



RULES

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Definitions

Basic position (Freestyle) – a shooting position whereby the shot is taken from the sitting or prone position. No part of the rifle or any attachment may touch the ground or any object for support. In the prone position the supporting arm forward of the elbow may not touch the ground or any object for support.

Committee – The executive committee of SAFTAA.

Hamster – A support that is affixed to the underside of the rifle stock and rests on the shooter's hand or knee, depending on the shooting position.

Kneeling – A shooting position where there shall be only 3 points of contact with the ground (2 feet and 1 knee). The rear foot shall be upright and straight in line with the knee. A legal seat may be used to support the rear foot and/or ankle only. The rear foot must be visible to the marshal at all times. The leading hand will support the rifle and from the wrist forward be unsupported by the knee. A single rifle sling and/or butt hook may be used to steady the aim. Kneeling rolls may be used. Kneeling rolls must be round with a maximum diameter of 180mm. The length of the roll is unlimited.

PCP – pre-charged pneumatic air rifle.

Single rifle sling – a sling used to carry the rifle or as a means of steadying the aim. Such a sling shall be attached to the rifle at a minimum of one and maximum of two points when a shot is taken. The sling may be unclipped from the rifle when not in use.

Springer – air rifle in which power is generated by a large spring/gas ram and piston.

Standing – a shooting position where the shot is taken in a standing position without the aid of any support, but a single rifle sling and/or butt hook may be used to steady the aim.

Technical Officer – The technical officer of SAFTAA.

Worlds – the annual World Field Target Championships hosted under the auspices of the WFTF.

1 Equipment

- 1.1 **Airguns.** Air rifles (PCP or Springer) of 5.5mm calibre or less with an output not exceeding 12 ft/lbs (16.3 Joule), and which are in safe working condition may be used. No power adjustments may be made to an air rifle during a competition. Fully adjustable rifle stocks are permitted to accommodate various shooting styles and positions.
- 1.2 **Ammunition.** Any design of pellet that is completely made of lead, lead alloy, zinc or zinc alloy, or a similar material may be used.
- 1.3 **Sights.** Any form of sighting system may be used with the exception of laser sights. No built-in or separate laser range finding device may be used.
- 1.4 **Rifle accessories allowed.**
- A single rifle sling - no additional straps are allowed
 - A fixed or adjustable palm-shelf (hamster)
 - Butt hook
 - Spirit level
 - Sunshade on scope
 - Scope enhancer (rubber)
 - Thermometer
 - Wind indicator (non-electronic)
 - Inclinometer
 - Bipod (for U10 SFT shooters, or to support the rifle while not in use)
 - Rail, barrel and butt-stock weights
 - Close-focus adapters
 - Silencers and air strippers

To assist shooters in reading the wind, the available options are:

- a) Wind indicator (string or similar) attached to the rifle
- b) Target string (reset cord)

No additional equipment, electronic or other, may be used to assist the shooter in evaluating the wind or other weather conditions.

- 1.5 **Clothing.** Any type of clothing, glove or footwear is allowed provided it is not a hazard to the shooter or others. Clothing may be padded to reduce the pressure of the rifle stock resting on the arm or knee. Separate pads may be worn over non-padded clothing. Gloves may not contain any rigid material extending beyond the wrist.

- 1.6 **Seating.** The maximum height for any form of seating is 150 mm (6") when flattened between 2 boards. The seat may only be used as an aid in sitting or kneeling shots.
- 1.7 **Targets.** Metal silhouette "fall when hit" targets resettable from the firing point shall be used. The hit zones shall be circular and the use of simulated hit zones on any other part of the faceplate is prohibited. Standard hit zones shall be 40 mm in diameter. A limited number of targets may be fitted with reduced diameter hit zones of 15 mm or 25 mm. These reducers shall be fixed to the side of the target facing the shooter.

2 Shooting Range

- 2.1 **Course.** A course shall consist of 50 targets divided into lanes of 2 or 3 targets per lane. This will not preclude targets/ lanes from being used more than once during a match to arrive at the required 50 targets
- 2.2 **Target placement and numbering.** Targets shall be placed at distances of between 9 meters and 50 meters from the firing line. All lanes shall be clearly numbered. Targets may be placed at higher or lower elevation to the firing line, but must at all times be fully visible from all shooting positions and face the shooter at a 90° angle (plus or minus 5 on the horizontal level). Targets may not be placed at more than 30° above or below the shooting line. The shooting position shall be smooth.
- 2.3 **Targets will have faceplates,** and any reducer if present, light in colour and hit zones black in colour.
- 2.4 **Positional targets.** The basic/free shooting position is sitting/prone, but some lanes may be designated as 'standing' or 'kneeling'. The total number of targets designated as standing or kneeling may not exceed 20% of the total number of targets on that particular course, and these positional targets should be divided as equally as possible, e.g. 3 standing and 2 kneeling lanes or vice versa. The maximum distance that positional targets may be placed at is 40 meters. A clear sign at the firing line shall indicate kneeling or standing lanes. Shooters may choose to shoot 'kneeling' targets from the standing position.

- 2.5 **Reduced diameter hit zones.** The total number of targets with reduced diameter hit zones may not exceed 25% of the total targets on that particular course. Maximum distance limitations for such targets are as follows:

Reducer size	Non-positional targets	Positional targets
15mm	20 meters	Not allowed
25mm	35 meters	20 meters
40mm	50 meters	40 meters

- 2.6 **Practice/sighting in range.** A safe practice area shall be provided for the competitors at least one hour before the event. The practice area should be in close proximity to the competition range. Multiple paper targets should be placed at the different competition distances (between 9 and 50 meters). A marshal shall be present whenever this range is open for practice. All the normal range safety rules will apply.
- 2.7 **Shooting line.** The shooting line/position is indicated by a clear line on the ground, two posts between which competitors must shoot from, or other suitable identifying device. When shooting, the barrel of a rifle may be in front of this line, but the trigger must remain behind it. Distances to the targets must be measured from a fixed point that is apparent at the shooting line.
- 2.8 **Replacement targets.** At least 2 replacement targets, with a full set of reducers each, shall be available at the start of the match to replace any target found to be defective.

3 Safety

As is the case in all shooting sports, safety on the range is of the utmost importance.

- 3.1 No rifle may at any time be pointed in the direction of people or animals.
- 3.2 Except whilst shooting, no rifle may be loaded. Rifles must face down range whilst being loaded.
- 3.3 When a ceasefire is signalled (one whistle/horn) and a rifle is loaded, the shot must be discharged into the ground in front of the shooter.
- 3.4 When carrying a rifle, it should be pointed up or down, unless in a closed case or bag. If carried in an open rifle carrier, the cocking lever/bolt shall at all times be in the open position.

- 3.5 No non-participants are allowed on the shooting line.
- 3.6 No children or pets are allowed on ranges during a competition, unless accompanied by and under control of a responsible adult.
- 3.7 No alcohol, substance with a narcotic effect or substance on the prohibited list of the World Anti-Doping Agency may be consumed before or during a day's competition until the last shot has been fired.

4 Administration

- 4.1 Classes of entry for Field Target shooting are as follows:
- Under 10 (not yet 10 on 1st of January) making use of a bipod or other means to stabilize their aim. SFT only.
 - Under 14 (not yet 14 on 1st of January);
 - Junior (not yet 17 on 1st of January);
 - Senior Ladies;
 - Senior Men;
 - Veteran (60 years or older on 1st of January).
- 4.2 No person will be allowed entry to a match without a completed and signed indemnity form. In respect of a minor such indemnity must be completed and signed by a parent or legal guardian, and be accompanied by a consent form by the said parent or legal guardian.
- 4.3 Entries to league competitions will close 30 minutes before the event. No person will be allowed to enter the event after the start, unless by prior arrangement with the organizers.
- 4.4 Grouping of shooters for a match is in the discretion of the hosting club. At the National Trials or a Provincial Championship, shooters shall be grouped according to log ranking for the first match and accumulated score thereafter. Where multiple courses are used, each shooter must shoot every course at least once. Score cards indicating the shooters' names and starting lane, timers / stopwatches and pens must be prepared (per shooting lane) and handed to all participants before each match commences.
- 4.5 A Range Officer and a sufficient number of marshals shall be appointed. All marshals shall be well versed in shooting safety, FT rules and especially the understanding and handling of field target failures. There must be enough marshals to cover the complete range within view of

each other, and they shall be supplied with identifying vests, effective two-way communication equipment and whistles/horns.

- 4.6 Competitors that cannot, for whatever physical or medical reason, comply with a particular shooting position, shall inform the Range Officer before commencement of a match, and obtain permission to use an alternative position or aid, providing that no unfair advantage is gained. All marshals shall be made aware of such arrangement.
- 4.7 Competitors in the under 14 and under 10 age groups must at all times be accompanied by a parent, legal guardian or other responsible adult, during any visit to the practice range and for the duration of the match.
- 4.8 A copy of these Rules shall be kept on the range during matches, accessible to all present.

5 Competition

- 5.1 All rifles may be chronographed before and/or during a match. All tests will be done with the pellets to be used during the match. The distance between the end of the barrel and the chronograph shall not exceed 30cm. A marshal may inspect each pellet, ensuring that it is not deformed or damaged. A minimum of one and maximum of 3 registering shots will be allowed over the chronograph. If the first shot fired is deemed to be legal, no further testing is required; if the first shot fired is deemed to be illegal then another 2 shots must be fired both of which must be legal in order to pass the test. No power adjustments to a rifle are allowed after the start of the match.
Any rifle that exceeds 12 ft/lbs will not be allowed in the match. A rifle may be adjusted and re-tested before the match starts. Any failure at a test during the match shall lead to disqualification.
- 5.2 A match starts/course re-opens with the sounding of two whistles/horns. The course is then open and safe for shooting to commence/continue. If the course is re-opened after a closure, any timers that had been stopped will be reset as follows:
 - 1 minute granted for preparation
 - 1 additional minute for each target at which no shot has yet been fired
- 5.3 Competitors are allowed one minute for preparation plus one minute per target on a lane. Timing starts when the competitor sits down/kneels or brings the scope to his/her eye for ranging in the standing position. Any hit obtained after expiration of the allotted time will be forfeited.

- 5.4 If timers are being used it is the duty of the scorer to monitor that time is being kept. If stopwatches are used it is the duty of the scorer to keep time. Failure to monitor or keep time will result in a warning to both shooter and scorer; such a warning will be recorded on the score cards.
- 5.5 A score is indicated on the score card by an "X" for a knock down or a "0" if the target remains standing. SFT shooters score a knocked down target as a "2", a faceplate hit as a "1", and a total miss as a "0". Only shooters grouped together on a lane or a marshal may handle score cards. Any changes to a score card shall be counter signed by a marshal.
- 5.6 A shot is deemed to have been fired if air is discharged from a rifle. A shooter may however fire a shot into the ground after declaring this to his/her lane partner(s).
- 5.7 Targets are addressed in number sequence or, left to right if no target numbers are present. If an incorrect target was shot at, the shooter scores a "0" and carries on with the following target on his/her score card.
- 5.8 A course (or section thereof) is closed when a single whistle/horn is sounded. All timers are immediately stopped and any loaded rifles are discharged into the ground in front of the shooters. Each squad shall indicate to the marshals that their rifles are safe by raising their hands. No participant may move towards a target (unless requested by a marshal to do so), range-find a target, or do any other preparation until the course is re-opened.
- 5.9 Any disputed score must be challenged immediately after a shot is fired. Under no circumstances should the competitor touch the reset cord until the dispute has been resolved. Targets should be checked by the range officer whose decision is final. Checking of targets must involve a visual check and, if necessary, use of the official WFTF target checking device.

Visual checks:

- a) Make sure the shooter hasn't touched the reset string.
- b) Check that the reset string isn't stuck or in tension preventing the target from falling.
- c) Check that the target inclination is appropriate.
- d) Check that there isn't anything in the target surroundings that prevents the target from work correctly (bush, tree, branch etc.).
- e) If the dispute is at the beginning of a session, validate splits;

After passing all of the visual checks, the target will be tested at least 3 times in different kill zone target areas (i.e. top, middle and bottom) using the Official WFTF target checking device by the range officer.

Any target found to be defective should be repaired or replaced immediately and may be re-shot by only the shooter who had challenged the shot.

An administrative fee of R50 will be charged in respect of any disputed target found to be in order. The R50 must either be paid to the Range Officer at the time of query, or paid to the club when handing in score cards.

5.10 Competitors may only leave the firing line under the following circumstances:

- Voluntary abandonment of the shoot, in which case the score up to that point will be accepted as a valid result;
- To repair equipment that has been rendered unsafe or is incapable of firing a shot by whatever means. This excludes zero-shift of optical equipment or poorly zeroed systems. The competitor may replace the offending part or equipment with the permission of the range officer. No visit to the sighting-in range by the competitor or any person on his/her behalf is allowed;
- If the range officer suspends the match due to weather conditions constituting a safety hazard in the opinion of the range officer. Under these circumstances all persons must leave the course and retire to a safe location, as determined by the range officer.
- For any other occurrence deemed valid by the Range Officer. In all the above cases, save hazardous weather conditions, the competitor's score card must be handed to a marshal and the latter's permission obtained to leave the firing line, with a stipulated time for return. The time of departure and intended return will be recorded on the score card and any card not claimed within the designated return time will be submitted as final score for that match.

5.11 As soon as a match is completed, all score cards, duly completed and signed by both the shooter and scorer, must immediately be returned to the registration officials. Unreturned score cards will be scored as 0. Any unscored targets will be treated as a miss.

5.12 In the event of tied scores for award winning positions, final placements shall be decided by a shoot-off. A dedicated shoot-off lane, or a lane selected from the course will be used for the shoot-off. Each shoot-off lane must be timed as per the timing rules. The dedicated shoot-off lane or selected lane must contain targets within positional shooting parameters (standing/kneeling), and competitors with tied scores will shoot off as follows:

- One round by each tied competitor from the sitting/free position;
- If undecided, one round by each remaining competitor from the kneeling position;
- If still undecided, one round by each competitor from the standing position;
- If still undecided, competitors continue shooting from the standing position until all awards placements have been determined.

Shooters involved in a shoot-off may, by unanimous consent, agree to start the shoot-off on either the kneeling or standing position.

5.13 Unacceptable firing line conduct will not be tolerated. Coaching or barracking of a competitor in competition is prohibited.

5.14 Defined Penalties. The penalty for any unsafe practice or any form of cheating is disqualification, with the Committee reserving the right to take further disciplinary action as defined in the Code of Conduct.

Without restricting the powers of the Technical Officer as match director or the authority of the Committee to institute a disciplinary proceedings the following system of warnings and penalties will be in place for all league matches and other major field target events:

Warnings:

Warnings may be issued by any marshal or the range officer to any competitor and shall be recorded on the score sheet of the competitor and signed by the marshal or range officer issuing the warning.

Warnings may be issued under the following circumstances:

- a) Not adhering to a marshal's or range officer's instruction.
- b) Not timing a shooter (each member in the squad will receive a warning).
- c) Exceeding the limits of the firing line/position.
- d) Leaving the competition area without the permission of a marshal or the range officer during a shoot (toilets near the course are considered part of the competition area).

Any second or further warning issued to a competitor for the same transgression during a match will result in a point penalty to the competitor for each further warning issued.

Point penalties:

A point penalty may be issued, by the range officer only, to any competitor and shall be recorded on the score sheet of the competitor and signed by the range officer issuing the penalty point. A point penalty will result in one (1) point being deducted from the competitor's final score for the match, for every penalty issued.

Point penalties may be issued under the following circumstances:

- a) Use of an illegal kneeling position.
- b) Rifle accessory not allowed.
- c) Seat height or kneeling roll exceeding limit as set by the rules.
- d) Use of artificial or natural support.
- e) Range finding with artificial or natural support.
- f) Accepting or receiving coaching from non-competitors.

Any circumstance or action that might warrant the issuing of a penalty point against any competitor may be brought to the attention of the range officer, by any competitor, or marshal.

Disqualification:

A competitor may be disqualified from a match by the Technical Officer, or person delegated by the Technical Officer to act as match director. Before the decision to disqualify is made, any competitor in regard of which such action is being contemplated, will have the right to be heard by the Technical Officer or delegated match director.

The following circumstances will warrant disqualification:

- a) Any failure to follow safety rules or procedures, including but not limited to accidental or unintended discharges of an air rifle or any action that potentially puts people, property or animals at risk.
- b) Any form of cheating, including but not limited to incorrect marking of a score sheet.
- c) Any form of physical, verbal or sexual abuse of a competitor, marshal, range officer or spectator.
- d) Any use of alcohol or non-prescription drugs before or during the match.
- e) Use during the match of any air rifle that exceeds the 12 ft/lbs limit (or 18ft/lbs for SFT shooters.)
- f) Any failure to submit any air rifle to a chronograph test, when requested to do so.

Any circumstance or action that might warrant the possible disqualification of a competitor may be brought to the attention of the Technical Officer, or delegated match director, by any competitor, marshal, range officer or spectator.

5.15 If, during a competition, a shooter considers a target to be outside of the allowed target range for its kill-zone size, the shooter may decide between shooting the target and presenting a dispute to a Marshall.

- a) If the decision is to shoot the target, the result will be marked on the scorecard and the shooter loses the possibility of presenting a dispute.
- b) If the decision is to dispute the target, the dispute will be registered on the scorecard after which the target can be shot and the result marked on the scorecard. At the end of the competition, any disputed target will be measured by a Marshall to check the distance. If the target is within the allowed target range for its kill-zone size then the administration fee must be paid. If the target is outside of the allowed distance then the target will be declared illegal.

5.16 Once a competition has started, any target declared to be illegal will be removed from the competition. All competitors will be given a miss for the target. Reasons for declaring a target illegal include (but are not limited to):

- Target outside the allowed range.
- Use of a reducer where it is not permitted (e.g. 15mm reducer on a positional lane.)

6 Provincial League Series

- 6.1 Each province will host a series of league matches. The calendar for such series must be submitted to the Committee for prior approval.
- 6.2 Each province may determine the commencement of its League Series independently.
- 6.3 The Committee may combine the League Series of two or more provinces, where it is deemed to be in the best interest of the sport.
- 6.4 Participation is open to all SAFTAA affiliated members or members of a national body affiliated to the World Field Target Federation. This requirement will be abandoned in instances of first participation in a series.
- 6.5 The Technical Officer may set a standard of difficulty for league series matches. The difficulty standard is available from the SAFTAA website (<http://www.saftaa.co.za>).
- 6.6 The responsible member of the club hosting the league series match, shall complete a certificate of compliance, stating that the course complies with rules 2.1 to 2.7 and that the standard of difficulty set according to rule 6.5 has been met. Such certificate shall be displayed at the match and must be delivered to the Technical Officer within 7 days after the match. The certificate of compliance is available from the SAFTAA website (<http://www.saftaa.co.za>).
- 6.7 In the event of failure to comply with rules 2.1 to 2.7, the standard set according to rule 6.5 or rule 6.6 by the hosting club, the Committee may revoke the League Series status of the match. In such instance no result will stand.
- 6.8 The hosting club shall deliver the scores from the match to the member responsible for the logs within 3 days. Appendix C shall be used to deliver the scores. The hosting club shall keep all scorecards for a period of 1 month.
- 6.9 If a League Series match is suspended by the range officer due to hazardous weather conditions, and the match cannot be resumed, no result will follow if less than 50% of the course has been completed by any competitor. If more than 50% of the course has been completed by all competitors, the least number of targets completed by any competitor will be used to compute a score and every competitor's score over that number of targets will constitute his/her score. (e.g. if the least number of completed targets is 26 and competitor A has completed 28 targets, A's score will be the total achieved over the first 26 targets shot by A.)

- 6.10 A provincial log will be kept in respect of each province. The results from League Series matches will be recorded on the log. The winning score will be reflected as 100% and all other scores will be expressed as a percentage thereof. A shooter's 6 highest scores will be reflected on the log, and the average thereof. Any query regarding a score, as reflected on the log, must be raised within 2 weeks of its publication with the member responsible for the logs.
- 6.11 Results will be recorded in the log of the province where a shooter normally competes, irrespective of where the score was achieved.
- 6.12 All shooters on the provincial logs will be graded. The grade will be calculated on the following basis: the average of your 4 best scores achieved over your last 8 league scores.

The grades being the following:

90% and above	AA
Between 80% and 90%	A
Between 70% and 80%	B
Between 60% and 70%	C
Between 50% and 60%	D
Below 50%	E

- 6.13 The first 3 FT places in the match will be recognized, and additionally in grades A, B, C, D, and E and springer category.
The first 3 SFT places in the match will be recognized, and additionally in U10 and U17.
- 6.14 Each province, which has a separate League Series, will host an annual provincial championship for that province. Such provincial championship shall consist of 2 matches. The results of each match of the provincial championship will be recorded as a provincial league series match. The naming of such provincial championships is in the discretion of the province concerned.

7 National Trials

National Trials will be held annually to select a national team to represent South Africa at the World Field Target Championships.

- 7.1 Team selection is only open to South African citizens.
- 7.2 The minimum qualification for entry into the National Trials is a 60% average on the national trials log. Entry will be limited to the top 100 shooters on the national trials log.

- 7.3 A national trials log, separate from the provincial League Series logs will be kept. The national trials log will record shooters scores at provincial league events in the 12-month period preceding the national trials. The 6 highest scores will be recorded as well as the average. No average will be reflected if less than 6 scores are recorded on the national trials log.
- 7.4 The minimum qualification standard for the national team is the following:
- An average of 90% or more on the national trials log, and
 - At least 1 contributing score must be achieved at a provincial championship.
- 7.5 A series of 3 matches will be shot at the National Trials.
- 7.6 The National Team shall consist of the top 8 finishers at the National Trials, subject to rules 7.1 & 7.4.
- 7.7 In the event that any member of the National Team is, for any reason, unable to attend the World Championships, the Committee may, after considering performance at the National Trials, performance during the provincial league series and previous experience, invite a replacement shooter to join the National Team.
- 7.8 The Committee may, in its discretion, extend invitations to specific international shooters to attend the National Trials.
- 7.9 All targets shall be clearly numbered (per course from left to right) on the target faceplate.

8 SAFTAA Colours and Other Awards

SAFTAA colours are awarded at the conclusion of the National Trials in recognition of performance.

- 8.1 The top 8 shooters at the National Trials, who are not members of the National Team and have not been awarded national colours previously, will be recognized with SAFTAA colours.
- 8.2 The top junior shooter at the National Trials will be recognized as the junior champion, with medals awarded up to 3rd place. Only junior shooters with an average of 75% or more on the National Trials log will be considered for awards.

9 Sporter Field Target (SFT)

SFT differs from normal Field Target rules in the following aspects:

- 9.1 Any PCP or springer air rifle of 5.5mm calibre or less, and up to 18 ft/lb and less may be used.
- 9.2 The rifle scope magnification shall be limited to a magnification power of 12x. If a rifle scope has a higher magnification available, it will be turned down to 12x or any lower setting of the shooters choice and taped at such setting for the duration of the event.
- 9.3 The scope's parallax / focus may be used to aid in ranging targets. The elevation and windage turrets on the scope may be altered during a shoot.
- 9.4 Points scoring. A hit on the faceplate of the target scores one point (1) and a knock down of the target scores two points (2). A complete miss scores a zero (0).
- 9.5 Shooters in the under 10 class may use bi-pods or any similar means to stabilize their aim.
- 9.6 SFT shooters will be paired together at league events.
- 9.7 Clubs may decide on the minimum age for SFT participants at any shoot.

10 Maximum speeds allowed for Field Target (12 fpe)

Weight (grains)	Speed (FPS)								
6.0	949	9.6	750	13.2	640	16.8	567	20.4	515
6.1	941	9.7	746	13.3	637	16.9	565	20.5	513
6.2	934	9.8	743	13.4	635	17.0	564	20.6	512
6.3	926	9.9	739	13.5	633	17.1	562	20.7	511
6.4	919	10.0	735	13.6	630	17.2	560	20.8	510
6.5	912	10.1	731	13.7	628	17.3	559	20.9	508
6.6	905	10.2	728	13.8	626	17.4	557	21.0	507
6.7	898	10.3	724	13.9	623	17.5	556	21.1	506
6.8	891	10.4	721	14.0	621	17.6	554	21.2	505
6.9	885	10.5	717	14.1	619	17.7	552	21.3	504
7.0	879	10.6	714	14.2	617	17.8	551	21.4	502
7.1	872	10.7	711	14.3	615	17.9	549	21.5	501
7.2	866	10.8	707	14.4	613	18.0	548	21.6	500
7.3	860	10.9	704	14.5	610	18.1	546	21.7	499
7.4	854	11.0	701	14.6	608	18.2	545	21.8	498
7.5	849	11.1	698	14.7	606	18.3	543	21.9	497
7.6	843	11.2	695	14.8	604	18.4	542	22.0	496
7.7	838	11.3	691	14.9	602	18.5	540	22.1	494
7.8	832	11.4	688	15.0	600	18.6	539	22.2	493
7.9	827	11.5	685	15.1	598	18.7	538	22.3	492
8.0	822	11.6	682	15.2	596	18.8	536	22.4	491
8.1	817	11.7	680	15.3	594	18.9	535	22.5	490
8.2	812	11.8	677	15.4	592	19.0	533	22.6	489
8.3	807	11.9	674	15.5	590	19.1	532	22.7	488
8.4	802	12.0	671	15.6	589	19.2	530	22.8	487
8.5	797	12.1	668	15.7	587	19.3	529	22.9	486
8.6	793	12.2	665	15.8	585	19.4	528	23.0	485
8.7	788	12.3	663	15.9	583	19.5	526	23.1	484
8.8	784	12.4	660	16.0	581	19.6	525	23.2	483
8.9	779	12.5	657	16.1	579	19.7	524	23.3	482
9.0	775	12.6	655	16.2	578	19.8	522	23.4	481
9.1	771	12.7	652	16.3	576	19.9	521	23.5	479
9.2	766	12.8	650	16.4	574	20.0	520	23.6	478
9.3	762	12.9	647	16.5	572	20.1	518	23.7	477
9.4	758	13.0	645	16.6	571	20.2	517	23.8	476
9.5	754	13.1	642	16.7	569	20.3	516	23.9	475

11 Maximum speeds allowed for Sporter Field Target (18fpe)

Weight (grains)	Speed (FPS)								
6.0	1162	9.6	919	13.2	784	16.8	695	20.4	630
6.1	1153	9.7	914	13.3	781	16.9	692	20.5	629
6.2	1143	9.8	909	13.4	778	17.0	690	20.6	627
6.3	1134	9.9	905	13.5	775	17.1	688	20.7	626
6.4	1125	10.0	900	13.6	772	17.2	686	20.8	624
6.5	1117	10.1	896	13.7	769	17.3	684	20.9	623
6.6	1108	10.2	891	13.8	766	17.4	682	21.0	621
6.7	1100	10.3	887	13.9	764	17.5	681	21.1	620
6.8	1092	10.4	883	14.0	761	17.6	679	21.2	618
6.9	1084	10.5	879	14.1	758	17.7	677	21.3	617
7.0	1076	10.6	874	14.2	755	17.8	675	21.4	615
7.1	1068	10.7	870	14.3	753	17.9	673	21.5	614
7.2	1061	10.8	866	14.4	750	18.0	671	21.6	613
7.3	1054	10.9	862	14.5	748	18.1	669	21.7	611
7.4	1047	11.0	858	14.6	745	18.2	667	21.8	610
7.5	1040	11.1	854	14.7	743	18.3	665	21.9	608
7.6	1033	11.2	851	14.8	740	18.4	664	22.0	607
7.7	1026	11.3	847	14.9	738	18.5	662	22.1	606
7.8	1019	11.4	843	15.0	735	18.6	660	22.2	604
7.9	1013	11.5	839	15.1	733	18.7	658	22.3	603
8.0	1006	11.6	836	15.2	730	18.8	657	22.4	601
8.1	1000	11.7	832	15.3	728	18.9	655	22.5	600
8.2	994	11.8	829	15.4	725	19.0	653	22.6	599
8.3	988	11.9	825	15.5	723	19.1	651	22.7	598
8.4	982	12.0	822	15.6	721	19.2	650	22.8	596
8.5	976	12.1	818	15.7	718	19.3	648	22.9	595
8.6	971	12.2	815	15.8	716	19.4	646	23.0	594
8.7	965	12.3	812	15.9	714	19.5	645	23.1	592
8.8	960	12.4	808	16.0	712	19.6	643	23.2	591
8.9	954	12.5	805	16.1	709	19.7	641	23.3	590
9.0	949	12.6	802	16.2	707	19.8	640	23.4	589
9.1	944	12.7	799	16.3	705	19.9	638	23.5	587
9.2	939	12.8	796	16.4	703	20.0	637	23.6	586
9.3	934	12.9	793	16.5	701	20.1	635	23.7	585
9.4	929	13.0	790	16.6	699	20.2	633	23.8	584
9.5	924	13.1	787	16.7	697	20.3	632	23.9	582