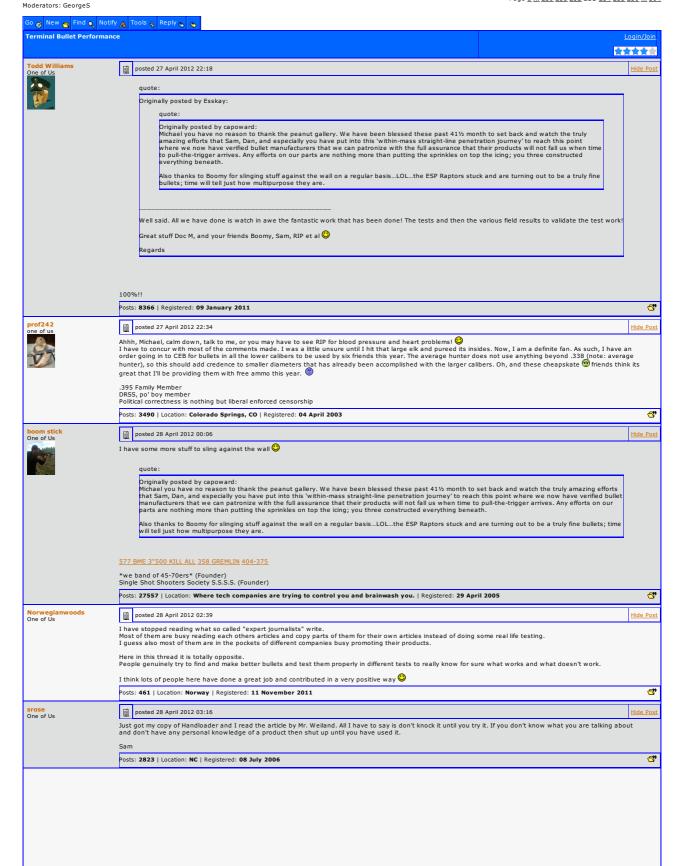
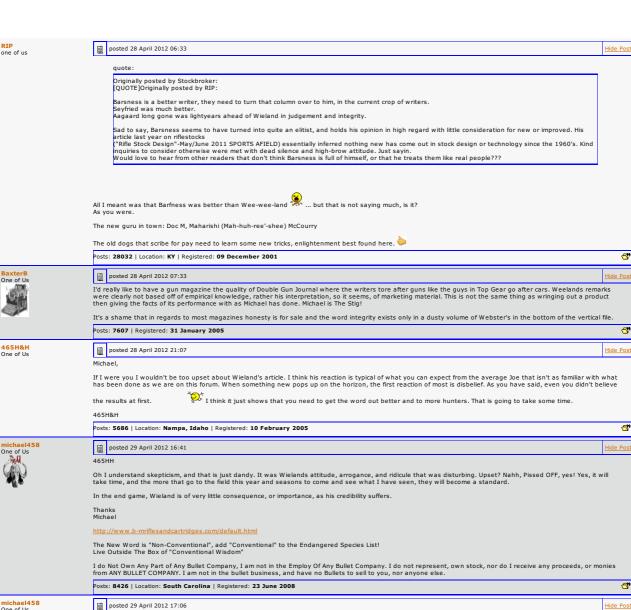
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posted 29 April 2012 17:06

We made an excellent decision to widen the cavity of the various .500s and .510s. I did the LVSPs yesterday on all 3 of the new version .500s---335 BBW#13 NonCon #W21LG--and the 450 BBW#13 NonCon #W20. I was extremely pleased with the LVSP. Before, the LVSP was between 1800 and 1900 fps on these---Rather high. Today, the new wider cavity is down to 1500-1600 fps--huge increase in performance.

First the 335 BBW#13 NonCon W23SS--Designed around the 50 Super Short--but of course will work in any and all of the various .500s out there, mine, RIPs and Jims, and others as well. .500 has become a rifle caliber now and is here to stay.

I had chrono issues with my downrange chrono on these first tests with the 335. I also never experienced the point at which I did not get shear. With the lowest muzzle velocity of 1724 fps, and estimating the 48 yd impact at 1500 fps and change--to be on the safe side I called the LVSP at 1600 fps. Although I am sure it is somewhat lower. Estimated BC from the earlier 345 version was .151. Considering I can start this off in the 50 B&M Super Short at around 2300 fps this gives it out to around 150 yards, which is about as far as I would want to shoot this anyway as a straight NonCon. In the 50 B&M I am approaching 2600 fps--500 MDM--I don't know, probably getting close to 2900 or so I imagine, RIP could do 2900+ in his .500 easy. We know how the 350 Raptor performed at 2750 fps!



365 BBW#13 NonCon #W21LG----Lever Gun. Designed for the 50 B&M Alaskan lever gun, bands are further forward, shorter nose projection to work through the Marlins. LVSP a real true 1600 fps as at 1550 I did have one that did not shear at all—another that gave perfect shear. Two at 1622 fps impact sheared perfect. LVSP-1600 fps.



The New 450 BBW #13 NonCon--W20.

I tested down to 1516 fps and got perfect shear at that velocity. I did not have time to go lower with it—and declared its LVSP at 1500 fps, which was a 300 fps increase over the 460! Excellent. Starting this one off at 2285 fps in the 50 88M this gives me to between 175-200 yards LVSP with an estimated BC of .171. Way more than enough as a standard NonCon. I can't imagine shooting anything that far to begin with, with this bullet. The 500 MDM can run it at 2500 fps. I did a test at a mere 2200 fps at the muzzle, 2021 fps at 48 yds—Massive Trauma inflicted in the medium X2 dead straight to 27 inches!!!! Way past buffalo penetration!



When the new W Talon Tips arrive, with the HPs--I will test these again to make sure the tips work, and in fact I think they will enhance the LVSP. New W Tips did in fact enhance LVSP in with the 350 Raptor, and the 9.3 tips enhanced the 210 Raptor as well, over standard NonCon LVSP.

New .510s have not arrived yet, should be this week. Now, with the 450 .500 going down to 1500 fps easy, the new 525 .510 will do 1500 fps and better for sure. Along with a new 475 gr or so NonCon that Sam ordered up with a new 500 gr Solid in .510! I have some of that order coming here as well! .510 is taking a jump forward! As you recall the 535 would not go below 1800 fps LVSP. At 1500 LVSP or lower, this works really good for you double guys starting out at 2000-2100 fps! Perfect.

## Michae

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

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

₫"

With the incredible success of the .500 350 Raptor and the 9.3 210 Raptor, I have been thinking more serious about the lighter bullets in both .500 and more important right now, the 475 B&M. We have this 320 gr BBW #13 NonCon in .474 for the 475 Super-Short, and a 375 North Fork CPS/FPS for the Super Short. But, I had not even worked a load for these bullet in the 475 B&M! I did a little of that this week as well. I now have the 320 BBW #13 NonCon at a tad over 2600 fps in the 18 inch barrel of the 475 B&M-Nice. Yesterday I got the 375 North Fork CPS at 2400 fps, and tested the North Fork! As you see, this North Fork is well into buffalo penetration! Hmmnmmm?



That's it for the weekend chaps!

This week I have to work on these--.338 caliber 175 ESP Raptor--200 ESP Raptor. .308 caliber 100 ESP Raptor---130 ESP Raptor. All LVSP + full velocity as well. This will pretty much sort me out for the week on test work.

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

**€**?9

posted 29 April 2012 19:36

posted 29 April 2012 20:27

Michael.

Maybe I have missed it in all the pages of this thread but have you done penetration and barrel strain tests on the Nosler FN solid?

**€**?9

Posts: 5686 | Location: Nampa, Idaho | Registered: 10 February 2005



Michael,
The tests look good, and you were testing low-level reliability. Of course, most of us would prefer over 20" penetration of the core for buffalo. While it is true that conventionals are deemed reliable at 16-18" in your medium, they also have a larger frontal surface for the last ten inches. If we give up that frontal surface it would be nice to get extra penetration.

We also know that things only get better when run to higher speeds. The 27" inches in the MDM sounds WONDERFUL. I look forward to keeping .510" impact velocites at over 2000 fps at 300 yards, 2500 fps at 100 yards. We want to see the new technology at work.

For 465: Check the meplat measurements on the Noslers for any diameter FN solid. Both Michael and the Rathcoombe (Shooting Holes in Wounding Theories) studies [also a must read] point to instability entering the picture at around 60% meplat, depending on rifling-twist. 65% meplat is more reliable for straight-line penetration, and higher twist rates are better.

"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 29 April 2012 20:32

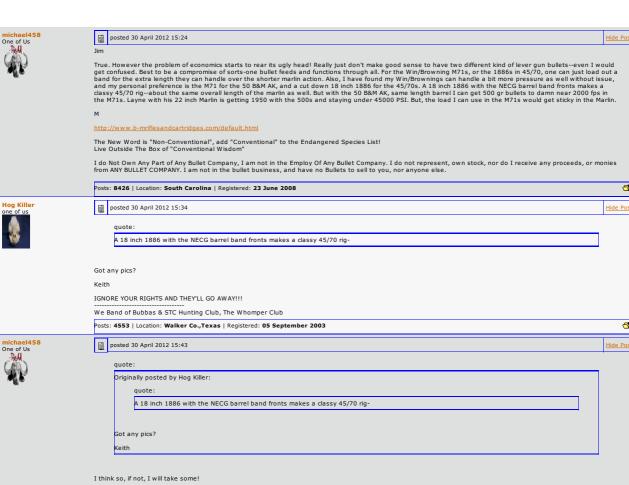
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Keith

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**♂** 

posted 30 April 2012 16:32





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

boom stick One of Us



posted 30 April 2012 18:54

I was thinking of an Elmer Keith inspired 45-70 Non Con levergun bullet. Three bands and the nose protrusion would be sub bore. One rear band and the forward bands to be narrow and angled for crimp. .450" shank, .458 bore, .5" nose protrusion, .45" sub bore BBW nose profile protrusion in front of top band, cavity depth to sub bore nose protrusion length, sub bore diameter before conical nose between .430" and .420" to be about 275 grains and travel out at about 2,300 fps. The KNC or Keith Non Con.

## 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

<u>ಇ</u>, Hide Pos



posted 30 April 2012 20:29

Michael, thanks for the pics. Those barrel band front sights really do look good on those lever action rifles. Those rifles are really first class!

Boomy, this is what you NEED to do. Just go out and buy you a CNC Swiss screw machine, set it up in your shop, learn how to program it, operate it, and care of it. Then you can make every bullet you can dream up.

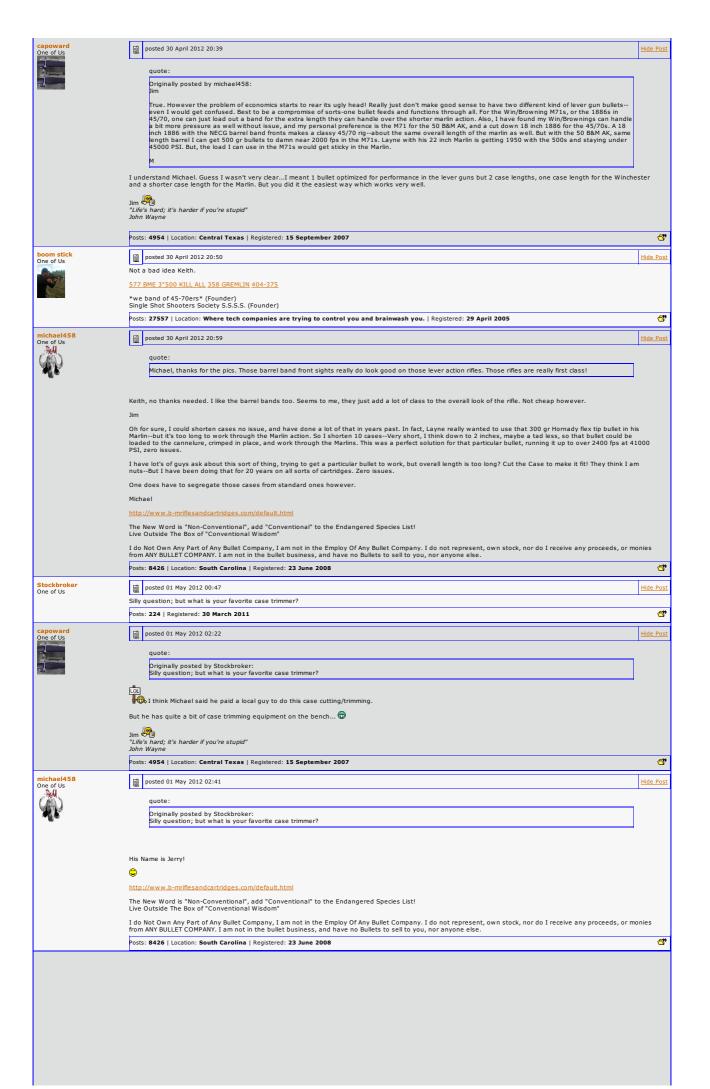
Keith

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Posts: 4553 | Location: Walker Co., Texas | Registered: 05 September 2003

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