

The TRIGGER

BY



Wisconsin Firearm Owners Inc.
Chartered by the National Rifle Association of America

August 2019



2019 Camp Perry

Presidents 100

The nationals always start with the most prestigious match. The Presidents 100. The top 100 competitors receive The Presidents 100 award and the top 20 are in the shoot offs to see who the best is. The highlight of the day was Brad S making the shoot off and winning high junior. Brad fired a 293-9 to put him in 13th place before the shoot off. His shoot off score of 92-1 put him at 15th place overall. Congrats Brad!

Excellent shooting. Also making the Presidents 100 at 50th place was junior Thomas M with a 289-9. Just missing the cut were Thomas K. and Sam C. Good shooting boys. Adult Team helpers Bryan M and Mike S also made the cut.



Brad and his father Jamie after the Shoot off

Mike S., Thomas M., Bryan M. and Brad S.
All four made the cut for the Presidents 100

National Trophy Individual

On the second day is the National Trophy Individual match. This is a 50 shot "Excellence in Competition" match.

The top 10% of non-distinguished shooters earn 10 points towards becoming a distinguished rifleman.

Two of our juniors made the cut. James L. fired a 479-14x to place 61st out of the 675 non distinguished shooters. Brad S. placed 15th non distinguished with a 488-11x and earned his final points needed to become a distinguished rifleman. Congratulations Brad! Brad joined Thomas M. on stage to receive his distinguished badge at the awards ceremony. Thomas M. fired an excellent 489-22x to place 3rd junior.

Team helper Bryan M. fired an impressive 494-20x to place 12th overall.

Freedoms Fire 2 Person Junior Team Match

Team Cheddar is victorious again!

Brad S. and Thomas “Shooter” M. won the Freedoms Fire 2-person junior team match. Coached by “Big Cheese” Kaleb H., Team Cheddar placed 1st out of the 55 junior teams competing. They fired a 978-28x. Just 1 point and a few X’s away from the national record. Placing 16th was Team Colby firing a 934-17x. Team Colby consisted of Thomas “TK” K. and Sam “The Hammer” C. Team Mozzarella, consisting of “Sweet Baby” James L. and Andrew “Bobby” B., fired an 878-15. Coached by Mike S., Sweet Baby James fired a nice 479-11.

Waylon S. and David H. formed Team Swiss and were coached by Jim S. Waylon S. fired a personal best. Excellent shooting by all of our juniors! Brad S. and Thomas M. also earned a place on the Deneke team for being in the top 6 six juniors firing in the Presidents 100, National Trophy Individual, and National Trophy Junior Team matches. Brad placed 1st and Thomas placed 3rd. Congrats boys!

A big thanks to [The Wisconsin Trigger Company, INC](#), [Krieger Barrels](#) and [Sierra Bullets!](#)

National Trophy Team Match

On the fourth day is the National Trophy Team Match. Our juniors shot very well in some tricky conditions. We ended up taking 3rd place junior team. Thomas M. led the way with a 492-22x. Thomas K. was right behind with a 485-13x. Brad S. fired a 483-17. James L. shot a personal best 481-14. Sam C. shot a 470-9 and new junior Andrew B. shot a 436-8. The team ended with a 2847-83x. Thomas M’s 492-22x was a good enough score to earn an Elihu Root gold medal and earn a spot on the National Civilian Rifle Team. The top 6 civilians in the NTT make up the National Civilian Rifle Team. Thomas also placed first junior in the Presidents 100, National Trophy Individual, and National Trophy Team Match aggregate. His 1270-53x was just 3 points behind the national record. Nice shooting Thomas!

National Trophy Infantry Team Match

On the fifth day is the National Trophy Infantry Team Match. Better known as the Rattle Battle, the match is a rapid-fire match fired at 600, 500, 300, and 200 yards on silhouette targets. Each 6-man team gets 384 rounds to fire at 8 targets. We start at 600 yards and work our way to 200 yards. The targets are visible for 50 seconds and only hits count. Our Wisconsin Junior Team placed 4th place junior team. This is a fun match and is a great way to end our week of shooting at the National trophy rifle matches.



Later in the afternoon was the awards banquet. First up were Thomas M., his dad Spencer M., and Brad S. They received their distinguished rifleman badges and joined only 2400 civilians since 1905 to earn the distinguished rifleman badge. Brad and Thomas would be back on stage many times in the evening to receive awards for high junior in the Presidents 100, high junior in the Mountain Man aggregate, high junior and 3rd junior for the Deneke trophy, Elihu Root Team, and 1st place in the Freedom Fire Trophy. Coach Kaleb H. and captain Dave Holub were also on stage for the Freedoms Fire and Deneke trophy.

This will be the last year as a junior for Brad S. In 2017, Brad first joined our team. That year, we won the 2-man team and 6-man team. Brad has been a huge part to our success the last few years and has been a great addition to our team. Brad has many years of great shooting ahead of him and we want to thank him for all the excellent years of shooting with our team. It has been a fun 3 years! We will see you on the range!

We want to thank all of our adult helpers that have volunteered many selfless hours helping our juniors achieve success. It wouldn’t be possible without all of your support. Our Junior team is entirely self-funded by selling raffle tickets and through donations. We are trying to grow our MidwayUSA Foundation account to a point where we can withdraw enough each year to cover most of our costs. If anyone is interested in donating to our Junior team, please consider contributing to our [MidwayUSA Foundation Account](#). All help is appreciated!

Adult Six Person Team



2019 is the second year of Wisconsin's six-person team (in recent years). Tom Jones has been the organizer with the vision of developing a state team that can compete with the top states at the national level. It has been a building process and a lot of hard work. Finding people that would want to shoot on the team was just part of the organizing. Tom had to find pit pullers, score keepers and coaches. He also organized a raffle to cover the cost of match fees and had t-shirt printed. His wife Brenda did a great job designing them. The team has been fortunate to have volunteers to pull pits both years. Some other teams pay up to \$200/person to have pit pullers. This year we had great pullers with Jay Dyrzcz and Terry Mueller. They gave us great service. Larry Weidell from Minnesota offered to stay an extra day and coach us. Larry was a great asset to the team. Randall Holterman verified and scored for the adjacent team. Without all the help it would not have been possible. "A BIG THANK YOU to you all". As for the competitors we had Tom Jones, William Van Treek, Bryan Wulf USMC, Todd House, Bryan Melville and James Melville. Shooting out of competition, the team finished 14th

out of 39 team. With a score of 2795-51. Not too bad for a building year finishing in the upper half. The future plan is to have 2 adult teams from Wisconsin in 2020 with one shooting in competition. Tom has mentioned that he was going to have a qualifying process. This would be accomplished by competitors interested in being on the team would send in scores from matches. This would determine who would be on the top team. Watch future Trigger's for detail on where to send scores if interested.

Wisconsin Firearm Owners Upcoming Events and News

Upcoming Events

Nicolet

Sniper 80 shot 200yrd

August 17, 2019

LaCrosse

4 Gun 600 State Championship

August 24 & 25, 2019

Eau Claire

4 Gun 600

August 31, 2019

Eau Claire

80 Shot NMC

September 1, 2019

Eau Claire

M1 Garand & M1A Match

September 2, 2019

Nicolet

80 Shot NMC Reduced

September 7, 2019

Wausau

M1 Garand State Championship

September 8, 2019

Nicole

The new web site is up and running. We have had no email and are working on getting the bugs worked out of the new system. Therefore, you didn't receive a Trigger in July.



[The Wisconsin Trigger Company, Inc.](#) donated a complete match ready AR-15 lower to Wisconsin CMP Juniors.

Wisconsin's Team Cheddar won the Jr. Doubles match at Camp Perry. Left to right Coach Kaleb "The Big Cheese" Hall, Ron from The Wisconsin Trigger Company, The shooters Thomas McGowan and Brad Schoenemann. Both are using the same X trigger presented to Coach Hall. Great shooting.

M1 Garand
September 14, 2019

Neagunee
Mid-Range
September 14, 2019

Lodi
4 Gun 600
September 22, 2019

Eau Claire
4 Gun 600
September 28, 2019

Eau Claire
80 Shot NMC
September 29, 2019

See Calendar on web page for other events:

<https://www.wisconsinfirearmowners.org/>



Brad Set a new NRA Junior Record with his score. The previous record was held by James Fox from Oregon, with a score of 793-42.

Congratulations Brad, that is some outstanding shooting.

Check us out on our web site at:

<https://www.wisconsinfirearmowners.org>

Check us out on Facebook @ **Wisconsinforce**

Wisconsin River Sportsmen's Club



Wisconsin River Sportsmen's Club is located outside Mazomanie on Hwy Y fire number 1004.

A member driven club organized in the interest of conservation and the preservation of wildlife.

From its humble beginnings more than 55 years ago (when meetings were held in an old chicken coop) the Wisconsin River Sportsmen's Club has grown and developed into a not-for-profit organization that not only provides and supports shooting activities, but also gives back to the surrounding communities.

Wisconsin River Sportsmen's Club offers Trap shooting, Rifle shooting at 50 and 100 yards and Pistol shooting. Every Saturday from 9 to noon the pistol range is open to the public.

Through our many volunteer efforts and / or funding support to various organizations, we help support our communities and promote conservation and wildlife preservation.

For more information on Wisconsin River Sportsmen's Club go to:

<https://wrsclub.org/home>





- **Wisconsin Firearm Owners** gives you a voice in Madison to protect your **Second Amendment Rights**.
- We are the **only** **NRA** State Chartered Association in Wisconsin.
- **WFO** and the **NRA** led the lobbying efforts for Right to Carry and The Shooting Ranges Protection Act.
- **WFO** provides Club and Range support for those looking to expand and improve their ranges.
- As your **NRA** and **CMP** State Association, **WFO** sanctions State Championships for multiple shooting disciplines.
- Our lobbying efforts have helped to clean up Wisconsin's handgun restrictions.
- Advancing hunter rights and mentored hunting in Wisconsin.

JOIN US TODAY TO HELP PROTECT YOUR GUN RIGHTS. www.wisconsinforce.org

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Mail To: Wisconsin Firearm Owners

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I certify that I am not now, and never have been, a member of any organization which has in any part of its program, the attempt to overthrow the government of the United States by force or violence, and that I have never been convicted of a felony, crime of violence, or misdemeanor domestic violence, and I am not otherwise prohibited from owning firearms. If admitted to membership in Wisconsin Firearm Owners, Ranges, Clubs & Educators Inc. I will fulfill the obligations of good sportsmanship, and I will uphold the Constitution of the United States of America and the Second Amendment thereto.

Signature _____ Date ____/____/____ Donations to Wisconsin FORCE are not refundable or transferable and are not tax deductible as charitable contributions for tax purposes.



Why Are Hollow-Point Rifle Bullets More Accurate?

by Michael Bussard - Sunday, August 19, 2018



From 1920 until the mid-1950s, full metal jacket (FMJ) bullets remained the epitome for high power competition. Handloading was not common, so competitors relied on government arsenals for match-grade, .30-06 Spr. ammunition for use in the [National Matches](#) and other shooting events. Arsenal match ammunition was considered state-of-the-art and was perpetually in short supply. Ammunition lots performing particularly well were carefully hoarded, traded and fired judiciously. Naturally, government arsenals made what they knew best and had tooling for—FMJ bullets.

By the mid-1950s, improved match rifles were better than arsenal ammunition. This dilemma spurred improvements in ammunition and led many competitors into handloading. Sierra Bullets began offering match-grade, hollow-point boattail rifle bullets which offered significantly improved accuracy over FMJ bullets. As records tumbled, hollow-point boattail bullets increasingly ruled high power competition.

Now, decades later, high power competitors rely on hollow-point boattail match bullets for serious competition. Civilian shooters had no choice but to [handload](#) such bullets until the mid-1970s. At that time, ammunition manufacturers began offering factory-loaded, match-grade rifle ammunition in selected calibers with hollow-point boattail bullets. U.S. military shooting teams also found it necessary to handload hollow points to [remain competitive](#). In the early 1980s, increased military demand for match ammunition loaded with hollow-point boattail bullets led the U.S. Army to adopt the 7.62mm M852 match cartridge made at [Lake City Army Ammunition Plant](#) using bullets purchased from qualified, outside sources.



Nosler Custom Competition hollow-point rifle bullets include: 1) a hollow point that provides small meplat for increased aerodynamic efficiency, 2) a quality jacket, 3) lead-alloy core for stability, and 4) boattail design for optimum flight characteristics at multiple velocities

The "Perfect" Match Bullet

From the standpoint of interior ballistics, the ideal match rifle bullet would be a bore-diameter, homogeneous cylinder with flat ends perfectly square to its body. Such a bullet would be cheap, easy to manufacture and have maximum bearing surface for superior accuracy.

From the standpoint of exterior ballistics, an efficient match rifle bullet would have a high length-to-diameter ration; a sharp, drag-reducing point; and a tapered base (boattail). Such a bullet would offer high retained velocity, flat trajectory and minimum [wind drift](#).

From the standpoint of terminal ballistics, the ideal match rifle bullet would offer a center of gravity displaced toward the base, a jacket with no sidewall variations and a core with no weight variation.

Such a bullet would offer consistent, reliable, [sub-minute-of-angle \(MOA\)](#) accuracy from lot to lot. These requirements pull match rifle bullet designers in different, often mutually exclusive, directions.

As a result, all match rifle bullets are a compromise—none are perfect.

Labor for Accuracy

When a bullet jacket is drawn, some variation in sidewall thickness has to be tolerated, but the amount must be kept minimal. Most military FMJ bullets and expanding hunting bullets have average sidewall runouts of .0008-inch. Match-grade rifle bullet jackets must average less than half that, as bullets with

minimal sidewall variations are more concentric and therefore more accurate.

Many match bullet manufacturers prefer continuously annealed, virgin, 95/5 copper alloy (95 percent copper and 5 percent zinc) material for jackets, as it offers excellent draw characteristics and superior tolerance control. In contrast, many FMJ and hunting bullets are made with reprocessed, 90/10 copper alloy jackets or even plated-on jackets.

However, a high quality jacket is not enough. Minimal jacket sidewall variation must be maintained as the bullet is manufactured. Some bullet designs accommodate this while others do not. For example, as the jacket's flat base is formed into a point to make an FMJ bullet, displaced jacket material creates sidewall variations regardless of how true the jacket was to start with. On the other hand, the ogive of a hollow-point bullet is formed on air and the jacket sidewalls left undisturbed.

For consistent accuracy, a bullet's base must be square to the body. Bases which are not square induce excessive yaw at the muzzle as the bullet uncorks unevenly. Holding bullet squareness in a bullet formed on the heel is much easier than one formed on the tip. Hollow-point bullet cores are inserted from the front and the point formed using the flat heel of the bullet as a base. With this method, holding base squareness is easy. Cores for FMJ bullets are inserted from the rear and the bullet formed on the tapering bullet ogive. This makes it difficult to hold base squareness consistently. Weight variations are easier to hold in hollow-point bullets as the soft lead core easily fills the jacket and the front face of the core under the hollow point remains flat. In an FMJ bullet, weight variations resulting from seating the hard lead core in the tapering jacket are much harder to control and create variations in base configuration. Hollow-point match bullets often vary less than 1/2-grain in total weight, while FMJ bullets can vary by twice that and more.

About the Shape of Things

Many shooters feel the sharp point on an FMJ bullet will slice through the air better than a hollow point bullet which has a small flat (or meplat) across the tip. While the sharp point of the FMJ bullet is slightly more efficient than the hollow point design, the difference is minimal. This is because tip drag on a pointed bullet accounts for less than five percent of total drag. In real terms therefore, the sharp tip of the FMJ is barely a percent or two more efficient than the hollow point.



Many bullet manufacturers, including Sierra Bullets, have found it easier to build concentric, balanced hollow-point boattail bullets than FMJs

Most rifle bullets have a tangent (sharp) ogive or a secant (sharper) ogive. While the sharper point of the secant ogive may have appeal, the tangent point maximizes bearing surface, critical to accuracy. For this reason, most hollow point match bullets have tangent ogive points. Hollow-point match rifle bullets have a very small opening in the nose. This minimal opening is designed to maintain a minimal meplat. It is not designed for expansion. In fact, most hollow-point match rifle bullets will not expand on impact unless the target is at extremely close range and even then, expansion may be erratic. (For those reasons, match bullets should never be used for hunting.)

The streamlined, tapered base of the boattail bullet significantly reduces base drag that translates directly into higher retained velocity, flatter trajectory and less wind drift. These are vitally important advantages for competitors at all ranges. However, one size does not fit all and a tapered base eats up bearing surface, so boattails come in different lengths and taper angles tailoring each to bullet caliber, length, weight and average muzzle velocity.

Note that match rifle bullets do not have a cannelure. This is intentional as a cannelure distorts the jacket sidewalls, upsetting concentricity. The purpose of a cannelure is to help control bullet seating depth by giving the crimp a place to grab the bullet securely. As match rifle bullets are never crimped, the cannelure is not necessary.

Summary

Hollow point boattail rifle match bullets will continue to dominate high power competition because they comprise the best combination of features, performance and consistency for the price.

Lead image courtesy of [Sierra Bullets](#). It is the .243 Cal. 107-grain Hollow-Point Boattail MatchKing bullet



Wisconsin Firearm Owners (WFO)

Mission

To promote and support the purpose and objectives of the National Rifle Association, while protecting and defending the Constitutions of the United States and the State of Wisconsin.

Securing Our Rights

The assaults on the rights of today's firearms owner have never been stronger. These attacks on our civil rights come from anti-hunting, anti-gun, and anti-civil rights organizations. We must stand together to preserve the rights guaranteed to all free citizens under the Second Amendment, the U.S. Constitution, and the Wisconsin Right to Keep and Bear Arms. WFO has a constant presence in Madison helping to ensure your voice is heard. Whether it is the right to self-defense, micro stamping or hunting regulations, we are involved. Combine your voice with that of thousands like you in Wisconsin; our united voice cannot be ignored.

Club and Range Support

We are the experts in the State advising the Wisconsin Department of Natural Resources, clubs, and businesses in upgrading, improving, and the design of ranges.

Competitions

Matches and events are listed on our calendar. Match Directors can also utilize our on-line registration. NRA discipline championships are authorized and promoted by WFO. **Please join us today!**



Wisconsin Firearm Owners Junior Service Rifle Supporters



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<http://www.nosler.com/>



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