent J's bullet. In no way is this a detriment, with one exception, this is the point at which my beloved Winchesters started to balk at feeding the large meplat, catching at the bottom of the feed ramp before jumping under the extractor.

Again at 80% meplat for caliber we see yet another reduction in total penetration, which even further confirms in my mind that we can in fact limit penetration if that should be desired by using a larger meplat size. Again, 100% terminal stability, dead straight line penetration, both found nose forward.

Something that also should be pointed out, I observed (I should have actually measured) as we increased meplat size we also increased the impact trauma to target with larger wound channels and destruction of test medium. I wished I had taken the time to get actual measurements, but that is hind sight now, you will just have to trust me on this one.

Well guys there it is. Agree, disagree, whatever you choose to do, that is it in a nut shell and reported exactly as I found it, no sugar coating. I think this basically confirms prior test work done on the subject, and I know for a fact that this could be repeated over and over, basic results on behavior would be the same.

Everything done with a barrel of 1:12 twist rate, which no doubt assisted the bullets of less than 65% meplat. A slower twist rate I am sure would have showed the less than 65% meplat far less stable than they are at 1:12.

Thanks to Sam for making the bullets, thanks to 465HH for his collaboration in the effort and his upcoming statistical conclusions, and all the efforts all of you put into this and the input you give. Not one of us has all the answers, but as a group we have discovered much and continue to do so! Thanks to all who push me a little bit from time to time to make the effort, otherwise I might get lazy! HEH.

Michael

And another!

srose

25 November 2011, 18:58

quote:

Originally posted by 465H&H:

quote:

Originally posted by michael458:

As shooters and hunters we make many choices as we move forward. What rifle? What Cartridge? What apparel do I need for the next hunt? What Powder to use for my loads? How much velocity do I need?

However, all combined it comes down to the "BULLET" we choose that can and "sometimes" does decide whether the entire affair is either a great success, with shared smiles, back slaps, and handshakes, and most important, that Ice Cold Celebration BEER after the grand event--or a miserable, worrisome, thought provoking, failure!

Come now, really, what would you choose?



If you are a double sorta chap, what would you choose?

Michael

Michael,

I expect that your question was rhetorical and you really didn't expect an answer. But being the contrary sort of guy that you respect and love, 😊 I thought I would take a shot at it.

Here are my choices and reasons behind them.

If I was choosing a bullet for buffalo I wouldn't select either. I prefer to use a strongly constructed soft for buff in all cases. If I was hunting a trophy bull elephant or a single hippo on land esp. a Botswana bull ele, I would chose the FN solid. I would be mindful that I might have to pass up a shot where a shoot through could hit another elephant.

If I was hunting tusksless cows, tusked cows or actually any elephants in a herd situation then I would chose the RN solid. Still more than enough straight line penetration for any reasonably angled shot and a much less chance of a shoot through.

465H&H

And people still don't get it.



quote:

Originally posted by michael458:  
Oh my, that was good, you have to admit!

Speaking of "OLD" things! Sam had a Original Kynoch Load, and we gave it a whirl in the 500 Nitro!



This caliber and load was known for its penetration. See what RNs do!!

quote:

Originally posted by michael458:  
Last but not least, Sam had made a little 350 gr .500 caliber #13, and I just had to see it work.





I don't know, this is a cute little bugger! But the 405 gr #13 is the real hammer for the 50 B&M Super Short.

It did very well for a 350 .500 caliber bullet!

Michael

This little short fat bullet out penetrated the mighty 500 NE with a Kynoch solid.

Dave Bush

25 November 2011, 20:40



[/QUOTE]

Hate to resurrect an old thread but it looks like this plain old Hornady cup and core bullet would work just dandy in the 9.3X74R.

Dave  
DRSS  
Chapuis 9.3X74  
Chapuis "Jungle" .375 FL  
Krieghoff 500/.416 NE  
Krieghoff 500 NE

"Git as close as y can laddie an then git ten yards closer"


"If the biggest, baddest animals on the planet are on the menu, and you'd rather pay a taxidermist than a mortician, consider the 500 NE as the last word in life insurance." Hornady Handbook of Cartridge Reloading (8th Edition).

**capoward**

**25 November 2011, 20:58**

Sam thank you for the side-by-sides of the Kynoch vis-a-vis the BBW#13s...especially that cute little .500 350gr bullet. 😊

Dave...  Nice little deer bullet.

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

**Dave Bush**

**25 November 2011, 21:54**

quote:

Originally posted by michael458:



Cappy:  
They seem to do pretty well at a higher velocity too. I don't think you need tough guy bullets in the 9,3X74. Muzzle velocity is pretty low.

Dave  
DRSS  
Chapuis 9.3X74  
Chapuis "Jungle" .375 FL  
Krieghoff 500/.416 NE  
Krieghoff 500 NE

"Git as close as y can laddie an then git ten yards closer"

"If the biggest, baddest animals on the planet are on the menu, and you'd rather pay a taxidermist than a mortician, consider the 500 NE as the last word in life insurance." Hornady Handbook of Cartridge Reloading (8th Edition).

**capoward**

**25 November 2011, 22:35**

Dave,  
Yes they do. I have 500+ .500 500gr FN jacketed Hornady .500 S&W bullets to use for practice in my .500 caliber rifle. I also would have no issues using them against any NA game outside the Condor zone in The "Land of Fruits and Nuts"; for this area I have 300 CEB HP Spitzers. But I also have 1000+ CEB BBW#13s in .500 caliber for use where Needed or desired.

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

**capoward**

**25 November 2011, 22:44**

Dave,

I'm using my iPad so having trouble getting it to do what I want...sorry for that.

While the 9,3x74 is a low velocity round, you should recheck Michael's results with the - I think it is a 250gr - CEB BBW#13 FN Solid and HP NonCon from the 9,3 B&M... Substantial penetration from both solid and NonCon...plus less barrel strain from the 4-Band bore riding bullet vis-a-vis the full groove diameter of the long shank on the Hornady bullet.

I like the 9,3mm rounds - but I definately would use either CEB BBW#13s or NF CPS or FPS bullets for toothy and larger DG animals.

Just my personal opinion.

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

**I Bin Therbefor**

**26 November 2011, 04:12**

From page 283 of Pierre van der Walt's African Dangerous Game Cartridges, "to my mind the day of the round nose solid has come and gone." He then goes on to say, "The new generation of large meplat solids such as the GS Custom and the North Fork have arrived. I don't use anything else any more."

I hope Pierre makes it to the DSC and has a chance to meet with CEB. I'm sure he'll expand his list one more. I don't know how to introduce him to the S & H line, but that too would be a nice addition.

On page 94 of the same book are some interesting photographs showing the stability of various bullet designs going through gelatine. The conical nose doing a "flip" and the round nose going unstable are clearly photographed. Apparently, the varying density of the target medium is a factor in the round nose's insatbility. So, if the round nose was lucky enough to pass through a constant density in the target, it should stay on path. That might explain why the round nose goes unstable sometimes and sometimes not. In addition, the channel left by the bullet is larger for the flat nose, except when the conical tumbles and goes who knows where.

All I've seen in the book confirms the work done here. Congradulations to one and all. 🤖🤖🤖

**Hog Killer**

**26 November 2011, 08:18**

What is CEB's booth number at DSC?

Keith

IGNORE YOUR RIGHTS AND THEY'LL GO AWAY!!!

-----  
We Band of Bubbas & STC Hunting Club, The Whomper Club



Sam

I'm a convert to the CEB bullets and the new design of the BBW #13's. I have three rifles in B&M calibres and have CEB projectiles in four different bore diameters. However, I pose the question to you; "How much penetration is enough?"

While hunting hippo in Zimbabwe earlier this year with my .50 B&M loaded with SSK manufactured projectiles (these were designed in conjunction with Michael and can be considered first generation solids and hollow points along the BBW #13 evolutionary tree) I had a situation that bears consideration.

After several days of searching for a decent bull out of the water, we came across a nice opportunity to take a bull close to the water's edge. This bull was standing perfectly broadside but there was a cow standing right behind him and slightly forward.

The guide and I briefly discussed the situation and I changed from the 515 gm solid I had loaded to the 470gm hollow point. First shot hit the right shoulder, went through the top of the heart and smashed through the ribs on the left side, lodging just under the skin. The animal lurched a short distance into the water and I put another round into it to stop it from dying in the deep water. Second shot dropped it in the shallows.







Had I used the solid that I had originally had loaded, I'm sure that I would have shot both hippos (which would have been two for the price of two!). The SSK hollow point showed ample (and in this case, ideal) penetration.

From Michael's own experience and testing, solids that pass a certain distance through his test media are likely to pass through almost double that distance through animal tissue. So if I see that a projectile penetrates 68" of test media, that translates to around 120" of animal. How many land mammals out there are 10 foot wide? Even a Texas heart shot on a bull elephant requires less distance than that to reach the vitals from the rump end.

From the testing that Michael did, we saw that the larger than 70% meplats started to drop off in penetration, but did so with increasing trauma and tissue damage.

We need to be objective about terminal performance as a whole and not just look at penetration depth. Straight line penetration along the bullet's entire path is vital, I agree, but what depth is best? To me, the next step in solid evolution is to determine a maximum desired penetration depth in the bullet box and to then increase meplat size of bullets that exceed this until the meplat size brings the bullet down to that penetration depth. This way, we have a solid that both penetrates to optimal level and also does as much damage as possible to that level.

Of course, this will be valid at a particular impact velocity. Different cartridges or different impact distances will vary this, and so too penetration.

The other option for higher velocity cartridges is to choose lighter solids in order to reduce penetration to desired levels while increasing velocity, trajectory and tissue damage.

The can of worms here is, what penetration depth should be considered ideal?

MeplatFS

**srose**

**27 November 2011, 04:40**

MeplatFS,

Glad you like the CEBs and the SSKs both are great. You made a good choice with the copper hollow point on the hippo. Now how much penetration is too much. I want my solids to go like the energizer bunny ON and ON! If in like your case you have two animals beside each other then you do what you did and switch to an expanding bullet. That's why I like doubles all I have to do is switch triggers. Some say you don't want too much penetration and like using those tumble solids. Now you can't count on them to tumble all the time and they might zip through two also. A solid is supposed to penetrate all the way in my opinion. I want it to go through three animals if they are lined up. In most cases hunting dangerous game you have time to wait for the right shot and you should be sure you make the right shot. This banging away at herds doesn't do it for me. Hey if you are worried about your solid shooting through your animal then use a soft nose.

Sam

**CCMDoc**

**27 November 2011, 05:19**

quote:

Originally posted by srose:  
MeplatFS,

Glad you like the CEBs and the SSKs both are great. You made a good choice with the copper hollow point on the hippo. Now how much penetration is too much. I want my solids to go like the energizer bunny ON and ON! If in like your case you have two animals beside each other then you do what you did and switch to an expanding bullet. That's why I like doubles all I have to do is switch triggers. Some say you don't want too much penetration and like using those tumble solids. Now you can't count on them to tumble all the time and they might zip through two also. A solid is supposed to penetrate all the way in my opinion. I want it to go through three animals if they are lined up. In most cases hunting dangerous game you have time to wait for the right shot and you should be sure you make the right shot. This banging away at herds doesn't do it for me. Hey if you are worried about your solid shooting through your animal then use a soft nose.

Sam

Sam,

I'm with you 100% on every point. Two weeks ago a CEB#13 solid fired at the head of an elephant as he turned away penetrated from right occiput to left temple. Side shot went right through the head.

Non-con on a leopard turned organs inside thorax into puree.

NRA Lifer; DSC Lifer; SCI member; DRSS; AR member since November 9 2003

**STILL waiting for my Taksdale double or a refund**

**Don't Save the best for last, the smile for later or the "Thanks" for tomorrow**

**Phatman**

27 November 2011, 06:27

I think the overlapping targets is tailor made for the Northfork Cup point solids.

But in this situation it might still have gone to far.

You handled the situation with perfection. 😊

Cheers, John

Give me COFFEE and nobody gets hurt