



Pumpkin Sling at Picatinny Contest Entry Form

Friday, November 18, 2016

PICATINNY ARSENAL

Route 15 North, Wharton, NJ 07885

<http://www.pica.army.mil/Picatinny>

Rules subject to final review for safety. Final Rules will be posted by October 31, 2016

School: _____

Team Name for Publishing: _____

Name of Adult In Charge: _____

Mailing Address _____

Phone: Home: _____ Work: _____

Email: _____

Our Team represents (check one):

_____ Elementary _____ Junior High _____ High School

_____ Estimated Number Attending

Check Your Category – *Please check all that apply. This will help us determine placing more quickly. We reserve the right to merge categories based on participation.*

_____ Catapult / Trebuchet Short Arm _____ Ballista Catapult/ Torsion Catapult

_____ Catapult / Trebuchet Long Arm _____ Rookie (1st time in any “pumpkin sling”)

Prizes will be awarded for greatest distance in each age category, best of 3 attempts. The grand prize trophy will be awarded for the overall distance winner.

List All Team Members.

All team members in pit must have waivers on file prior to any launch activity. We reserve the right to limit the number of members in the pit. Teams may alternate members in pit between throws.

Describe safety precautions reviewed with team during practices

Please return entry forms to:

Highlands Tourism Partnership, PO Box 221, Stewartsville, NJ 08886

Bring acknowledgement of risk forms with you the day of the event for each team participant.

PLEASE NOTE: ONLY US CITIZENS WILL BE ALLOWED AT PICATINNY ARSENAL. All attendees will be required to submit ID prior to entry. All school groups should arrive all together as a group in one vehicle to expedite entry.

LOCATION

Picatinny Arsenal, Route 15 North, Wharton, NJ 07885

Directions and details for entry will be emailed to you upon registration.



RULES AND REGULATIONS:

A. General Rules

1. Each team will have three shots, one shot in each round of the completion. Practice shots may be allowed at the discretion of the organizers.
2. Pumpkin will be supplied by organizers and will weigh between 2-4 pounds.
3. All pumpkins fired must remain intact until they impact the ground/water to count for an official measurement. Distances will be measured from the pumpkin's position just before the shot is triggered to the point of first impact.
4. Pumpkins may not be altered in any way, except for shortening or removing the stem.
5. If any part of the machine is thrown forward so that it lands in front of the rest of the machine, that shot will be disqualified.
6. No wadding is permitted (including bean chaff, straw, foam, metal, or any other object.)
7. No explosives or internal combustion engines are allowed.
9. The LFPS reserves the right to combine any classes if there is a lack of participation, as determined by the organizers. All classes must have three (3) entries in that class to open it to competition. Each machine may enter only one (1) class.
10. Teams may preload. When required each team may have 5 minutes to cock the machine, load the pumpkin, and fire.
11. If you are disqualified in any round of the competition for breaking General or Safety rules, you will forfeit your longest distance, not the distance of the shot you are being disqualified on.

B. Safety Rules

Precautions must be taken at all times ensure the safety of your team members as well as the safety of those in the pits next to you. The staff is here to help you stay safe, so please help them to help you by communicating with them changes that might impact safe operation of your machine. Don't assume that they understand your equipment as well as you. **If the judges determine that a given machine is not competing and launching in a safe manner as outlined in the rules below, they will be eliminated from competition. No exceptions.**

1. All persons present in the pits during competition must sign a LFPS Liability Release Form. Team members under age 18 must have their form signed by a parent or guardian.
2. All team members under the age of 18 must be under adult supervision at all times while in the pits.
3. Hard hats and safety goggles, provided by the team, must be worn at all times by members in the pit area surrounding the machine. The use of gloves by members handling ropes or cables is strongly encouraged in order to minimize the chance of injury.
4. All machines must have a safety mechanism to prevent premature release before they are loaded and ready to fire. This mechanism should be designed so that it prevents the throwing mechanism from starting a throwing motion if the trigger is inadvertently activated.
5. All members of the team must be at least 10 feet away from the machine when it is fired. The release of the safety mechanism is not subject to the 10 foot requirement.
6. All machines will be inspected by the safety committee. Any machine found to have structural defects (load beams, firing pins, any load bearing members, supports or support subsystems) will be suspended from the competition until repairs are completed and re-inspected to the satisfaction of the committee.
7. All cables and cable clamps must be sized and installed properly. If you're not sure about the correct way to install the clamps, look at this:
<http://www.ropecentre.co.nz/general-hardware/wire-rope-grips.html>
8. No machine may fire without the approval of the pit boss, or without sounding a horn or other warning device just prior to release.

C. Machine Class Information

The machine can be of any design as long as it is constructed of materials rated for the weights or stresses that will be put on them, and that safe construction methods (welds, fasteners, etc.) are used. Each entry will be inspected prior to the competition by a safety team, which will determine compliance with the guidelines. No internal combustion engines, compressed gas,

steam, hydraulics or ignitable substances may be used in any way. All energy used to cock the machine must come from the team members or a battery, in the case of an electric winch. Mechanical winches, block and tackle, and other such devices are permitted to provide mechanical advantage if the machine is cocked by the team members.

Machines must be loaded and released by youths between the ages of 11 and 17, with adult supervision.

Youth Trebuchet – Short Arm

1. All energy used to launch the pumpkin after release shall come from the potential energy stored in an elevated mass.
2. A mechanical device such as a block and tackle or winch may be used to cock the machine. Electric winches are also permitted.
3. The throwing arm may have a maximum length of 6 feet. This length is measured from the center of arm's rotational axis to the point where the fixed sling line attaches to the arm. In the case of a machine without a sling, arm length is measured from the rotational axis to the center of the projectile in the ready to launch position. In the case of a floating arm machine or other design variant, the rotational axis that yields the longest arm measurement will apply.
4. Machines must conform to all General and Safety rules.

Youth Trebuchet – Long Arm

Same as for Youth Trebuchet - Short Arm except that there is no restriction on arm length.

Youth Catapult – Short Arm

1. All or some of the energy used to launch the pumpkin after release shall come from the potential energy stored in an elastic material. This class includes machines such as torsion catapults and ballistae.
2. A mechanical device such as a block and tackle or winch may be used to cock the machine. Electric winches are also permitted.
3. The throwing arm may have a maximum length of 6 feet. This length is measured from the center of arm's rotational axis to the point where the fixed sling line attaches to the arm. In the case of a floating arm machine, the rotational axis that yields the longest arm measurement will apply. In the case of a machine without a sling, arm length is measured from the rotational axis to the center of the projectile in the ready to launch position.

4. Machines must conform to all General and Safety rules.

Youth Catapult – Long Arm

1. Same as for Youth Catapult - Short Arm, except that there is no restriction on arm length.

Site Restrictions

No Alcohol

No Pets. Registered medical service animals only.

All those entering base must be US Citizens

Proper Photo ID must be presented at time of entry.