

.308 TR Scorecards

The aim of this presentation is for you to understand how a scorecard works and what information it records.

Elevation and windage recording chart

Using the rifle's zero distance and an elevation table set the sights. Record the elevation setting in minutes here.

If the elevation setting is changed the new number is recorded next to the shot number.

The **Call** column is used to write down the score the shooter thinks he/she got before the target is marked. If the shots are called accurately the shooter can be confident that it is external changes that are causing the bullets to drift throughout a match and adjust. Adjustments are only made on bullets that the shooter is confident in.

To fill in the column put one of the following letters in the box in the same row as the shot:

- V – V Ball
- 5
- 4
- 3
- 2
- 1

Shot	Elev	Wind		Call	Score
		Left	Right		
A	3	←	2	X	3
B					
1					
2					
3					
4					
5	2 ½				
6		←	1 ½		
7					
8					
9					
10					
11					
12					
13					
14					
15					
Score					

The shooter looks at the wind flags and uses the wind flag chart to read off the windage in minutes of angle. If the wind is blowing from the left to the right the bullet will be moved to the right. The sights will have to be moved left to correct this. Corrections to the left are put in the left hand column. If the wind is blowing from the right to the left the bullet will be moved to the left. The sights will have to be moved right to correct this. Corrections to the right are put in the right hand column. The corrections are then put on the sights.

The windage is recorded here. The centre circle is used to show direction of the wind. Changes in the windage setting are recorded next to the shot number.

The **score** column is used to write the actual score in (as indicated by the spotting disk etc). It should be very close if not the same as the call score.

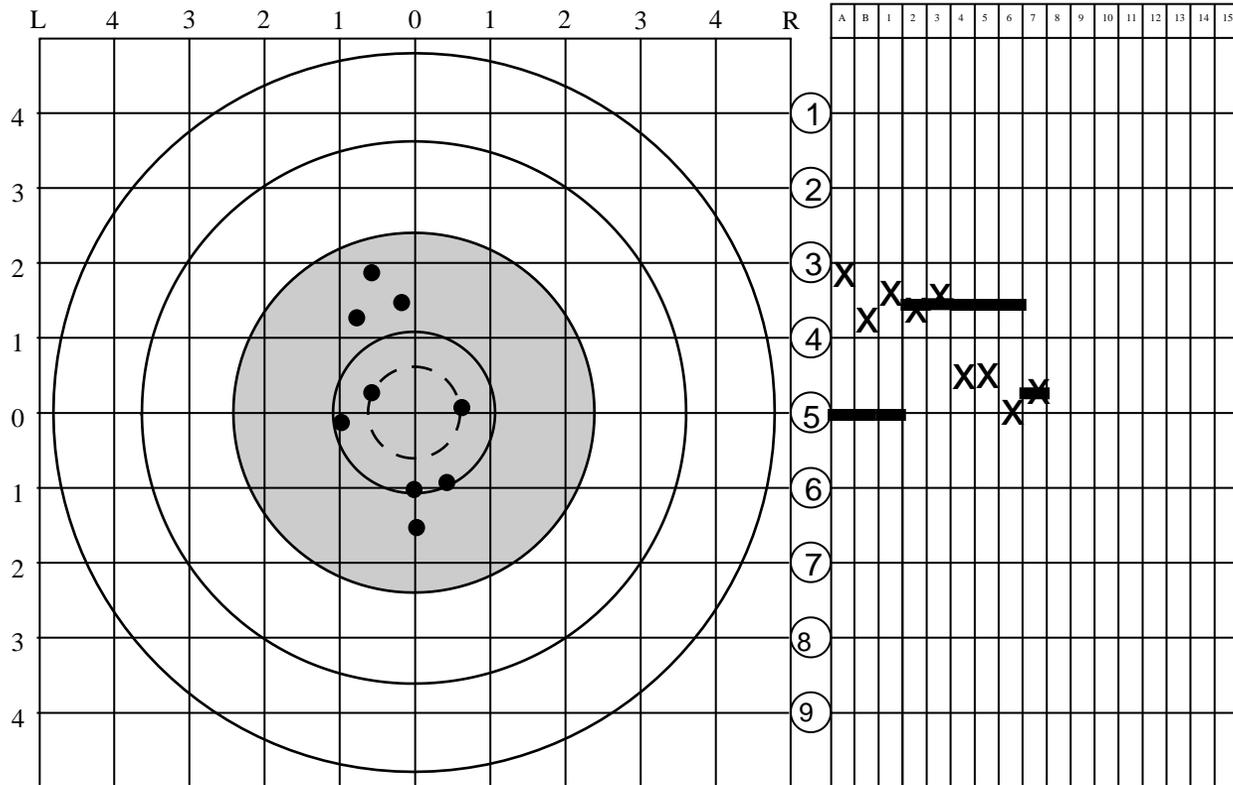
How to work out the true elevation and adjust the sights accordingly - cont

To recap on the last page, here is a further example. Sights are set to 5 minutes of angle above the rifle's zero.

Bullet holes are approx $1\frac{1}{2}$ minutes above the zero line, adjust sights $1\frac{1}{2}$ minutes lower to $3\frac{1}{2}$ minutes of angle above the rifle's zero.

Bullet holes are again wandering away from the point of aim. Time to re-adjust the sights - this time by moving the sights up by $1\frac{1}{4}$ minutes of angle to $4\frac{3}{4}$ minutes above the rifle's zero.

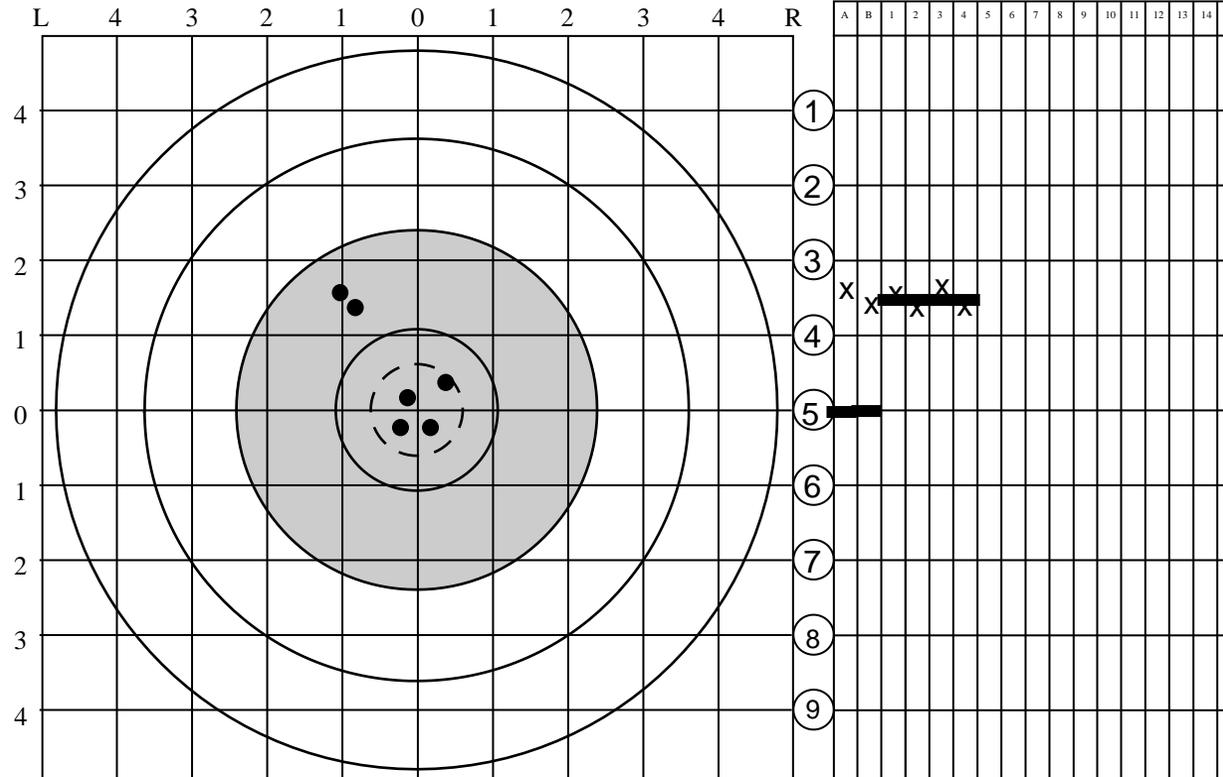
This example has exaggerated the amount of sight adjustment. The amount of movement may only be $\frac{1}{2}$ or $\frac{1}{4}$ of a minute of angle at a time. Depending on confidence of the shooter in his/her ability the sights may be adjusted after only one or two shots.



What it looks like all together

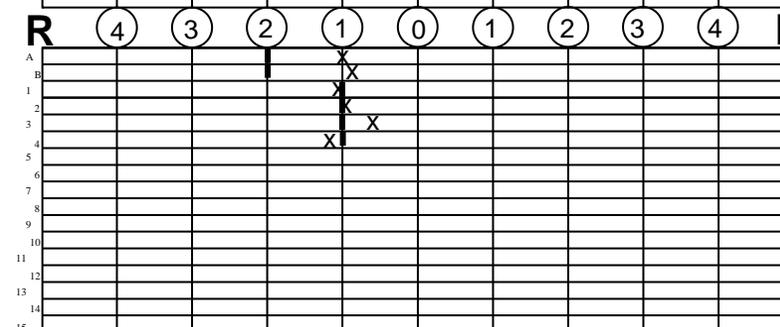
Estimated elevation 5 minutes up from the rifle's zero, estimated crosswind 2 minutes blowing from the right to the left.

Shot	Elev	Wind		Call	Score
		Left	Right		
A	5	2	←		
B					
1	3.5	1	←		
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Score					



The score card is now ready for the sighting shots.

The holes are about 1½ minutes high and 1 minute left of centre. Now look at the charts and read off the true windage and true elevation.



The windage reads approx 1 minute left and the elevation reads approx 3½ minutes up. Record this on the chart on the left and adjust the sights. Note: It is usual to adjust the elevation or windage separately.

To sum up

To use a score card successfully the shooter needs to practice, practice, practice. Until the shooter can group his/her shots then he/she cannot rely on them to show movement away from the point of aim. The smaller the group the quicker trends will become apparent. When the shooter is ruled out of the equation then other factors can be anticipated and allowed for, thus shot correction becomes proactive instead of reactive.

The elevation setting on the rifle can and will need to be changed with variations in ambient temperature, firearm temperature, air pressure, wet rounds, moisture in the air and light conditions. This can happen very quickly, but try to anticipate change rather than follow it. It is important for the shooter to move as little as possible between shots and to keep everything else the same. Stick to a routine as even a small difference can mean an inner instead of a bull at 1000 Yards.

Reading the wind is a bit of a black art, eye of newt, ear of bat etc. When shooting on a range with wind flags you will have noticed that flags at the same distance rarely show the same wind speed; this is also true when looking at flags at different distances. Wind conditions can even vary from firing point to firing point.

The shooter will use all his/her experience to look at the wind flags, trees, grass, mirage, etc and make his/her best estimate. Shooting teams often have one person appointed as a wind coach for the team. Practice will help, failing that consult your local witches supply store for some different ingredients.