

Tuckahoe Antique Tractor Pull Rules and Regulations

General Rules

1. ***Safety First!!*** Safety is the most important factor on and off the track.
2. No alcohol or drugs permitted.
3. Track officials make final decisions.
4. Driver must stay in the seat if tractor is running, no unattended running equipment.
5. No standing or bouncing during pull. Driver must remain seated until pull is completed.
6. Non sportsman-like conduct will not be permitted
7. Drivers must have tractor in loose chain position, transmission in neutral and hands off of controls before hooking and unhooking.
8. Tractors without wheelie bars will not be permitted to raise the front end in excess of 12 inches between the front tires and track. This distance may be determined by a gauge device.
9. All tractors must have working brakes.
10. When a driver starts the pull, if he stops because of wrong gear, spins out, chokes out, or breaks within 50 feet they may drop back to last pulling position of the class. Limited to two attempts.
11. If the first tractor of the class pulls the sled too easily (judgment of the sled operator), the sled will be readjusted, and the puller will have the choice to pull again immediately or drop to third position.
12. "Full pull"- when a tractor pulls the sled the full designated distance. If 2 or more tractors in the class complete a full pull, they will re pull in the order which they made their original pull.
13. Side boundary lines will be marked; if a tractor touches the white line the pull will be disqualified.
14. A sled operator must ride the weight transfer at all times.
15. Tractors must retain a factory appearance.
16. Officials reserve the right to inspect tractors at any time to make sure they meet requirements of safety rules.
17. After each hook, every tractor will cross scales for weight check, and hitch height check.

18. RPMS of winners of predetermined classes may be checked at the time of weighing, and hitch height verification or entire classes may be checked.

19. All pulls will be started from a tight chain, no jerking.

20. All weight classes will allow 100 lbs above the weight limit.

21. For a class to receive trophies for top three places there must be at least three tractors in that particular class.

22. All drivers must be at least 16 years of age. Those under 18 years of age must have written parental/ guardian permission.

23. All rules subject to change at the discretion of the Board of Directors.

24. *1 hook per tractor per class. Additional hooks will be classified as exhibition only and will be pulled at the conclusion of the weight class. 3 hooks per tractor per day.*

25. Weight classes may be added or removed from daily pulling order dependent upon number of tractors per class. Provisional classes may also be removed due to lack of interest.

26. Any protests made by other competitors must be made before the tractor in question has left the pulling track area. The protestor must also be competing in the same weight class and division as the protested tractor. Protestor's tractor and the protested tractor will both proceed to the scales, at that time the protestor's tractor will be checked for weight, rpm, drawbar height, weight locations, overall length, and tip bar height. Then the protested tractor will be examined. Once a tractor has entered the pit area protests about weight, rpms, or equipment will not be considered. In addition there will be a \$200 protest fee. If a tractor is protested, person making protest must pay \$200.00. If protest is correct, protestor will receive their money back; if protest is incorrect the owner of the protested tractor will receive \$200.00.

3.5 MPH Division 1

Weight classes: 3500, 4000, 4500, 5500, 6500, 7500, 8500, 9500, 11000

1. Maximum height of drawbar 20" to top of hook point, rigid in all directions (no floating), drawbars must be equipped with a 3 inch hole to hook (screw type clevis is only permissible clevis).

2. Minimum drawbar length 18" from center of axle to hitch point, with no obstructions.

3. Maximum width of tractor is 96" measured from outside of rear tires.

4. Factory fuels only, kerosene, diesel, propane, and gasoline.

5. Tractors must have factory working governors, no manual overrides or electronic rev limiters.

6. Tractors may have electronic ignitions contained within stock distributors.
7. Factory rpm's plus 10%. Fast idle maximum will be checked by photo tachometer, with throttle held in wide-open position by official. Officials have the right to remove side panels; refusal to have rpm checked will result in immediate disqualification.
8. All tractors must have working brakes.
9. Exhaust must be routed straight up unless factory routed differently. Must have cast iron exhaust and intake manifolds. No headers or tube intakes. **NO CURVED EXHAUST PIPES**
10. Tractor must have agricultural type carburetor in original position.
11. Wheelie bars are not mandatory, but are recommended. If not present 12" rule applies.
12. Shifting of TA's or similar power shift transmissions are permitted.
13. Suitcase weights and or wheel weights are permitted in Div. 1.
14. Shop built weight racks are permissible. Rear weights must not extend beyond rear tires and cannot be more than 11 feet from the center of the rear axle to the furthest forward point. All weights must be secured, if any fall off the distance will be measured from that point.
15. Tires can be one size wider than factory optional. (Original documentation required for special equipment not shown in the Nebraska Tractor Tests. No cut tires. Radial tires allowed.
16. It is recommended that all tractors, which compete regularly, be painted and presentable.
17. Tractor must have the original frame and the engine brand must be the same as what the manufacturer offered from the brand of tractor. Engine must fit onto the original bell housing with no adapters, or alterations, with no more or less cylinders than was originally supplied.
18. Tractors must be produced 1963 or older.
19. Any disputes will be settled by track officials. Their decisions are final.
20. Maximum speed limit- 3.5 MPH as checked by sled.
 - a. 1st horn Warning
 - b. 2nd horn Warning
 - c. 3rd horn Disqualified
21. Pressed steel rims allowed in replacement of cast.
22. No turbochargers, or superchargers unless factory equipped.
23. **Safety First.** Safety is the most important factor on and off the track.

5 MPH Division 1

Weight classes: 5000, 6000, 7000, 10500, 11500

1. Maximum height of drawbar 20" to top of hook point, rigid in all directions (no floating), drawbars must be equipped with a 3 inch hole to hook (screw type clevis is only permissible clevis).
2. Minimum drawbar length 18" from center of axle to hitch point, with no obstructions.
3. Maximum width of tractor is 96" measured from outside of rear tires.
4. Factory fuels only, kerosene, diesel, propane, and gasoline.
5. Tractors must have factory working governors, no manual overrides or electronic rev limiters.
6. Tractors may have electronic ignitions contained within stock distributors.
7. Factory rpm's plus 10%. Fast idle maximum will be checked by photo tachometer, with throttle held in wide-open position by official. Officials have the right to remove side panels; refusal to have rpm checked will result in immediate disqualification.
8. All tractors must have working brakes.
9. Exhaust must be routed straight up unless factory routed differently. Must have cast iron exhaust and intake manifolds. No headers or tube intakes. **NO CURVED EXHAUST PIPES**
10. Tractor must have agricultural type carburetor in original position.
11. Wheelie bars are not mandatory, but are recommended. If not present 12" rule applies.
12. Shifting of TA's or similar power shift transmissions are permitted.
13. Suitcase weights and or wheel weights are permitted in Div. 1.
14. Shop built weight racks are permissible. Rear weights must not extend beyond rear tires and cannot be more than 11 feet from the center of the rear axle to the furthest forward point. All weights must be secured, if any fall off the distance will be measured from that point.
15. Tires can be one size wider than factory optional. (Original documentation required for special equipment not shown in the Nebraska Tractor Tests). No cut tires. Radial tires allowed.
16. It is recommended that all tractors, which compete regularly, be painted and presentable.

17. Tractor must have the original frame and the engine brand must be the same as what the manufacturer offered from the brand of tractor. Engine must fit onto the original bell housing with no adapters, or alterations, with no more or less cylinders than was originally supplied.
18. Tractors must be produced 1972 or older.
19. Any disputes will be settled by track officials. Their decisions are final.
20. Maximum speed limit- 5 MPH as checked by sled.
 - a. 1st horn Warning
 - b. 2nd horn Warning
 - c. 3rd horn Disqualified
21. Pressed steel rims allowed in replacement of cast.
22. No turbochargers, or superchargers unless factory equipped.
23. **Safety First.** Safety is the most important factor on and off the track.

10 MPH Division 2

Weight classes: 3500, 4000, 4500, 5500, 6500, 7500, 8500, 9500, 10500, 11500

1. Maximum height of drawbar 20" to top of hook point, rigid in all directions (no floating), with a 3" opening or clevis (screw type clevis only).
2. Minimum drawbar length 18" from center of axle to hitch point, with no obstructions.
3. Maximum width of tractor is 96" measured from outside of rear tires.
4. Factory fuels only, kerosene diesel, propane, gasoline, or racing gas, no nitrous or anything injected.
5. Tractors must have factory working governors, no manual overrides or electronic rev limiters.
6. Tractors may have electronic ignitions contained within stock distributors, MSD and similar ignition modules allowed.
7. ***Maximum rpm for 4 and 6 cylinder engines 2500 rpms. If tractor is equipped with engine side shields, spring loaded returned throttle, back on seat, minimum of 6" high (measured from top of seat rim), maximum rpm 3000. 2 cylinder horizontal John Deere and like engines 2000 rpms. Fast idle maximum will be checked by photo tachometer, with throttle held in wide-open position by official. Refusal to have rpm checked will result in immediate disqualification.***
8. All tractors must have working brakes.

9. A. Exhaust must be routed straight up unless factory routed differently. Headers, and tube manifolds allowed. **NO CURVED EXHAUST PIPES**

9. B. Turbocharged tractors must have minimum 18" exhaust pipe above turbo, and exhaust must be cross bolted with (2) 3/8 grade 5 bolts, no more than 1" apart. **No curved pipes or rain caps.**

10. Tractor must have agricultural type carburetor in original position with same draft and number of barrels. Diesel tractors injection pump must be a maximum of one "A" line pump (German Bosch, one plunger per cylinder). No "P" series pumps. Rotary pumps allowed.

11. Wheelie bars are mandatory. See specifications page.

12. Shifting of TA's or similar power shift transmissions are permitted.

13. All weights are permissible in Div 2.

14. Shop built weight racks are permissible. Rear weights must not extend beyond rear tires, and front weights cannot be more than 11 feet from the center of the rear axle to the furthest forward point. All weights must be secured, if any fall off the distance will be measured from that point. If tractor in stock configuration exceeds 11 feet length from center of rear axle to front of tractor, front weights must be mounted in stock positioning, with front bracket **NOT** extending more than 6" from front of tractor.

15. Tire sizes are as follows: 3500, 4000, 4500- Maximum size 210 sq. in. (14.9 X 38 or 16.9 X 28). 5000, 5500, 6500, 7500, - Maximum size 18.4 X 38, 20.8 X 34, 23.1X 26. 8500, 9500, 10500, 11500 - Maximum size 20.8 X 38, or 24.5 X 32 **No cut tires, NO TOP CUTS OR MECHANICAL SHARPENING OTHER THAN FIELD AND ROAD WEAR.** Radial tires allowed. (Montgomery County Fair cut tires will be allowed in Div. 2).

16. It is recommended that all tractors, which compete regularly, be painted and presentable.

17. Tractor must have the original frame and the engine brand must be the same as what the manufacturer offered from the brand of tractor. Engine must fit onto the original bell housing with no adapters, or alterations, with no more or less cylinders than was originally supplied.

18. Tractors must be produced 1972 or older.

19. Any disputes will be settled by track officials.

20. Maximum speed limit 10 mph will apply as checked by sled.

- a. 1st horn Warning
- b. 2nd horn Warning
- c. 3rd horn Disqualified

21. Kill switches are mandatory. Switch must be mounted at rear of tractor within easy reach of hook person.

22. Tractor must have working fire extinguisher mounted within reach of the driver.
23. The sled operator has the right to stop any tractor that seems to be getting out of control.
24. Pressed steel rims, or Aluminum allowed in place of cast.
25. Side shields are recommended.
26. No turbochargers, or superchargers unless factory equipped. If tractor is turbo equipped, turbo must be completely covered.
27. ***No water injection allowed.***
28. ***Safety First!!*** Safety is the most important factor on and off the track.

Tire Sizes in Square Inches (taken from Firestone Tire Data Book)

$12.4 * 28 = 126 \text{ sq. in.}$	$13.6 * 28 = 145 \text{ sq. in.}$	$14.9 * 28 = 170 \text{ sq. in.}$
	$16.9 * 28 = 210 \text{ sq. in.}$	
$11.2 * 38 = 120 \text{ sq. in.}$	$12.4 * 38 = 140 \text{ sq. in.}$	$13.6 * 38 = 168 \text{ sq. in.}$
$14.9 * 38 = 200 \text{ sq. in.}$	$15.5 * 38 = 189 \text{ sq. in.}$	

Division 3

Weight classes: 5500, 6500, 7500, 8500

1. Maximum height of drawbar 20" to top of hook point, rigid in all directions (no floating), with a 3" opening or screw type clevis.
2. Minimum drawbar length 18" from center of axle to hitch point, with no obstructions.
3. Maximum width of tractor is 96" measured from outside of rear tires.
4. Factory fuels only, kerosene diesel, propane, gasoline, or racing fuels.
5. Tractors must have factory working governors. Electronic rev limiters are permissible, in addition to a working mechanical governor.
6. Tractors may have electronic ignitions, MSD and similar ignitions allowed.

7. Maximum rpm for 4 and 6 cylinder engines 3,000 rpms. All tractors operating above 3,000 rpms must have engine side shields, spring loaded returned throttle, back on seat, minimum of 6" high (measured from top of seat rim), steel flywheel and clutch components (no cast iron parts allowed in clutch system), flywheel protection utilizing either A current scatter blanket with six straps, minimum 17" wide SFI 4.2, or 6" X 3/8" steel surrounding the flywheel area. 2 cylinder horizontal John Deere and like engines 2000 rpms. Fast idle maximum will be checked by photo tachometer, with throttle held in wide-open position by official. Refusal to have rpm checked will result in immediate disqualification.

8. All tractors must have working brakes.

9. Exhaust must be routed straight up unless factory routed differently. Headers and tube manifolds allowed. **NO CURVED EXHAUST PIPES**

10. Tractor must have agricultural type carburetor in original position with same draft and number of barrels.

11. Wheelie bars are mandatory, bump bars recommended, will be required for 2009 season. See specification sheet.

12. Shifting of TA's or similar power shift transmissions are permitted.

13. All weights are permissible in Div 3.

14. Shop built weight racks are permissible. Rear weights must not extend beyond rear tires and cannot be more than 11 feet from the center of the rear axle to the furthest forward point. All weights must be secured, if any fall off the distance will be measured from that point.

15. Maximum tire size 18.4 X 38 or 20.8 X 34 for Turbo tractors. Non- Turbo 20.8 X 38. Cut tires allowed. Radial tires allowed.

16. It is recommended that all tractors, which compete regularly, be painted and presentable.

17. Tractor must have the original frame and the engine brand must be the same as what the manufacturer offered from the brand of tractor. Engine must fit onto the original bell housing with no adapters, or alterations, with no more or less cylinders than was originally supplied.

18. Tractors must be produced 1972 or older.

19. Any disputes will be settled by track officials.

20. Maximum speed limit will apply as checked by sled

- a. 1st horn Warning
- b. 2nd horn Warning
- c. 3rd horn Disqualified

21. Kill switches are mandatory. Switch must be mounted at rear of tractor within easy reach of hook person.
22. Tractor must have back on seat, minimum of 6" high (measured from top of seat rim)
23. Tractor must have working fire extinguisher mounted within reach of the driver.
24. Tractors must have fenders. Minimum to top of tires and wide enough to cover the driver's sides.
25. The sled operator has the right to stop any tractor that seems to be getting out of control.
26. Pressed steel rims, or aluminum allowed in place of cast.
27. Side shields are highly recommended.
28. Roll bars or roll cages recommended.
29. No turbos or superchargers unless factory equipped. If tractor is turbo equipped, turbo must be completely covered. **NO WATER INJECTION.**
30. **Safety First!!** Safety is the most important factor on and off the track.

Pro- Farm Division 4

Weight Classes: 8,500, 9,500, 11,000, 11,500

1. Maximum height of drawbar 20" to top of hook point, rigid in all directions (no floating), with a 3" opening or heavy duty screw type clevis, no pin type clevis. Minimum drawbar length 18" from center of axle to hitch point, with no obstructions.
2. Diesel Fuel ONLY.
3. Intercoolers and water injection allowed.
4. All tractors require flywheel protection utilizing either A current scatter blanket with six straps, minimum 17" wide SFI 4.2, or 6" X 3/8" steel surrounding the flywheel area.
5. Tractors must have standard block and crankcase for make and model being entered. Repower engines must use original equipment size and type injection pump for the tractor, or maximum of one "A" line pump (German Bosch, one plunger per cylinder). No "P" series pumps. Equivalent rotary pumps allowed.

6. Cubic inch limit will be 540.

A. **Turbo charger must have a 2.4" maximum inlet bore at the compressor wheel or a restrictor plate 1/4" thick with a hole no larger than 2.4" in diameter within 2" of compressor wheel.**

B. **All Tractors must have steel flywheel and clutch components. No cast iron parts allowed in clutch system.**

7. All tractors must have a cable operated engine air shut- off. Tractor must have a ring on the rear in easy access to hook to sled. Additionally shut-off must be able to be operated manually by driver while restrained in the seat.

8. All tractors must have working brakes.

9. All tractors must have side shields completely covering engine at minimum to bottom of crankshaft line. MINIMUM THICKNESS STEEL OR ALUMINUM .060.

A. There must be a firewall that separates the operator from the engine compartment with no holes other than those used for controls to pass through, with no more than 1/2 inch clearance around the item.

B. All tractors must have minimum .060 steel or .120 aluminum between frame rails under the harmonic balancer, to prevent loss of balancer from tractor.

C. Tractors with plastic or fiberglass hoods must be shrouded in turbo area with aluminum or steel, minimum thickness .060.

10. All tractors must have wide front end, front wheels must track within rear wheel path. Aftermarket or sufficient shop made front ends allowed. Shop built front axles must retain close to stock location (within 4" either direction).

11. Exhaust must be routed straight up. Factory exhaust and intake manifolds for type of engine must be used. Turbocharged tractors must have minimum 18" exhaust pipe above hood and clear top of driver's head. Exhaust must be cross bolted with (2) 3/8 grade 5 bolts, no more than 1" apart. **No curved pipes or rain caps.**

12. Wheelie bars are mandatory, see specification sheet.

13. No extended weight brackets on front of tractor. Shop built weight brackets are allowed, but front of weights must not exceed furthest point of stock weight in stock position. Front hitches may protrude beyond the front of weights, on factory, or shop built brackets.

14. Maximum tire size 20.8 X 38, 23.1 X 34 or 24.5 X 32. **No cut tires allowed.** Radial tires allowed. No alterations to front edge of bar, tread, or cleat of tires.

15. Any disputes will be settled by track officials.

16. Maximum speed limit will apply as checked by sled.

- d. 1st horn Warning
- e. 2nd horn Warning
- f. 3rd horn Disqualified

17. All tractors must have spring loaded throttles which return to idle when released.

18. Tractor must have back on seat, minimum of 6” high (measured from top of seat rim)

19. Tractor must have working fire extinguisher mounted within reach of the driver minimum 2.5 lb dry chemical, or 2 lb Haylon.

20. Tractors must have fenders between driver and any portion of rear tire. Minimum 6” horizontally at top and minimum 36” wide at top.

21. The sled operator has the right to stop any tractor that seems to be getting out of control.

22. Pressed steel rims, or aluminum allowed in place of cast.

23. **Tractors that have the same family engine that were not turbocharged may be use turbo. (Examples IH d 361 and DT361; 806 and 1206. IH D414 and DT414; 966 and 1066. JD D404 and DT404; 4010, 4020 and 4320).** If tractor is turbo equipped, turbo must be completely covered.

24. Hydraulics, rockshafts, and PTO’s may be removed for weight reasons.

25. All Tractors must have a rollover protection bar or cage that is minimally as high as the top of drivers helmet. All rollover protection devices must be connected to a minimum of 2 points to the rear axle housing. Factory style rops allowed. Must be able to lift 1 rear wheel of vehicle when pulled horizontally from the top of the bar/ cage, without damaging structure. For cage 5 point safety harness required. Roll bars, must utilize factory type seat belt restraints.

26. Driver must wear helmet with eye protection. **Fire suits are recommended.**

27. All tractors turning in excess of 2500 rpms must have belt driven fans removed. Electric fans acceptable as replacements.

28. **Safety First!!** Safety is the most important factor on and off the track.

FOR 2010 SEASON ALL TRACTORS MUST HAVE NEUTRAL LIGHT, AND NEUTRAL START SAFETY SYSTEM. ALSO IN 2010 ALL DRIVERS WILL BE REQUIRED TO WEAR FIRE SUIT (JACKET, PANTS, GLOVES).

Wheelie Bar Specifications

1. The wheelie bars must be able to support the weight of the tractor in the heaviest class pulled. To test jack up the pads at the rear, one at a time so the tractor is suspended completely off the ground, being supported only by the bar pad and front end.

2. An official will inspect the wheelie bars and drawbar while the tractor is on the scales.

3. Dimensions:

A. The front edge of the stabilizer pad cannot be further forward than the rear most portion of the tire.

B. 10" maximum height from the bottom of the pad to ground.

C. Pad size is 4 X 4 X 1/4 "thick.

1. Pro- Farm Class

a. Pad size 5" X 5".

b. Pads to be a minimum 32" rearward from the center of rear axle housing

D. 20" minimum across pads from outside to outside.

4. Division 3 and 4 ALL BARS MUST HAVE MINIMUM 12" HIGH BUMP BARS. THESE BARS MUST BE THE MOST REARWARD POINT OF TRACTOR, AND CONNECT TO STABILIZER BAR FRAME.

Height and strength of questionable wheelie bars will be checked, and tractor will not be allowed to compete until problem is corrected.

