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Terminal Bullet Performance

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#### boom stick One of Us



posted 11 May 2010 08:52 Hide Post

Yep... balls of tungsten with a copper jacket can be driven faster and no yaw, bending, deforming, tumbling ect. Under 100 yards who cares about bad BC

#### auote:

Originally posted by Extremist458:

Warrior, I agree with you, we are just playing with balls...but it is interesting, and the gain of knowledge from this would be both fascinating and entertaining, not to mention anecdotal to the cause.

Thing is, the weight of the tungsten balls is more then most seem to think...it makes a .9" long .44" FN over 600 grains...it's 65%+ heavier then pure lead, and is more then double the weight of steel and brass, yet very hard and nearly perfectly round (not machined). Yes, the cost is high, but not ridiculous, around 2\$ before plating.

So let's say this TB would run around 550 grains, guessing, then the SD is about the same as those heavy FN's, but shorter and more stable (really, how much stability does a round ball need...) and would really show some good data for the concepts stated within. RN all the way! No turning, yawing, deforming or tumbling. It would certainly show if the round nose causes veering, Shoulder stability vs dart stability, and can you imagine the increase in powder capacity and ease of loading! Would certainly bring the big bore rifle world full circle.

Edit: not sure on the BC. Not that it matters at 15 yards, where this is most important, but a round ball is quite efficient at lower speeds, especially subsonic, vs FN's...but it's moot.

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

\*we band of 45-70ers\* (Founder) Single Shot Shooters Society S.S.S. (Founder)

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

you. | Registered: 29 April 2005



#### boom stick One of Us



posted 11 May 2010 08:54

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I don't know about you but when a girl... oh never mind 🕮

#### quote:

Originally posted by jwp475:

quote:

Originally posted by Extremist458:

Warrior, I agree with you, we are just playing with balls...but it is interesting.

Sounds a little kinky to me!!!!!

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

\*we band of 45-70ers\* (Founder) Single Shot Shooters Society S.S.S. (Founder)

Posts: 27557 | Location: Where tech companies are trying to control you and brainwash you. | Registered: 29 April 2005





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posted 11 May 2010 09:25

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A 300 grain 500 ish diameter bullet should penetrate like a 375 soft and have a decent damage path driven 2500 +

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Posts: 27557 | Location: Where tech companies are trying to control you and brainwash you. | Registered: 29 April 2005





posted 12 May 2010 00:47

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Well Boomy I still have not solved the velocity issue in the 50 Super Short! Put wads in between the powder and ball, made zero difference. I can't explain the velocity curves last week, never seen anything like that in all me shooting days! But regardless of velocity issues, I needed to test anyway and did. See below, not bad. No real trauma induced at the velocity of impact.









posted 12 May 2010 01:04

<u>Hide Post</u>

## quote

Originally posted by Macifej:

Guess you're looking at the anemic velocity? Try a plastic cup and a harder wad. Too much blow-by and minimal piston area. Could machine some custom if you wanna optimize ...

J, I know your balls would be better, no doubt about it! But not sure that it's worth the effort in the long run. You are 100% correct, I am getting blown by......Damn, wrong site again, let me see......no, this is the TBP thread, I'm in the wrong place again!

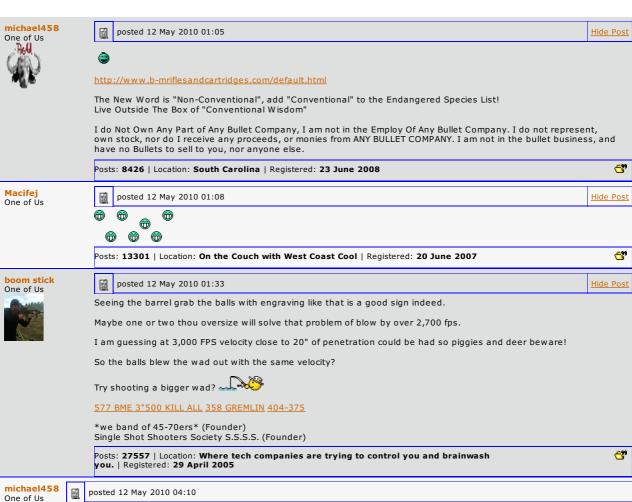
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Posts: 8426 | Location: South Carolina | Registered: 23 June 2008





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Enough already with the "balls"! Back to real work! Boomy, next step with the "balls" 50 B&M!!! Forget the Super Short, go up a step! Just talked with Jeffe and he sparked some ideas! So hold on!

I got the .510 taken care of today! 570 gr Hornady DGS and 570 gr Barnes Banded! First up the Hornady! If you recall, we tested one in Sam's double, very good straight line penetration all the way. We think Sam's twist rate is 1:15. I Know the twist rate in the 510 Wells is for sure 1:15. Sam and I tested only one bullet. Today I sent two more into the mix, and 1:15 is not quite enough to stabilize 100% of the time, a 55% meplat for caliber. It's trying hard, but still shows signs of instability. Regardless of this, it does still give enough straight line penetration to do an excellent job in the field!

I can tell you why this 55% meplat for caliber exists, and why the Hornady Nose Profile!

It feeds in the Ruger action without any modifications! This is why! This is the ONLY FN solid that has ever fed in my Ruger Mag action in 510 Wells!

I would venture to say that if this rifle had 1:12 twist it would stabilize the Hornady better for sure. But again remember, that even it's worst today is still enough in the field. But if I were taking it to the field, I would be sure to test a few more to find out if I had found the worst it could do!

510 Wells 1:15 Twist
570 Hornady DGS
Muzzle Velocity 2200 fps
22 yd Impact Velocity 2135 fps
#1--41 Inches Straight, veer up to
56 inches leaving test medium
5 Inches off course at 56"
No Recovery
#2--54 Inches Straight veering up
to 58 Inches where it tumbled
being 2 inches off course at 63

Inches.



510 Wells 1:15 Twist
570 Hornady DGS
Muzzle Velocity 2200 fps
22 yd Impact Velocity 2135 fps
#1--41 Inches Straight, veer up to
56 inches leaving test medium
5 Inches off course at 56"
No Recovery
Posts: 8426 | Location: South Carolina | #2555542 Inches Straight veering up

Macifej One of Us to 58 Inches where it tumbled

What ever happened to the "50 Salah Lest S.2...inches off course at 63

The location: On the Couch with West Coast Fool | Registered: 20 June 2007





posted 12 May 2010 04:45

Hide Po

There will be NO SLEEP in the "BBBC" tonight! What, "BBBC", what the hell is that???

'Barnes Banded Bashing Club"

Well not too many of those around anymore I think. Res

retty much speak for themselves!

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This is one of the deepest divers I have tested. I think only one bullet was in this category and that is the 320 9.3 Woodleigh. These lost stability at 70 inches, end of penetration, both bullets found in the same sheet of paper at 74". Remember, with me, only straight line counts however.

One more point about the Barnes Banded, it will not even begin to feed in the Ruger 510 Wells! Dead stop before it can jump out of the magazine.

I think we are seeing something start to show up over time. It's meplat size, Percentage of meplat for caliber is showing up I believe, not confirmed but more of an educated theory. I am beginning to lean heavy towards 65%-70% meplat of caliber being optimum size for self stabilization and depth of penetration combined. As most all the Barnes Banded solids 416 caliber and up falling in with a 65% meplat, or best as I can measure them. Our North Forks coming in at 70%. I would think that the GS Customs are right around this too. Our very own Agent J's broad meplat on his bullet comes in at a full 75% meplat for caliber. Now you all know I don't put a lot of faith in Sectional Density when it comes to the Flat Nose designs, and I don't here either. While SD might account for some difference between 535 grs and 570 grs, I do not believe it is the lead factor. I think we are seeing more of a factor with larger meplat slowing the bullet faster and retarding "depth" of penetration with an above 70% meplat for caliber. I might be wrong on this, educated theory mind you. Yes, some SD is a factor. Now do not read too much into this, this is not Black and White, other factors come into play!

For instance, the SH Precision bullet with the large meplat hits the medium with tremendous impact and transfer of trauma, far more so than the Barnes did, and no comparison with any of the others I have tested, which does not include the North Forks in this caliber. The SH Precision bullet penetrated more than enough to do ANY JOB EVER required of it in the field, and 100% dead straight as an arrow. Today if I had to chose one bullet for the 510 that I have tested it would be the SH Precision bullet over the others. Why, best of both worlds, life is a compromise and so are bullets. It still gives more than enough penetration for anything, but it hits harder up front than any of the other bullets. This bullet would slam the hell out of buffalo and elephant with that 75% meplat. What it might give up in total depth of penetration, it gains in trauma transfer.

One other point to ponder is that I have not run these bullets to the full potential of the 510 Wells either. Running rather average velocities of 2200 to 2275 fps with 570s and 535s. Velocity could be increased easy another 100-150 fps overall, penetration with all

As far as I know now, this concludes testing of solids in .510 unless someone wants me to do something else, these are all the available bullets I have in .510 caliber.

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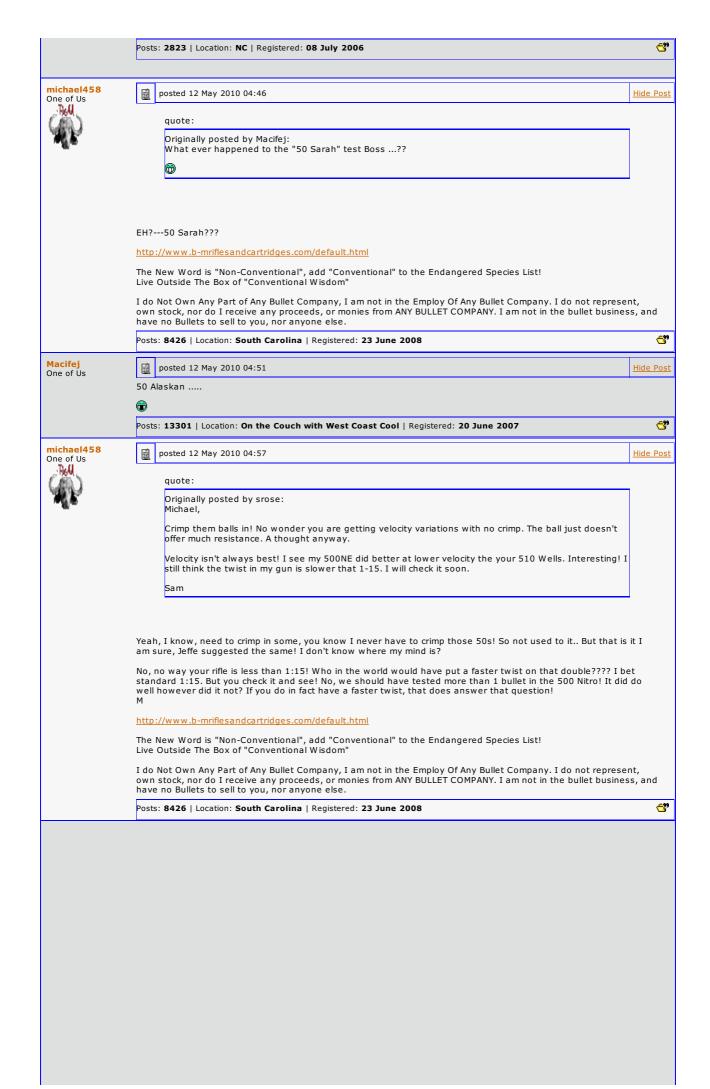
posted 12 May 2010 04:45

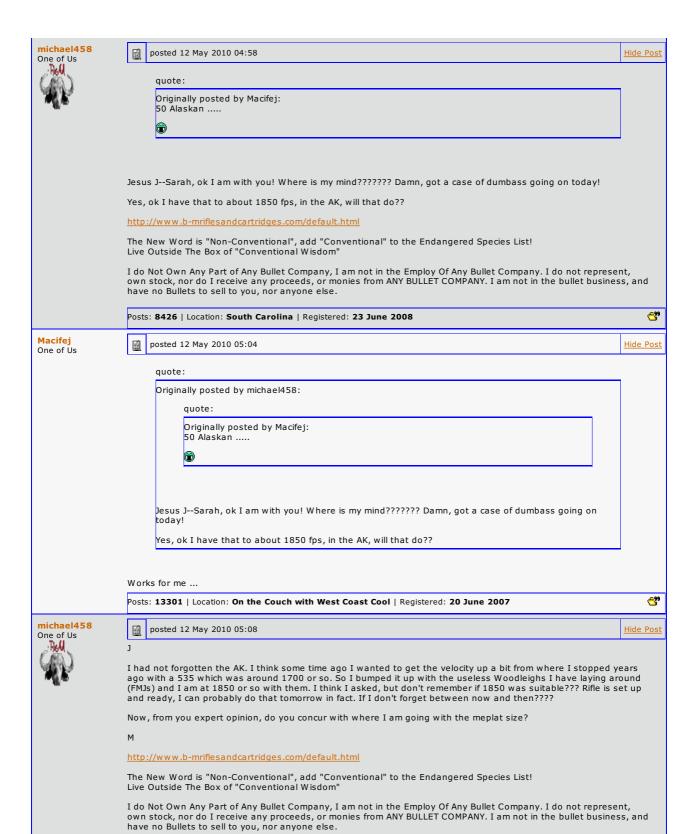
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Crimp them balls in! No wonder you are getting velocity variations with no crimp. The ball just doesn't offer much resistance. A thought anyway.

Velocity isn't always best! I see my 500NE did better at lower velocity the your 510 Wells. Interesting! I still think the twist in my gun is slower that 1-15. I will check it soon.

Sam





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

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posted 12 May 2010 05:11

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#### auote:

Originally posted by buffalo:

Interesting Michael But when you quit playing around with those balls, please do remember to do more testing of the 500 grs Hornady DGS in the 458 Lott

#### Buffalo

Yes, a more proper answer required! I will be back on the 500 gr Hornady DGS in 458 Lott next week! Don't let me forget, seems my mind is going. But that was schedule, after the .510s, back on the 500 DGS 458 Lott!

I will try and refrain from playing with my big brass balls in between!

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



# Macifej One of Us



posted 12 May 2010 05:12

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Where were we on the meplat dialogue? Mmmmm ... yes - those round balls don't have enough meplat!!



Get what you can out of the 50 Sarah. There are a couple guys who've queried me regarding loading the .510" x 535 SHARRC for Alaskan varmint hunting.

Posts: 13301 | Location: On the Couch with West Coast Cool | Registered: 20 June 2007



# michael458 One of Us



posted 12 May 2010 05:17

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#### quote:

Originally posted by Macifej: Think I'm loopy from some pain meds I'm taking. Where were we on the meplat dialogue? Mmmmm ... yes - those round balls don't have enough meplat!!



Get what you can out of the 50 Sarah. There are a couple guys who've queried me regarding loading the .510" x 535 SHARRC for Alaskan varmint hunting.

I can take that velocity up if you want. I figured that would be where about most of the guys with 50 AK would run them, so was trying to be within that. But I might not have figured correctly either??? Tell me where we need to be?

Can you imagine trying to get the meplat loaded straight up on a round ball? Hmmmmmm??????

NOw I know in CA it 's still early! But it is dark here nearly and being the hillbilly I am it's past my bedtime, so I am going to go now!

Tell me velocity on the 50 AK!

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





posted 12 May 2010 05:18

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What kind of pain meds? I love good pain meds!

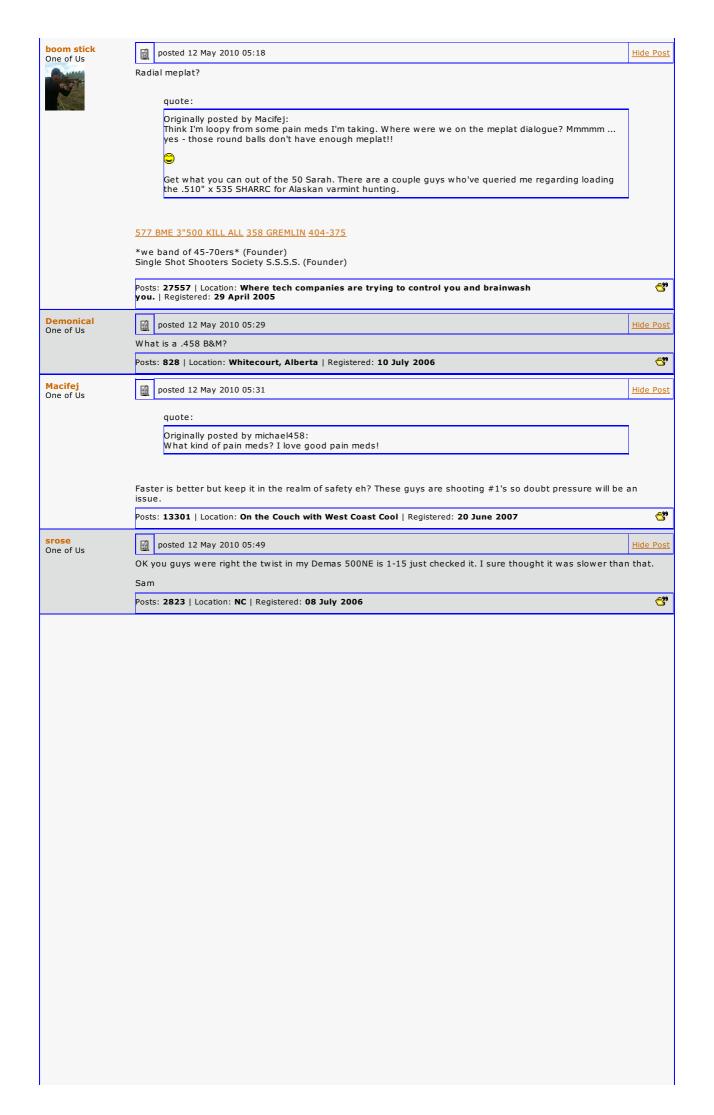
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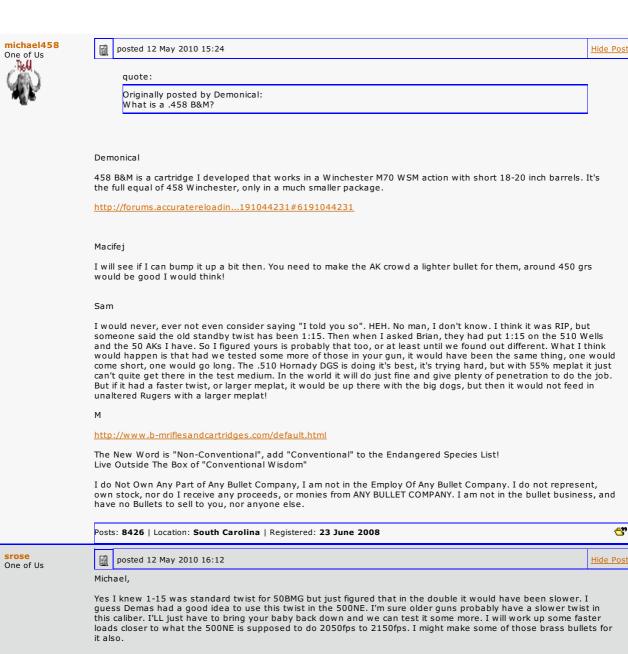
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Posts: 8426 | Location: South Carolina | Registered: 23 June 2008







Hide Post Sam Posts: 2823 | Location: NC | Registered: 08 July 2006 €" buffalo posted 12 May 2010 17:18 Hide Post 益 One of Us

Michael - was diameter of the 570 Barnes banded solids only .508" ????

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

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