

**OFFICIAL  
RULES & SAFETY  
HANDBOOK**

*REV. 10*  
**Official July 11, 2009**

**PUNKIN CHUNKIN ASSOCIATION  
OFFICERS  
2009**

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**ALL GENERAL AND SAFETY RULES MUST  
BE OBSERVED AS SET FORTH IN THIS  
BOOK BY TEAM CAPTAINS**

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## **General Rules**

1. All pumpkins fired must remain intact until they impact the ground to obtain an official measurement.
2. No part of the machine shall cross the firing line.
3. No Wadding (including bean chaff, straw, foam, metal, or any other object.)
4. No explosives are allowed.
5. The WCPCA is not responsible for any equipment needs you may have once on the field. If you need equipment to set up or disassemble your machine, you must make those arrangements prior to the event. Teams will no longer be allowed to operate equipment rented by the association for insurance reasons. The WCPCA is not responsible for typographical errors in this book.
6. The Punkin Chunkin Association reserves the right to combine any classes if there is a lack of participation. Any class that is subject to cutting will be contacted to see where they want to be moved. This will mean they must meet the full qualifications of the class they move to. All classes must have three (3) entries in that class to open it to competition. If any Class is cut for the year it will need 3 entries to open it again in the future. Machines can only enter one (1) class per machine. Teams entering two machines on the same trailer in the same class may do so; provided they do not share components and they pay for both entries.
7. All Machines must be able to fire within three (3) minutes. Human power will get an additional two (2) minutes to cock the machine. (Keep in mind that every attempt is made to give you (20) minutes by informing you 4 machines or more down the firing line.) Any machine not able to fire when the pit boss decides your three (3) minutes are up, will forfeit that round. No exceptions! Team captains are responsible for making sure they get their pumpkin weighed well enough in advance to ensure they have time they need to set up. Team Captains are responsible for making sure you are ready when it's your turn to chunk.
8. Pumpkins are not to be altered in any way, excluding P.C.A. marker paints. All pumpkins must be in their natural state. Pumpkins fired from machine during competition will be measured from the front of or the farthest point of machine. Your pit # may be written on your pumpkin to help in the identification at the landing zone.
9. All machines must be set up in the assigned areas. You will be given notice of this area well in advance. No excuses will be entertained for not being in your spot (on game day). You will be required to move.
10. A flag will be posted at the edge of the "woods" line. If a pumpkin is fired out of the field of play and into the woods your shot will be considered a foul and you may take another shot or take measurement from the flag posted. Only (1) make up shot will be allowed per round of competition. The team captain may be asked to redirect their machine. The machine will have to be reinspected by the safety inspector.
11. When using an 8-10 lb. Punkin the longest distance of the event is the WORLD CHAMPION PUNKIN CHUNKER and wins the overall chunk regardless of class. All other first place winners are Champion's of class entered.
12. Any machine using compressed air must have the punkin loaded before pressure is developed.
13. The pit boss starts the three (3) hour clock (logged) for the team taking option to have spotters locate punkin. If any captain should request a log report for a competitive team this will be made available to him / her (Please see pit boss)
14. It is the responsibility of the prior year champion to return the traveling trophy to the current years World Championships in DE. The trophy must be kept in good condition.
15. If you are disqualified for any round in competition for breaking, Safety and General rules you will forfeit your longest distance not the distance of the shot you are being disqualified on.
16. All machines and equipment used by chunkers must be removed from the field within (2) weeks after the Punkin Chunkin Competition. Owner or team captain will pay towing and storage expenses for machine and equipment left on field after deadline. Youth in pits must be under adult supervision at all times. Example: Youth could fire machine while unattended and be injured or injure someone else.
17. WCPCA Photo Identification cards should be worn at all times.
18. No campers, tents or any overnight camping is allowed in pits. You must camp in the designated area. Bon Fires are governed by the State Burning regulation.
19. No pets are allowed in the pits.

## **Safety Rules**

1. Hoses must be in good operating condition. Chafed or cut hoses must not be used. If using Chicago type quick connects, safety pins must be installed in each of the two holes. Any recommended safety equipment designed for any type of coupler must be used! All air lines 1" in diameter and larger must be cabled to a stationary device.
2. All sections of your cannon barrel must be properly secured so that they will not separate and will stay stationary. Make sure you do not pinch or collapse your barrel when using aluminum barrel. All cannons not using an actuated valve powered by air or some other mechanical device must have a spring loaded normally open valve. The use of Plastic Polyvinyl Chloride (PVC) will not be allowed for air cannon barrels, due to the safety hazard of this type of pipe. This pipe is not for compressed air. The manufacturer of the pipe states it is unsafe to transport air in PVC pipe no matter what schedule you use. Air vessels made of PVC will be illegal. No PVC or plastic is allowed in pressurized areas of the vessel. A smaller A.S.M.E. relief valve can be placed on the vessel when the operation requires the tank to be filled from a cylinder tank. This valve will be set at or below the allowable working pressure of the vessel. All relief valves must be maintained in proper working order during operation of the machine.
3. Aluminum barrels suspended by cables must have the cables anchored to a substantial base to prevent whipping around. Plastic coated cable will not be allowed.
4. All machine captains and teammates are to follow World Championship Punkin Chunkin Association Rules or you will be penalized or disqualified, depending on the nature of which rule is broken. If you are penalized, you will forfeit your chance to chunk in that round of competition if disqualified you will be referred to rule #15 of the General Rules. Major infractions that are deemed as challenging the safety of the chunk and/or others around your machine will be discussed during a quorum of The Safety and Rules Committee to decide on the actions to take. The results of the Quorum will be relayed to the team captain. There will be Zero Tolerance for those who break safety rules.
5. All members and/or captains are to contact safety official before climbing any machine during competition and must have clearance from the safety committee. No one is to climb any machine while cocked, elevated or in a dangerous situation. Teams using ladders to assemble, Load, repair, or dismantle equipment must have a spotter to hold the ladder and/or a tie off to the ladder to prevent injury. Teams are recommended to use a safety harness when climbing over 10 feet above the ground.
6. It is at the discretion of the Safety Inspector to require a 15 min. fully cocked stress test and test fire to ensure public safety
7. The WCPKA association reserves the right to request a team captain to dismantle his or her machine to inspect for foul play. For example, use of any propellant other than compressed air. If you are caught using any chemicals (NITROGEN, HELIUM, HYDROGEN or any illegal substances other than compressed air) you will be banned from The World Championship Punkin Chunk
8. All portable air storage vessels used to fill their cannon must be stood upright and secured to a stationary device. No tanks or vessels may be stored lying down on the ground or transported lying down in any vehicle. Every vessel must have a safety cap on it when not in use. All nipples, fittings, manifolds, or airlines must be capable of handling the pressure of air on them. This is your responsibility.  
All propane tanks must be secured to a stationary device.
9. Any air vessel under 5 cu. ft. is the responsibility of the owner or team captain to make sure it is safe to use. If the safety committee feels your vessel is not safe due to rust, pitted or damage, you will have to correct the problem before the vessel can be used.
10. All catapult and trebuchet machines must have a safety strap or mechanism to hold the throwing arm or boom in case of misfire when loading. You are responsible for making sure everyone stays clear of your machine, in case of a misfire. Personnel handling ropes or cable should wear gloves such as a sailing or repelling type to prevent burns.
11. Inspect all hydraulic lines each time you cock or lift your machine. Make sure winches can handle the load and cables are in good condition. Make sure your release mechanisms are heavy enough to handle the load. Make sure you have an automatic brake or a dog lock on winch or cocking device.
12. **\*\*New\*\*** in 2009, all winches and or cocking devices will need safety cages. Winch operators must be protected at all times when cocking their machine, or throwing device. This is for any team who is placed in the line of fire during winch operation. If you are in the line of fire of the winch, the machine must have a safety cage installed between the team member in the line of fire and the winch in case of winch or cable failure.
13. All cannons must be secured to prevent upward recoil. It is the machine designer's responsibility to make sure winch and cables can handle the load put on them. Also cables and clamps must be installed correctly. Cannons, machine or throwing device on theatrical division must be inspected.
14. No children under 16 will be allowed to drive golf carts, four wheelers, dirt bikes, or ATVs alone. They may ride with an adult that has a valid driver's license. All golf carts, four wheelers, dirt bikes or ATVs must display their pit number on that vehicle in clear view. No golf carts, four wheelers, dirt bikes, or ATVs, are permitted on the field beyond firing line unless you are an association official or spotter actively engaged in spotting pumpkins.
15. Only Team spotters will be allowed on the landing field. They must remain on the landing field until released and must sign in & out at designated area. All spotters on motorized vehicles will operate their vehicles responsibly at their own risk.
16. Backstops will be required for any machine that can fire backwards (even if it never has done so). Teams may make their own backstops for the chunk but they must be constructed to a WCPKA approved design standard. Any machine inspected on

the field or approved in advance, as “not able to fire backwards” will be exempt from this requirement. Machines marked for backstops that fire without one will be disqualified from the chunk. This includes anytime they fire while on the field.

17. Any machine found to have structural defects (weld fractures affecting the pressure vessel, load beams, firing pins, any load bearing members, supports or support subsystems) will be banned from chunking until repaired and reinspected by a member of the safety committee.

18. No Lag bolts in load bearing applications. Lag bolts are considered low end load bearing components and will not be approved in any application where stress can fatigue the lag or the hole made for it. The approved method of attachment is with carriage, shoulder, or hex head bolts with washers and backing plates.

19. Any shackles on a machine must have a safety tie on pin to prevent loosening.

20. Small holes for stabilizers will be permitted. A 24”x24”x24” hole is acceptable and must be filled, tamped and topsoil replaced before leaving pit area. It is your responsibility to keep pedestrians from falling in your hole. Leave No Trace.

21. Safety committee end of day meeting - The safety committee will meet at 4 PM meeting each day. If you have safety issues to present, we welcome team captains to do so at this time. Note: No inspections after dark.

22. All team captains must sign the field roster stating that they have received, read, and understand the 2009 rules of the World Championship Punkin Chunkin Association. This sheet will be on the field and given to the pit boss, if it is not signed, you do not chunk. All team captains must attend all safety field meetings. If the daily meeting roster is not signed at the end of the morning meeting you will not be tracked down and the team will not compete that day of competition.

23. Compressed air machines must have a bleed off device (valve) to allow for safely removing the air if the machine cannot be fired. This device should be installed so that it does not blow directly to the dirt or face level to prevent Eye injury. If it is exposed to the body level it should have a shield installed to deflect the air. All Air inlets on tank must have a Check Valve Installed.

24. Ceasefire, No machine is to fire when a cease fire has been ordered. If you are locked and loaded or pressurized at this time, contact security, pit boss, safety committee, so you can safely discharge or bleed off air pressure. Pop off relief safety valves must have plastic shipping plugs removed when pressurizing any cannon or machine. Pop off relief safety valves are not to be altered or held down to prevent popping off. Pop off relief valves are not to be reclosed after opening on their own while machine is being pressurized to fire.

25. Machines may not chunk until the safety committee inspects and approves them to be safe by the WORLD CHAMPIONSHIP PUNKIN CHUNKIN SAFETY RULES. Any alterations after being inspected will require another inspection to be able to fire. If your machine has been inspected you will need to be reinspected by a safety inspector official in order to fire again. The safety committee may require the team captain to fire their machine during the inspection process to ensure the machine is safe enough to compete at the World Championship Chunk.

26. Hard Hats and Eye Protection to be worn by all fire line personnel in pit when firing

27. Each Machine must have Fire Extinguisher mounted to machine and First Aid Kit in plain view and clearly marked for all people to see, but not on machine.

28. The following rules are State of Delaware requirements enforced by Department of Natural Resources and Environmental Control (DNREC). They are non negotiable.

**DNREC Rules are as follows:**

1. All pressure vessels shall be built to the American Society of Mechanical Engineers (A.S.M.E.) construction codes. The vessels will have a manufactures nameplate with proper (A.S.M.E.) stamping and will be marked with the vessel's allowable working pressure.
2. All pressure vessels shall be equipped with A.S.M.E. approved and sealed relief valve set at or below the allowable working vessel. The relief valve will need approval by the boiler safety so it is recommended you contact them before purchasing the valve. The owner/user shall assure that the relief valve(s) is functional at all times. The relief valve(s) shall be tested by the owner/user at the time of inspection. (To start in 4 yrs. from 9/13/08)
3. Each vessel shall be inspected by the Delaware Division of Boilers safety and issued an operating certificate if the vessel meets all the requirements for operations in the State of Delaware. These certificates are valid for four years from the date of inspection/ issuance. This certificate must be in hand before machine can enter the field.
4. Each grandfathered vessel shall have a hydrostatic test conducted in accordance with the test procedures in the national board inspection code. Each Grandfathered vessel must be hydrostatically tested every two years and witnessed by a National Board Commissioned inspector and the results recorded and presented at time of inspection by the Boiler Safety. If a third party National Board Commissioned inspector is not used, a Boiler Safety inspector can witness the test on any vessel upon request. If out of state vessels are to be inspected by a Boiler Safety inspector the vessel must be in Delaware no later then Wednesday before the event. No out of state inspection accepted, inspection must be done in Delaware.
5. A.S.M.E. vessels in operation, prior to the 2004 Chunk are considered (Grandfathered) under these conditions. Any future alterations and repairs made to the pressure vessel must meet the National Board of Boilers and Pressure Vessel Inspectors Code (NBIC). Any air cannons constructed after the 2004 event must meet existing Department regulations.
6. All vessels regardless of origination, operated at the event must meet these requirements.
7. The WCPA is not in a position to deviate from the DNREC requirements and must ensure enforcement of those requirements.

## ***Adult Air Class (18 and older)***

1. Pumpkins must weigh between 8 & 10 pounds.
2. "Compressed air only
3. Pumpkin must be loaded before Pressurizing vessels, and an Official must see you load it
4. All Air inlets on vessel must have a Check Valve Installed.
5. Horn or sound device must sound when firing down range for safety or spotter on the field.
6. See Safety and General Rules.

## ***Adult Centrifugal Class (18 and older)***

1. Pumpkins must weigh between 8 & 10 pounds.
2. Machines shall spin at least 1 revolution before chunkin.
3. These Machines require Back Stops.
4. All Centrifugal machines must be equipped with a safety hub.
5. Horn or sound device must sound when firing down range for safety or spotter on the field.
6. See Safety and General Rules.

## ***Adult Catapult Class (18 and older)***

1. Pumpkins must weigh between 8 & 10 pounds
2. Machine shall consist of springs, cords, rubber, dead weights, or other mechanical means of creating a stored energy.
3. A mechanical Device may be used to cock machine.
4. These Machines require Back Stops
5. Horn or sound device must sound when firing down range for safety or spotter on the field.
6. See Safety and General Rules.

## ***Adult Trebuchet Class (18 and older)***

1. Pumpkins must weigh between 8 & 10 pounds.
2. Machine shall consist of swinging, or fixed counterweights. They can be made of wood, metal, or plastic.
3. A mechanical Device may be used to cock machine.
4. These Machines require Back Stops
5. Horn or sound device must sound when firing down range for safety of spotter on the field.
6. See Safety and General Rules.

## ***Adult Human Power Class (18 and older)***

1. Pumpkins must weigh between 8 & 10 pounds.
2. Machines can use any kind of stored energy that can be stored by a single person in two minutes. (Energy must be stored by the power of this one person, not by other means.)
3. Contestants shall be given a maximum of (2) two minutes from the start of cocking their machine until fully cocked. The machine is then locked for safety. (This does not include the three (3) minute rule for being ready to fire).
4. Some may require Backstops due to the type of machine.
5. Horn or sound device must sound when firing down range for safety of spotter on the field.
6. See Safety and General Rules.

## ***Adult Human Power Centrifugal Class (18 and older)***

1. Pumpkins must weigh between 8 & 10 pounds.
2. Machines can use any kind of stored energy that can be stored by a single person in two minutes. (Energy must be stored by the power of this one person, not by other means.)
3. Contestants shall be given a maximum of (2) two minutes from the start of cocking their machine until fully cocked. The machine is then locked for safety. (This does not include the three (3) minute rule for being ready to fire)
4. These machines require Backstops
5. All Centrifugal machines must be equipped with a safety hub.
6. See Safety and General Rules.
7. Centrifugal machines are any machines that spin the pumpkin more than 1 full revolution. Human power machines will be allowed time to cock plus time to secure and fire.
8. Horn or sound device must sound when firing down range for safety of spotter on the field.

## **Adult Torsion Catapult Class (18 and older)**

1. Pumpkins must weigh between 8 & 10 pounds.
2. Machine shall consist of torsion springs, or cords that once wrapped around its axle (pivot point) will create a stored energy.
3. A mechanical Device may be used to cock machine.
4. These Machines require Back Stops
5. Horn or sound device must sound when firing down range for the safety of the spotter on the field.
6. See Safety and General Rules.

## **Theatrical Class**

1. Pumpkins can weigh anything you want them to weigh.
2. Pumpkin must leave the machine intact. (To stay with the theme)
3. No part of the machine shall cross the firing line. Wadding sounds like fun for this class must look great... (You are responsible for cleanup)
4. No age limit.
5. Machines limited to chunkin 100' or less. (Distance is not the goal; ability to ham it up is the goal).
6. Teams will be judged on the show, each team can hold as many shows per day that they wish to perform.
7. The selected PCA judges will set judging times.
8. Horn or sound device must sound when firing down range for the safety of the spotter on the field.
9. Any Cannon or throwing device on theatrical division must be inspection by safety inspector.
10. See Safety and General Rules.

## **Youth 11-17 Air Class**

1. Pumpkins must weigh no less than 4lbs.
2. "Compressed air only"
3. Youth machines must be designed so that a child of the class age can perform all aspects of the set-up, loading, and full operation of the machine. If the team youth are not able to perform all tasks the machine will be scored in the equivalent adult class.
4. Pumpkin must be loaded before pressurizing vessels, and Official must see you load it
5. All Air inlets on vessel must have a Check Valve Installed.
6. Youth in pits must be under adult supervision at all times. Example: Youth could fire machine while unattended and be injured or injure someone else.
7. Horn or sound device must sound when firing down range for the safety of the spotter on the field.
8. See Safety and General Rules.

## **Youth 11-17 Catapult Class**

1. Pumpkins must weigh no less than 4 pounds.
2. Youth machines must be designed o that a child of the class age can perform all aspects of the set-up, loading, and full operation of the machine. If the team youth are not able to perform all tasks the machine will be scored in the equivalent adult class.
3. A mechanical Device may be used to cock machine.
4. Machine shall consist of springs, cords, rubber, dead weights, or other mechanical means of creating a stored energy.
5. These machines need a back stop
6. Youth in pits must be under adult supervision at all times. Example: Youth could fire machine while unattended and be injured or injure someone else.
7. Horn or sound device must sound when firing down range for the safety of the spotter on the field.
8. See Safety and General Rules.

## ***Youth 11-17 Trebuchet Class***

1. Pumpkins must weigh no less than 4 pounds
2. Machine shall consist of swinging, or fixed counterweights.
3. Youth machines must be designed so that a child of the class age can perform all aspects of the set-up, loading, and full operation of the machine. If the team youth are not able to perform all tasks the machine will be scored in the equivalent adult class.
4. A mechanical Device may be used to cock machine.
5. These Machines require Back Stops
6. Youth in pits must be under adult supervision at all times. Example: Youth could fire machine while unattended and be injured or injure someone else.
7. Horn or sound device must sound when firing down range for safety of spotter on the field.
8. See Safety and General Rules.

## ***Youth 11-17 Human Power Class***

1. Pumpkins must weigh no less than 4 pounds.
2. Machines can use any kind of stored energy that can be stored by a single person in two minutes.
3. Contestants shall be given a maximum of (2) two minutes from the start of cocking their machine until fully cocked and locked for safety. (This does not include the three (3) minute rule for being ready to fire)
4. Youth machines must be designed so that a child of the class age can perform all aspects of the set-up, loading, and full operation of the machine. If the team youth are not able to perform all tasks the machine will be scored in the equivalent adult class.
5. Some may require Backstops due to the type of machine.
6. Youth in pits must be under adult supervision at all times. Example: Youth could fire machine while unattended and be injured or injure someone else.
7. Horn or sound device must sound when firing down range for safety of spotter on the field.
8. See Safety and General Rules.

## ***Youth 10-Under Catapult Class***

1. Pumpkins must weigh no less than 2 pounds.
2. Machine shall consist of springs, cords, rubber, dead weights, or other mechanical means of creating a stored energy.
3. Youth machines must be designed so that a child of the class age can perform all aspects of the set-up, loading, and full operation of the machine. If the team youth are not able to perform all tasks the machine will be scored in the equivalent adult class.
4. A mechanical Device may be used to cock machine.
5. These Machines need a Back Stop
6. Youth in pits must be under adult supervision at all times. Example: Youth could fire machine while unattended and be injured or injure someone else.
7. Horn or sound device must sound when firing down range for the safety of the spotter on the field.
8. See Safety and General Rules.

## ***Youth 10-Under Trebuchet Class***

1. Pumpkins must weigh no less than 2 pounds.
2. Machine shall consist of swinging, or fixed counterweights
3. Youth machines must be designed so that a child of the class age can perform all aspects of the set-up, loading, and full operation of the machine. If the team youth are not able to perform all tasks the machine will be scored in the equivalent adult class.
4. A mechanical Device may be used to cock machine.
5. These Machines require Back Stops
6. Youth in pits must be under adult supervision at all times. Example: Youth could fire machine while unattended and be injured or injure someone else.
7. Horn or sound device must sound when firing down range for the safety of the spotter on the field.
8. See Safety and General Rules.

## ***Youth 10-Under Human Power Class***

1. Pumpkins must weigh no less than 2 pounds.
2. Youth machines must be designed so that a child of the class age can perform all aspects of the set-up, loading, and full operation of the machine. If the team youth are not able to perform all tasks the machine will be scored in the equivalent adult class.
3. Machines can use any kind of stored energy that can be stored by a single person in two minutes. (Energy must be stored by the power of this one person, not by other means.)
4. Contestants shall be given a maximum of (2) two minutes from the start of cocking their machine until fully cocked. The machine is then locked for safety. (This does not include the three (3) minute rule for being ready to fire).
5. Some may require Backstops due to the type of machine.
6. Horn or sound device must sound when firing down range for the safety of the spotter on the field.
7. Youth in pits must be under adult supervision at all times. Example: Youth could fire machine while unattended and be injured or injure someone else.
8. See Safety and General Rules.

## ***SAFETY AND RULES COMMITTEE MEMBERS***

2008

Chuck Burton (Chairman)

Charlie Joseph (Pit Boss)

Bill Sharp	Ray Tolson
Bill Thompson	Dawn Thompson
Ronald O'Day	Dick Simpson
Butch Street	Richard Simpson
Mark Dellinger	Steve Micciche
Clem Legates	Bill Hadder
Jace Burton	Jake Burton

**THANK YOU THE SAFETY AND RULES COMMITTEE**

## ***World Championship Punkin Chunkin Distances***

1986 Melson - Thompson	178 Ft.
1987 Melson – Thompson	300 Ft.
1988 Melson - Thompson	600 Ft.
1989 John Ellsworth	612 Ft.
1990 Ultimate Warrior	775 Ft.
1991 Ultimate Warrior	776 Ft.
1992 De Terminator	852 Ft.
1993 Under Pressure	1204 Ft.
1994 Universal Soldier	2508 Ft.
1995 Mello Yellow	2655 Ft.
1996 Q 36	2710 Ft.
1997 Universal Soldier	3718 Ft.
1998 Q 36	4026 Ft.
1999 Big 10 Inch	3695 Ft.
2000 Old Glory	4086 Ft.
2001 Old Glory	3911 Ft.
2002 2 <sup>ND</sup> Amendment	3881 Ft.
2003 2 <sup>ND</sup> Amendment	4434 Ft.
2004 Old Glory	4224 Ft.
2005 2 <sup>ND</sup> Amendment	4331 Ft.
2006 2 <sup>ND</sup> Amendment	3870.50 Ft.
2007 Big 10 Inch	4211.27 Ft.
2008 Young Glory III	4483.51 Ft.