



# Riverside

*Located in the densely wooded New England countryside with facilities to support our members whether your interests are competitive shooting, breaking clays, fishing, plinking, sharpening your skills for hunting or just socializing.*

## Quarterly

September 2022

### Archery

Year round programs for both junior and adult archers. USA Archery, State Assoc., National Assoc., and the Junior Olympic Archery Development (JOAD) Program.



[\(See on page 3\)](#)

### High Power Rifle

A variety of programs for a range of shooting interests including participation in the Highpower, CMP Civilian Marksmanship Program events and the Rifle Clinic.

### Pistol & Rifle

A variety of programs for a range of shooting interests

### Skeet & Trap

Tuesday, Thursday and Sunday Shoots every week. Three fields are configured to support different shooting programs including skeet, trap and 5 stand with lights

[\(Continued on page 2\)](#)



### Banquet Facility

Function hall, dance floor, band stand, and kitchen area with a separate entrance area and full function bar has a capacity of 150. Rental includes bartender and cleanup. Caterer and DJ available for functions.



### Clubhouse

Outdoor Patio, Horse Shoes, Trout Pond, Sports Bar Big Screen in the Smoke free Club House, Banquet Hall dates available.



Club information will be maintained on Facebook <http://www.facebook.com/RiversideGC.org>

### Fish & Game

The trout are jump'n in our fully stocked trout pond. Badges available at the clubhouse.



### Education & Training

The hands-on firearms courses, education & tactical schedules

## SKEET & TRAP

Summer is over and shooters are coming back in full force. Our monthly 5-stand events are drawing crowds, along with a number of new shooters. Some of our more seasoned shooters are breaking new ground. Phil S shot his first perfect 100, while others are regularly breaking 25 in a row. As fall is upon us, we're preparing for winter maintenance. A big thank you to Jeff C and Chris M for preparing our snow removal equipment to deal with those snowy weeknight shoots, while preparing summer equipment for winter storage. Our holiday shoots are just around the corner. Events scheduled for the remainder of the year can be found here.

[\(Continued on next page\)](#)

## Jr. Rifle

2022 - 2023 SEASON

We're looking forward to another successful season of Junior Rifle & Air Pistol. As with last year, we will be running three one-hour sessions with eight people per session for a maximum capacity of 24.

We will not have any Covid specific requirements, but we do insist that if the junior or parent are ill, they should stay home. You can sign up here: <https://signup.com/go/PVqkhJM>

Payment must be made on the first night of the program when we will run orientation and acquaint the participants and parents with the program. Unfortunately we won't be able to get to the range on the first evening.

[\(Continued on page 4\)](#)

## from the President's Desk

[\(Continued on page 2\)](#)

This is your opportunity for you to put your name on the ballot and make a significant contribution to our Club! We need officers who are Team Players. The requirements for running for office are spelled out in the club bylaws and can be found on the club website [www.riversidegc.org](http://www.riversidegc.org).

## Archers

### Summer Season Report

*TOURNAMENTS*

*EXPLORE ARCHERY*

*ADVANCED JOAD*

*INDOOR LEAGUE TO START*

[\(See on page 3\)](#)



Phil S 100 straight!



Thanks Jeff C and Chris M



Chris first perfect 25!



Thanks for loading targets in houses!



Thanks to Richard S for clearing trap area!



Jeff at Station 4

<https://riversidegc.org/Skeet.shtml>. We welcome lessons for new shooters, as well as corporate outings.

Please contact me if interested. Hope to see more of you on the fields.

*Frank Harrington*  
Chairman

## PRESIDENT'S DESK

*(continued from cover page)*

You may also contact either Army Buckman, [army27@gmail.com](mailto:army27@gmail.com) Election Committee Chairman, or the club manager during normal business hours, Mike Brophy, 978-562-2404. Whether you want to run for office or not, it is especially important that you attend the elections to meet the candidates and vote.

The Fall calendar is filled with a number of events: Club Officer Elections are to be held Sunday, December 18th and the Kids Christmas Party is the same day as the election. We will vote on the changes to the bylaws and Club Officer may be nominated at the October 17th General Membership Meeting. You may submit your self-nomination any time prior to the meeting.

The Pistol Team's Winter League begins October 5th; Jr. Rifle Program starts October 14th; Archery will have the three JOAD programs on Saturdays: Explore Archery (Pathfinders), JOAD Intermediate (Trail Blazers) and JOAD Advanced and JOAD Competitive (Road Team.) In addition, the Indoor Fall 450 League starts on Wednesday, October 5th. This league will run for 11 weeks and be followed up with the Indoor Winter 600 league starting in January for 12 weeks. Consult club calendar for times.

The clubhouse is open 7 days a week from 4:00 until 8:00 (open at noon on Sunday)--stop in for some chicken wings, French fries and a cold beverage when you leave the range. Weather permitting, the patio will be open for another 4 - 6 weeks, weather dependent. The club lounge is a great place to be on Patriot's game day—check the fliers on the bulletin board details.

We will have a complimentary buffet on election day, so plan to make a day of it.

See you on the range...

*Mike Connelley* President, Riverside Gun Club



## Riverside Archers

### Summer Season Report



#### *OUTDOOR TOURNAMENTS*

With COVID-19 restrictions relaxed, the Riverside Archers team was able to compete at both Mass State tournaments as a team this summer season. The advanced JOAD and Road Team and their coaches (pictured above) had impressive results to show for the hard work and training they put in to prepare for each.

#### *2022 MA STATE JOAD CHAMPIONSHIPS RESULTS:*

The day started off humid from the rain that came the night before. This 72-arrow competition transformed into a beautiful, sunny day by the time it started. The team did well as 5 of the six that went earned bling. The 6th one had equipment issues that caused a 4th place finish, but performance goals set for the tournament were met.

This was the first official competition for two of our Intermediate JOAD archers (not available for this picture). It ended well for them as they each took a silver medal. In their first tournament.

#### *2022 SAAM STATE CHAMPIONSHIPS RESULTS:*

It was a blistering hot and steamy 2-day, 144-arrow competition that tested the mettle of all archers on the field. All of our Team participants earned medals from this event. 2 of our Intermediate JOAD archers took silver medals (again). One of our Adult Archery Achievement archers (not pictured) took a gold

#### *FALL INDOOR 450 ARCHERY LEAGUE TO START OCTOBER 5*

- Shoot and submit two 450 scores (45 arrows) by October 3.
- Put name and contact info (phone# / email) on scorecard back
- Leave completed scorecard behind score cards in the Scorecard Box located on range locker doors.
  - League held on Wednesday evening starting at 6:30pm.
  - Duration: 11 weeks includes shoot-off (league ends 12/14/22).
  - Cost: \$50 (includes medals for winning teams).

**CONTACT:** *Larry Sullivan at 978-875-2338 (phone or text to sign up)*



# RIVERSIDE JR RIFLE PROGRAM

## ABOUT THE PROGRAM

The Riverside Junior Rifle and Air Pistol program is dedicated to the advancement of junior marksmanship in both Smallbore Rifle and Air Pistol disciplines. Our top priority in the program is safety. We instruct participants on the safe & responsible use and handling of firearms as well as range safety.

Participants are required to follow all safety protocols at all times. This includes wearing safety glasses on both ranges, hearing protection on the rifle range, following safe firearm handling procedures, and observing all range safety rules. Participants are also required to wash their hands thoroughly after each range session. Due to the nature of this activity, violations of safety protocols may result in ejection from the program. For participants under the age of 18, a parent or guardian must

remain in the clubhouse for as long as the shooter is present. No Drop-offs.

The program follows the NRA Marksmanship Qualification Program and is open to participants aged 10-18 inclusive. Shooters have the opportunity for recognition of advancement through the NRA Junior Marksmanship qualifications for both Smallbore Rifle and Air Pistol. Qualifications are awarded at the end of the season at the Program banquet.

The program runs on Friday evenings at 6:00, 7:00 and 8:00 beginning on October 14th 2022 concluding with our end of year banquet on March 17th. There is no shooting on days when Hudson schools are closed for inclement weather. For this year, signups are online here: <https://signup.com/go/PVqkhJM>

Please note that there are separate slots for Rifle and Air Pistol. If you intend to shoot both, sign up for both - but for different slots. For example, if you want to shoot rifle at 6:00, you could sign up for air pistol at 7:00 - or vice-versa. We do not want anyone trying to go between ranges during the same time slot.

The program is limited to 3 sessions of 8 participants each, 24 total.

**On the first evening (Oct 14), we will have one orientation session beginning at 6:30PM. This session will cover important safety information as well as other details about the program and is mandatory for shooters and their parent / guardian. This will be held in the clubhouse.**

## 2022-2023 SEASON CALENDAR

### Shoot Dates:

- October 14th One ORIENTATION session at 6:30. **ALL participants, and a parent or guardian MUST attend. We WILL NOT have time to shoot on the first evening.**
- October 21, 28 Assigned timeslot, 6:00, 7:00, or 8:00
- November 4, 11, 18 Assigned timeslot, 6:00, 7:00, or 8:00
- December 2, 9, 16 Assigned timeslot, 6:00, 7:00, or 8:00
- January 6, 13, 20, 27 Assigned timeslot, 6:00, 7:00, or 8:00
- February 3, 10, 17 Assigned timeslot, 6:00, 7:00, or 8:00

- March 3, 10 Assigned timeslot, 6:00, 7:00, or 8:00
- March 17 Awards End of season Banquet (TBD), NRA Qualification

### NO Shoot Dates:

- November 25, 2022 Thanksgiving
- December 23, 2021 Christmas Break
- December 30, 2021 New Years
- February 24, 2021 February Vacation

Please note that we will not make up any Fridays missed due to inclement weather.

## SMALLBORE RIFLE

Our NRA / USA Shooting certified coaches provide training and instruction to our juniors in 3 shooting positions (prone, kneeling, and standing). All the various aspects of marksmanship are covered and reinforced including correct position, natural point of aim, sight picture, and sight alignment, hold, trigger control, breathing and follow-through. Safety is paramount and is the overriding principle under which the program operates. Shooting is performed at the Riverside indoor range at a distance of 50 feet. The range has 8 points. The course of fire for beginner and intermediate shooters is 25 rounds at 5 bullseyes. Advanced shooter's course of fire is 20 rounds at 10 bullseyes, with 5 rounds allowed at a sighting target to allow for the adjustment of sight prior to the course of fire.

## AIR PISTOL

Junior air pistol participants have the opportunity to develop their pistol marksmanship utilizing competition air pistols and skilled instruction on proper mechanics. Shooting is performed at the Riverside 10 meter indoor air range. The range has 4 points. In each relay, shooters complete a 10 round course of fire at a single target. **Shooters may participate before or after their assigned time on the rifle range - not in the same time slot. Please speak with one of the coaches for additional information.**

**Contact Information:** Please send an email to [rgc.jr.rifle@gmail.com](mailto:rgc.jr.rifle@gmail.com) if you have questions.

**COST:** RIFLE & AIR PISTOL - \$120

**Advanced Shooting Opportunities:** Although this program is geared toward beginner and intermediate level participants, there are multiple opportunities for shooting at an advanced level locally and nationally. We have had several shooters go on to participate at an advanced level and travel to the Olympic Training Center, Civilian Marksmanship Program in Ohio, and several colleges. If you are interested in these advanced opportunities, please see one of the coaches or send email to [rgc.jr.rifle@gmail.com](mailto:rgc.jr.rifle@gmail.com).



G U N

C L U B

## CALL FOR NOMINATIONS

## CLUB OFFICERS 2023

*Any member who has been member in good standing for the past 12 months may self-nominate or be nominated by another member for any of the elected officer positions listed below.*

**Self-Nominations:** The nominee must state, in a dated and signed letter addressed to Army Buckman - Nomination Committee Chairperson, the office he/she is self-nominating for. The letter shall also include the nominees' address and telephone number.

Self-nominations may be handed to Army Buckman, Michael Brophy- Club Manager or Michael Connelley- President or e-mail to Army Buckman, army27@gmail.com. They must be in the possession of one of the people listed above no later than 5:00pm Monday October 18th.

**Nominations**, other than self-nominations, may be made at the October 17th General Meeting. Write in candidates at the poll are not accepted.

During the October 17th General Meeting, Seconds will be sought for all Nominations and Nominations will close. Nominees must be present at the meeting to accept nominations. If the nominee cannot be present, he/she must notify the Nomination Committee Chairperson in writing, (same form and requirements as the self-nomination) the reason they cannot be present and the offices they will and will not accept nomination to.

**Annual Election:** will be held on Sunday December 18, 2019 10:00am to 6:00pm.

### Elected Officer Positions:

President	Second Vice-President	Recording Secretary
First Vice-President	Financial Secretary	Executive Committee – 5 members

The duties and responsibilities of all elected officers are detailed in the Riverside Gun Club ByLaws dated November 9, 2010, Articles IV & VI. A copy of the ByLaws is also posted on the Club WEB Site ([www.riversidegc.org](http://www.riversidegc.org)).

## DART TEAM

Team "Fully Loaded" representing Riverside Gun Club Minuteman Division C State Champs !



Left to Right:

Steve Donahoe, Rob Grant, Justin Waters, Derek Donahoe, Bridget Donahoe, Wendy Donahoe, San McLatchy  
Congrats Guys!!!



# RIVERSIDE PISTOL TEAM

## 2022-2023 SEASON PLAN

### 2022 – 2023 SCHEDULE:

The Riverside Pistol Team’s 2022-2023 season will consist of 22 matches beginning on Wednesday, October 5, 2022. Matches will be held on Wednesday nights and the season will end on March 15, 2023, or on a date after that should we need to postpone and reschedule any matches.

This year we will host 22 matches instead of the typical 20 matches to align with the Worcester Country Pistol League (WCPL). All matches will be held at Riverside Gun Club. All shooters must be members in good standing of Riverside Gun Club. Participation in the WCPL is voluntary and requires no extra matches, travel, or effort.

An awards banquet will be held on the Wednesday following completion of the last match.

**Note** that the season’s schedule and rules may be updated during the season due to COVID.

### 2022 – 2023 SEASON RULES:

**START TIME:** The match will begin at 6:30 PM. Anyone who shows up before 7:00 or prior to the completion of the last relay will be allowed to shoot. The match may start earlier than 6:30 if a full line is present.

We will shoot as many relays at each session as required for all shooters to participate. The shooter will sign in prior to shooting his/her relay. The shooter will put his/her name on the back-bottom-center of each target prior to shooting. Timed and rapid-fire targets must be individually

identified. A previously missed match may also be made up.

2022 - 2023 Season			
MATCH	DATE	MATCH	DATE
1	10/5/2022	12	1/4/2023
2	10/12/2022	13	1/11/2023
3	10/19/2022	14	1/18/2023
4	10/26/2022	15	1/25/2023
5	11/2/2022	16	2/1/2023
6	11/9/2022	17	2/8/2023
7	11/16/2022	18	2/15/2023
8	11/30/2022	19	2/22/2023
9	12/7/2022	20	3/1/2023
10	12/14/2022	21	3/8/2023
11	12/28/2022	22	3/15/2023

**MAKEUPS:** Makeups will be allowed for shooters who have missed one or more matches. Makeup rounds will occur after everyone has shot the scheduled round for the day. Shooters waiting will have priority over those doing makeups. If it means tearing down your setup and setting up again, so be it. If you know that you’re going to do a makeup, it may be expedient to wait until the last relay before you shoot your scheduled match.

**SCORING:** The scoring and recording of targets will take place in the range anteroom after the completion of shooting. Each target will be scored by one person and again by another. The second scorer is not there to check the arithmetic of the first scorer. The targets will be scored independently by two persons. Any disagreement on the value of a shot will be resolved by a team co-captain whose decision is final. No further appeals are allowed. If the co-captain is not present, the team coach will make the final decision. Use the “plug” only as a last resort. A target hole may not be plugged twice.

Tom’s BullseyeMatch app for Android and iOS has a scoring segment which should improve the accuracy of the scoring since it checks for some of the most common errors. If you have it on your portable device, please use it. A shooter has the right to challenge the scorer. However, this challenge must be made prior to closing the match. Once the match is closed, no challenges will be accepted. The score for record will be the sum of the individual targets regardless of the total entered on the tally sheet.

**WARM-UPS:** Many of you have expressed a desire to take a few warm-up shots before shooting the match. A warm-up period of 10 minutes will be scheduled prior to the relay. The period will start when the last shooter is in place and will end when all shooters declare they are ready but no more than ten minutes. The warm-up period includes the time to set up.

**AWARDS:** Awards will be given for the following categories:

- ◆ *Top Shooter - To be eligible, the shooter must participate in at least half plus one of the scheduled matches.*
- ◆ *Most Improved Shooter: This will be awarded to the shooter with the largest point increase in his/her average over two consecutive seasons. To be eligible, the shooter must have participated in at least half plus one of the matches from the 2021-2022 season and half plus one of the matches in the current season.*

**Team Award:** A framed certificate will be posted with the names and averages of the top five shooters. To be eligible,



## RIVERSIDE PISTOL TEAM

each shooter must participate in at least half plus one (11) of the scheduled matches.

**ALIBIS:** If you have a gun or ammunition malfunction during timed or rapid fire, you MAY request an alibi. The shooter must put the gun down on the table with the action facing up. Any attempt to clear a malfunction while the string is still active invalidates the request for an alibi. The range officer will examine the gun to verify the malfunction and will determine how many shots have already been fired. If the alibi is allowed, the shooter will repeat five shots after that portion of the relay and the best shots equivalent to the alibi will be discounted from the score. Alibis will not be allowed for carelessness such as an improperly seated or improperly loaded magazine. A shooter is allowed one alibi per match.

**DNF (Did not Finish):** A DNF is allowed when a shooter's equipment becomes erratic (usually after two alibis) or for any valid reason that the shooter is no longer able to continue. Having a bad night with a low score is not justification for a DNF. The DNF will be noted in the records but will not count when determining a shooter's average. A DNF round is not eligible for makeup. If, after the start buzzer for slow fire, you decide that you don't want to shoot, place your pistol on the table with magazine removed and action open. Then step behind the yellow line. This will be treated as if you didn't show up. Once you take the first shot in slow fire, you're committed to complete the relay.

**EARLY AND LATE SHOTS:** If you shoot prior to the buzzer, you will be penalized by having your best shot discounted from your score. Unfortunately, an early shot often encourages other shooters to shoot early also. If you shoot early, you will be penalized as described. However, if you feel that hearing someone else's early shot has disrupted your concentration or inhibited your ability to hear the buzzer, you may choose not to shoot that string. You will be allowed to take your five shots without penalty after the second string. Once you take a shot, you are committed to finishing the string. A shot taken after the stop buzzer will be similarly penalized. Traditionally, a shot taken during the sounding of the stop buzzer has been allowed. The tone that has been previously used has a duration of one second. This effectively adds one second to the string time. This season, the start/stop signal will be only about 300 milliseconds.

**COURTESY:** When you have finished with the slow fire portion of the relay, place your guns on the table with magazines out and the action open. Step behind the yellow line and as a courtesy to those who are still shooting, please do not engage in conversation with your fellow shooters. Whether or not you use your allotted ten minutes is entirely up to you. Those who choose to use more of their allotted time are entitled to do so without the distraction of conversations behind them. Before entering the range, please turn off your cell phones or leave them in the anteroom. A ringing cell phone is a

distraction to the shooters.

**CEASE FIRE:** Anyone may call a cease fire if an unsafe or dangerous condition is observed. Upon hearing the call, do not try to find out what's going on. Each shooter shall stop shooting immediately, remove your magazine and clear the chamber. Place your guns on the table showing the open action. The range officer will investigate the call and take remedial action as necessary.

Prior to the first match of the season (scheduled for October 5th) a safety briefing will be held hosted by Bill McDonough. This will take place at 6:00 PM in one of the club's available conference rooms.

Since we all live in lovely, sub-tropical New England, there may be times during the Winter when that white stuff hinders our ability to get to the range. A decision on either postponing or holding a match due to inclement weather will be made by noon of the day of the match. A message notifying the team will be sent out to all team members immediately upon the decision. The primary and default method of communicating the match status will be by email. If you do not or cannot receive emails during the day, you are responsible for providing the Captain and Coach with an alternate method of contact, which can be either text message or phone call. Please make this preference known at the start of the season. It is your responsibility to be able to receive a message in the communication method of your choice and only one attempt to notify you will be made.

# MAXIMUM POINT-BLANK RANGE SIGHTING IN YOUR HUNTING RIFLE

W. Minot Wood

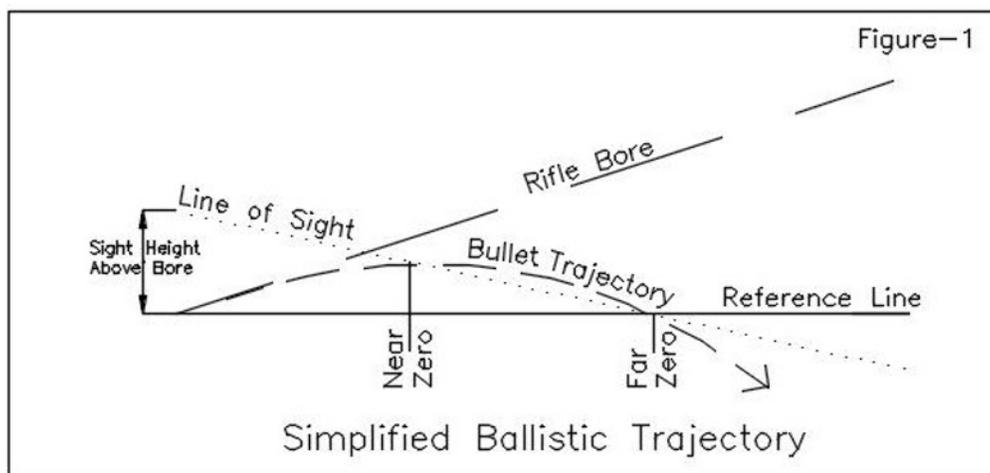
It would be an ideal world if every single time you went on your hunting adventure you knew exactly how far you would be shooting towards that buck that you are trying to bag so that your rifle would be zeroed in correctly. But if you ask five different hunters about sighting in their deer rifle before hunting season you may get 6 different theories on the best way to accomplish the task. Understanding what the “Maximum Point-Blank Range” [MPBR] is, as it concerns rifle ballistics, may be very helpful to you.

I stumbled upon this time proven old sighting method years ago while zeroing in a Romanian WASR 10 that I paid about \$300 for NIB [new in the box] which gives you an idea of how long ago that was. This method has served me well over time.

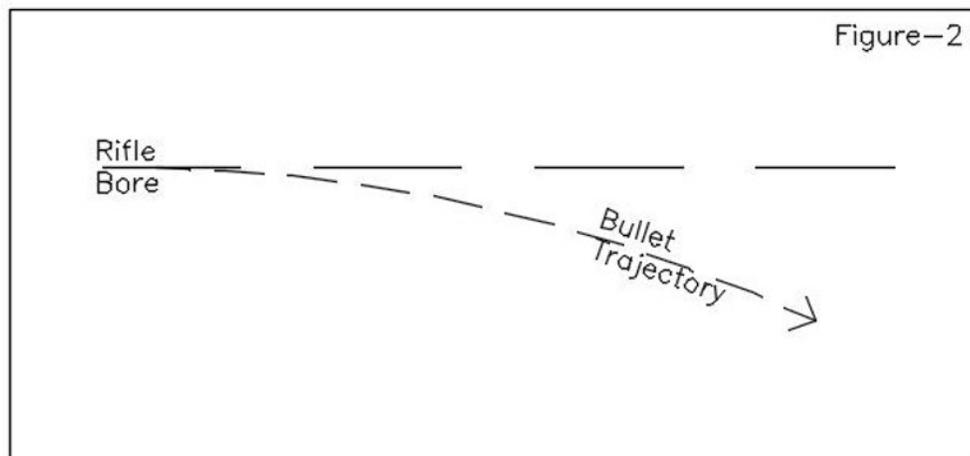
MPBR is the maximum range at which you can hit a target, of a certain size, with a certain cartridge, without adjusting your point of aim to try and compensate for anticipated change in bullet placement due to varying, estimated, distances. Determine the size of the vital area that you want to hit, determine the MPBR for the ammunition that you will use, sight the rifle in at the rifle range and you should be good to go.

There are three types of ballistics that concern firearms, they are internal, external, and terminal. Today we are considering external ballistics that occur from the time that the bullet leaves the barrel until arrives at the target.

Other terms that we need to know are Near Zero and Far Zero. These are the two distances at which the bullets path intersects the line of sight, Near Zero being when the bullet crosses the line of sight on its way up and Far Zero when it's on its way down as shown in Figure-1.



But why does the bullets path intersect the line of sight twice? If the barrel of the rifle was horizontal the projectile trajectory would look something like this in Figure-2.

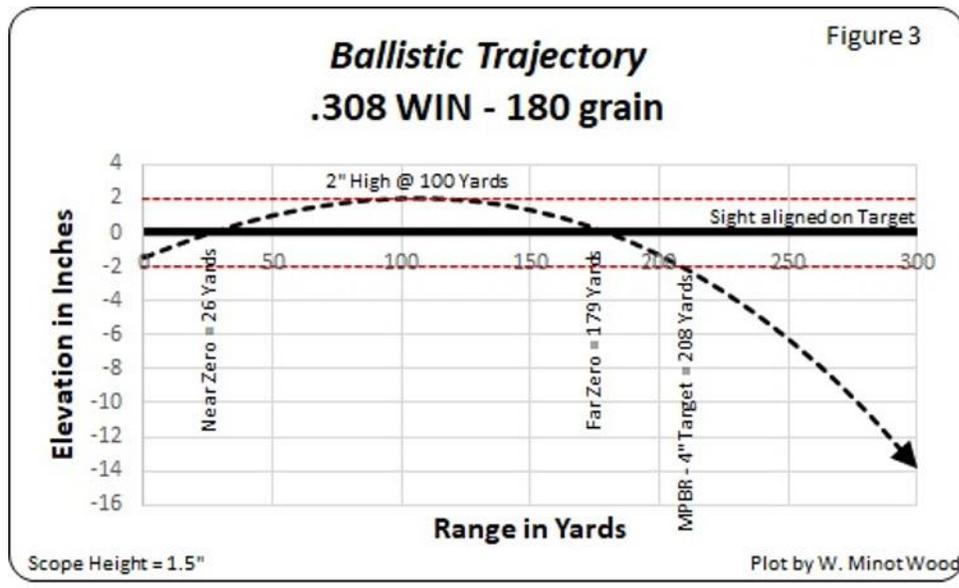


## MAXIMUM POINT-BLANK RANGE/SIGHTING IN YOUR HUNTING RIFLE

The trajectory in Figure-2 is caused by the effect of gravity. Gravity affects everything on Earth including acorns and bullets. As soon as the bullet exits the bore of the rifle gravity begins to pull on it and the bullet begins to fall or drop towards the Earth. To compensate for this factor the scope or sights on a rifle are angled down slightly from the axis of the barrel so that when the sights are on target, the barrel is pointed slightly upward. With the barrel pointed upward, as in Figure-1, the bullet exits at a slight upward angle hitting the Near Zero and soon after falls enough hitting the Far Zero. Although hard to visualize externally on a rifle scope, picture iron sights on your rifle and you will see that the rear sight is set higher off the barrel than the front sight is thus angling the barrel of the rifle upward when your sight picture is on target.

Not to confuse this issue, but to be clear from a scientific perspective, the bullet begins to fall in both cases, Figure-1 and Figure-2, as soon as it exits the muzzle even though it appears to be ‘rising’ in Figure-1. It IS climbing upward since we have aligned the sights downward to point the barrel upward, but due to air resistance and gravity it starts to drop as soon as it exits the muzzle.

For this exercise we will consider the Remington Core-Lokt .308 WIN ammunition with the following characteristics. Caliber .308 Winchester, Bullet Weight 180 grain, Muzzle Velocity 2620 feet per second, typical Ballistic Coefficient 0.248. We will also assume that we are trying to hit a 4” target.



In Figure-3 I have plotted the trajectory of this cartridge as it relates to a 4-inch target. The two horizontal red dashed lines represent the 4-inch target zone. As can be seen the Near Zero occurs at 26 yards and the Far Zero is at 179 yards. Those are the two times that the bullet crosses the line of sight. Additionally, at 100 yards the bullet is 2” high and at 208 yards the bullet is 2” low. Therefore, if we are shooting at a 4-inch target our Maximum Point-Blank Range is 208 yards, any further distant and we will hit below the target and miss the vital zone.

So that’s it, right. You set your target up at 179 Yards and adjust your sights to hit the bullseye thereby being zeroed at 179 yards? But wait, there’s more. There’s an easier way to accomplish this, even if you do have access to a 200-yard range. Referring to Figure-3, we can see that at a range of 100 yards our shot will be 2” high. Therefore, we can set the target up at 100 yards, adjust the sights so that when aiming at the bullseye our shot placement is centered horizontally but 2” vertically above the bullseye. Once this is done our rifle, with this ammunition, will have a maximum point-blank range of 208 yards meaning that shooting at any distance from 0 yards to 208 yards will hit a 4” target without having to mentally adjust our sight picture up or down to compensate for distance. Just aim your sights at the ‘bullseye’, the center of the vital zone, and you’re all set up to 208 yards.

Different sized targets will produce different MPBR’s for the same ammunition which I have calculated and show here in Table-1, but remember these results are ammunition specific and the results shown here are for this one type of cartridge.

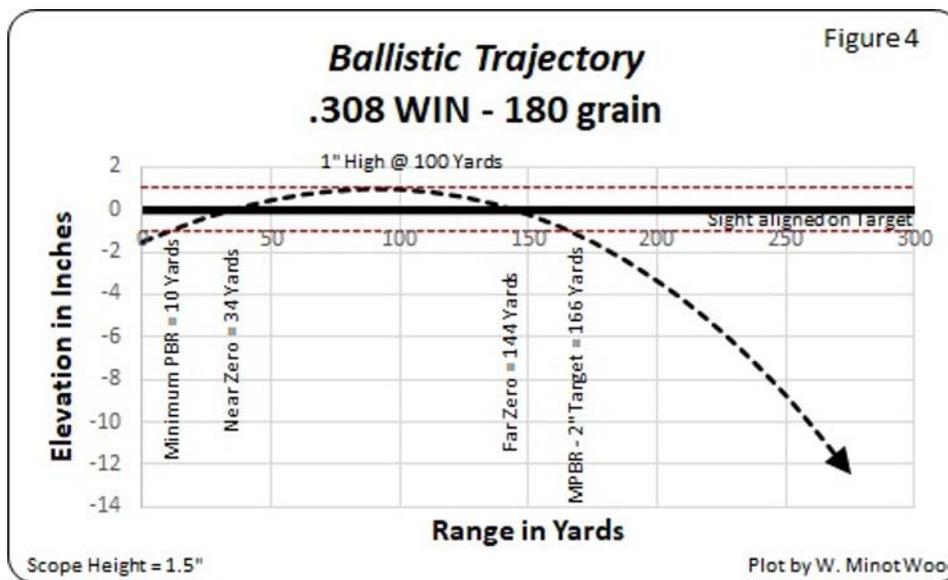
**MAXIMUM POINT-BLANK RANGE/SIGHTING IN YOUR HUNTING RIFLE**

**Table 1**

Remington Core-Lokt 308 WIN 180 grain					
Target Size	Near Zero (yds)	Far Zero (yds)	Maximum Point-Blank Range (yds)	Minimum Point-Blank Range (yds)	Bullet Impact At 100 Yards
2"	34	144	166	10	1.0" High
4"	26	179	208	0	2.0" High
6"	22	206	240	0	2.9" High
8"	20	229	267	0	3.7" High
10"	18	248	289	0	4.4" High
12"	16	265	309	0	5.1" High

You can use the column "Bullet Impact At 100 Yards" to adjust your sights on a target at the 100-yard rifle range. Looking at Table-1, for a 10" target, perhaps the deer vital zone, zero your rifle 4.4 inches high at 100 yards. Then for any distance from zero to 289 yards, aiming for the center of the vital zone, you will hit it. No guess work estimating distances and trying to compensate, holding over the 'bullseye' anticipating bullet drop. Notice that the larger your target/vital zone is then the longer your maximum range is.

Also worth noting is that sometimes, as is the case with the two-inch target, the Minimum range may be greater than zero. Here we see that the minimum range is 10 yards. If, after we zero our rifle for MPBR and a two-inch target, we aim for the center of the two-inch target closer than 10 yards we will miss, the bullet will pass below the target as seen in Figure-4. From zero yards to ten 10 yards, the bullets position is below the 2-inch target.



In Figure-4 I have plotted the trajectory of this cartridge as it relates to a 2-inch target. The two horizontal red dashed lines represent the 2-inch target zone. As can be seen the Near Zero occurs at 34 yards and the Far Zero is at 144 yards. Those are the two times that the bullet crosses the line of sight. Additionally, at 100 yards the bullet is 1" high and at 166 yards the bullet is 1" low. Therefore, if we are shooting at a 2-inch target our Maximum Point-Blank Range is 166 yards, any further distant and we will hit below the target and miss the vital zone.

When zeroing your rifle, the longer the target distance the better, I believe. But, in a pinch and if you are in a hurry or have limited rifle range distance this method can be used at shorter distances. I have used this method with many rifles including the WASR 10 that I mentioned earlier, I did the MPBR and trajectory calculations for the Wolf 123 grain 7.62 x 39 ammo and sighted it in at 30 yards and the results at 100 yards were as expected.

## MAXIMUM POINT-BLANK RANGE/SIGHTING IN YOUR HUNTING RIFLE

Lastly, if you have obtained new rifle or installed new sights or a new rifle scope, in today's world a laser bore sighter is relatively inexpensive and a great tool. With a laser bore sighter you can do the rough zeroing in your basement at close range and be "on paper" with your first shots at the rifle range.

This is the way that I understand Maximum Point-Blank Range but if you have your own rifle sighting method that works better for you, continue with that practice. Of course, this is all theoretical 'shooting on paper' and there are additional factors to consider such as barrel length that will affect the muzzle velocity, atmospheric pressure, wind velocity and direction, etc. So, in closing, we must follow-up this maximum point-blank range sighting-in method with some quality shooting time at the range with our fellow shooters to ensure that we hit what we are aiming at. Best of luck and skill in this upcoming hunting season.

*W. Minot Wood is an avid outdoorsman, firearms enthusiast, Lifetime member of the NRA, member of GOAL and a member of the Riverside Gun Club.*



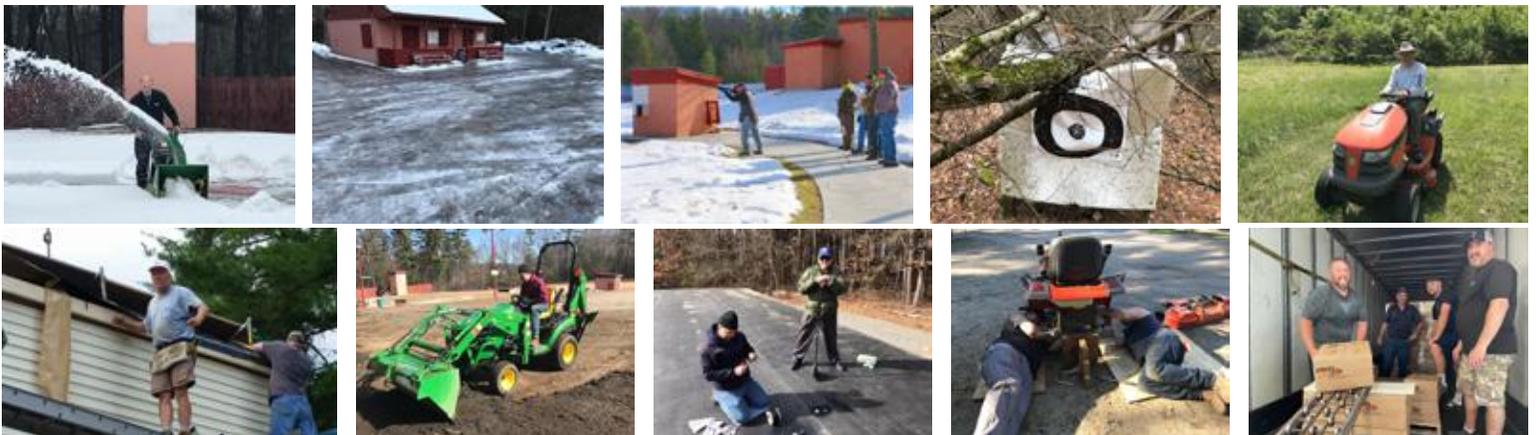
## SUPPORT THE ORGANIZATION THAT SUPPORTS YOU.

Every organization needs to develop managers and they do so with people inside the organization. Without member interest the organization deteriorates. Just look back Riverside's history a few decades in the past – the club deteriorated, but through active participation, it vastly improved and we want it to stay that way. Participation has become more important as ever at Riverside. It's important that you attend the October 17th General membership meeting for the nomination of officers and executive board members.

For those who consider running for an office, review the rules for the election that are posted on the club bulletin board and the club website. You must submit your nomination in writing prior to the October general membership meeting where the nominating chairperson will present the nominees. You must be present at the October general membership meeting to accept the nomination.

Mark election day, Dec 18th on your calendar...The Executive Board and Club Officer election is the same day as the Kids Christmas Party this year. We will have a complimentary buffet, so plan to make a day of it.

*Mike Connelley*





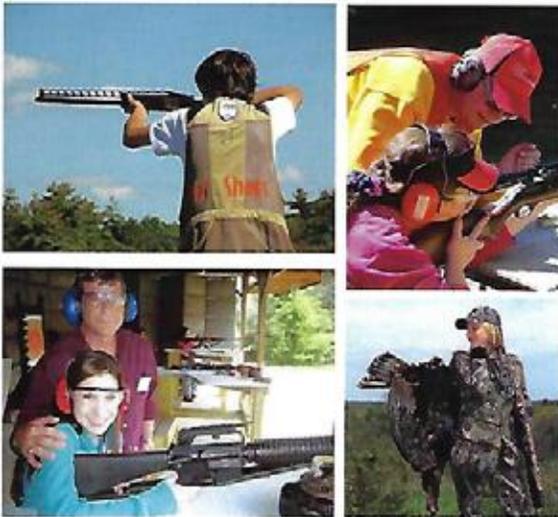
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*Is to preserve your heritage*

Gun Owners' Action League was formed in 1974 to protect the right to keep and bear arms for lawful purposes in Massachusetts. We are a grass-roots organization of law-abiding citizens who are working to protect our rights and our shooting sports heritage.

Whether you choose to lawfully own a firearm for recreation, self-defense, hunting, competition, collecting, or any other lawful reason, GOAL is working to restore and defend our rights and heritage in the Commonwealth of Massachusetts.

Please join the thousands of other lawful gun owners who have made the commitment to restoring and protecting what is rightfully ours. Your membership could make the difference in how the future looks for lawful gun owners! Thank You.



**Gun Owners' Action League**



Post Office Box 567  
 Northboro, MA 01532  
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Gun Owners' Action League 508-393-5333

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New  Former  Renewal: ID # \_\_\_\_\_

<b>Junior (under 21)</b>	<input type="checkbox"/> 1 year	\$15
Junior Date of Birth (Required): _____		
<b>Individual</b>	<input type="checkbox"/> 1 year	\$30
	<input type="checkbox"/> 3 year	\$75
	<input type="checkbox"/> 5 year	\$125
<b>Family</b>	<input type="checkbox"/> 1 year	\$35
	<input type="checkbox"/> 3 year	\$95
	<input type="checkbox"/> 5 year	\$150
List family members: _____ _____ _____		
<b>Life</b>	<input type="checkbox"/> Sustaining	\$750
	<input type="checkbox"/> Benefactor	\$1,500
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