

# **Brooksville Pulling Association Garden Tractor Rulebook** **(2013-2016)**

1. ALL drivers must be able to operate the tractor in a safe manner.
  - A. Be able to stop forward motion of their tractor at any given time with no assistance during their pull, from start flag to unhook.
  - B. Assistance can be given to hook the tractor, lock it in gear if needed; helper must leave the track before the green flag is given.
  - C. Any driver may be required to perform a driving test at the discretion of any two (2) officials at any time.
2. Chain must be tight before starting sled.
  - A. NO jerking, bouncing or shifting gears.
  - B. When you are flagged, your pull is over.
  - C. All drivers must obey the flagman.
  - D. All tractors must be switched off or placed in neutral, throttle returned to idle and driver's hands placed in the air to signal track workers it is safe to hook or unhook tractor from the sled.
3. Driver only - no riders while tractor is being driven or towed.
  - A. No tractors are to be left unattended while running.
4. Driver must wear shirt, pants and closed toe shoes while pulling.
5. Driver must be seated and at least one hand must be on the steering wheel while tractor is in motion.
6. No smoking while pulling.
7. No hot rodding on or off the track.
8. Idle speed only when not pulling.
9. A tractor not ready to hook when sled is spotted has 3 minutes to complete a pull.
  - A. Tractor can fall to the end of the order once.
  - B. If the tractor is not ready, the tractor will be disqualified.
10. Each tractor may be entered only once in each class, with the exception of youth class.
11. No entries will be taken or refunded after the start of the class. Pulling positions will be determined by track officials.
12. Any pull not past the twenty-five feet (25') mark will be allowed only one more attempt.
  - A. Second attempt is final.
  - B. Only one attempt is allowed in a pull off.
13. Any part of a tractor going out of bounds, crossing the out of bounds line or puller being flagged for any reason will stop the pull at that point. The flagman will make these determinations and is the final authority.
14. All tractors must cross the scales for weight verification before pulling. ALL tractors will be kept in the staging area until after their pull.
15. The first official measured puller in each class has the option of accepting first pull or may decline and make a second pull. The first puller in each class will NOT lose their option in the event of sled change or sled reweigh. First puller must have a legal pull before he can elect to decline. Driver must decline before sled is unhooked.

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16. All tractors must have working brakes and safe seats, tip over (wheelie) bars and hitch.
  - A. Wheelie bars shall extend no less than five (5) inches from back of rear tire and no more than five (5) inches from the ground.
  - B. Hitch must be parallel to the ground, stationary, with a 1 ½ inch opening not more than one inch from the back of the hitch and not to exceed 13 inches from the ground. No balls or clevis.
  - C. Big wheel class not to exceed fifteen (15) inches from the ground.
  - D. Exhaust, if not stock, must be discharged vertically.
  - E. Dual wheels, four-wheel drives and tire chains will not be allowed.
  - F. All clutches must have shielding and all shielding must be in place.
  - G. Hitches and kill switches must be easily accessible for hooking and unhooking.
17. Modified and Super modified classes must have a working switch on the rear of the tractor that will kill the engine and electric fuel pump if so equipped.
  - A. Each switch should have at least a three inch diameter ring for connection.
18. Maximum length of tractor and weights cannot exceed 8' from the center of the rear axle to the farthest point forward.
19. Maximum width of tractor shall not exceed 72", maximum length of tractor shall not exceed 56" axle to axle except for mini-rod.
20. All drivers must attend the driver's meeting before each pull.
  - A. Drivers are responsible to know meeting details.
  - B. No unsafe acts permitted on the track or in the pits.
21. No portion of tractor shall interfere with sled or chain.
22. Tractor must maintain original appearance.
23. All drive belts or shafts shall be covered.
24. Seats must be securely attached and safe.
25. All mower decks must be removed.
26. Any tractor deemed to be unsafe by officials prior to pulling, not inclusive of the above rules, may be disqualified and hook fee refunded.
27. Track officials reserve the right to modify rules for safety and health reasons at any time.
28. All tractors will have rear fenders, connected to the foot rest in the front to prevent driver's foot from coming into contact with tire.
29. All modified and super modified tractors are recommended to have a small fire extinguisher, but it is not required at this time.
30. Youth class: 12 years old and under at the beginning of the pulling season. (If you turn 13 years old during the pulling season, you do not have to move to the stock class during the same pulling season).
31. Electric fuel pump must be powered through kill switch.
32. If you are running alcohol, you are required to have an approved fire proof suit, gloves, shoes, fire extinguisher and helmet.
33. Tractors must be in neutral and must be pushed back to sled to hook.
34. Driver cannot unhook his own tractor.
35. All weights must be securely attached to tractor, no weights laying in seats or on floorboards.

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## Classes:

- Youth #1050
- Stock #1050 / #1250
- Sport Stock #1050/#1250
- Modified < 40 C.I.D. #1050/ #1250
- Modified Class Rules 41-50 C.I.D.
- Super Modified #1050 / #1250
- Big Wheel #1500 / #2000
- Diesel
- Mini Rod #1800 / #2000
- Exhibition

In addition to the General Rules, the following rules apply to individual Classes:

## Youth Class Rules

1. 12 years old and under at the beginning of the pulling season.
2. All drivers should wear a helmet at all times while on tractor.
3. **ALL YOUTH CLASSES MUST HAVE KILL SWITCH. ADULT MUST WALK WITH THE PULLER AND HAVE THE KILL SWITCH CABLE IN THEIR HANDS AT ALL TIMES ON AND OFF OF THE TRACK. NO EXCEPTIONS!**
4. All stock class rules apply to this class.
5. Children competing in youth class cannot pull in any other class for that event.
6. Pump gas only. No alcohol or additives.

## Stock Class Rules

1. Weights must be confined to the area between the axles.
2. Must have original type engine with horse power not to exceed 18 HP.
3. Tire size can be no larger than 26"x12"x12". Must be turf or bar tires. Cannot have AT or ATV tires. No cut tires. Stock size tires on front, no smaller than six inch rims.
4. No aftermarket, adjustable pulleys allowed. Must use stock gearing.
5. Tractor must maintain original appearance.
6. Seat must be stock in appearance.
7. Must have working governor not to exceed 4000 RPM.
8. Must have factory stock carburetor, no spacers, 1 inch max venturi.
9. Pump gas only. No alcohol or additives.
10. Must have stock muffler or vertical exhaust with no more than 10 degrees tilt.
11. No engine modifications.
12. Must have stock ignition.
13. Gas tank must be mounted under the hood or in a stock location.
14. Rear fenders must be attached to foot rest in a permanent manner so the driver's foot cannot get caught between the foot rest and rear tire. Hanging weights must be between axles.

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15. Must have working kill-switch.
16. Wheel weights, water filled tires, and hanging weights between the front and rear axles are allowed.
17. Cutch disc and spring may be upgraded; belt drive tension pulley spring may be upgraded.

## **Sport Stock**

1. Weights must be confined to the area between the axles, may use extendable weight bar in front. 18 inch max from grill to front of bar
2. Must have original type engine with horse power not to exceed 18 HP.
3. Tire size can be no larger than 26"x12"x12". Must be turf, bar or with chevron type tread. No pulling tires (Cepeks, Lawntech, etc.) No cut tires. Stock size tires on front, no smaller than six inch rims
4. May change transmission gearing, belt drives may change pulleys
5. Tractor must maintain garden tractor appearance.
6. Seat must be stock in appearance.
7. Must have working governor not to exceed 4000 RPM.
8. Must have factory stock carburetor. One inch maximum spacer on carburetor, one I inch maximum venturi.
9. Pump gas only. No alcohol or additives.
10. Must have stock muffler or vertical exhaust with no more than 10 degrees tilt
11. May change to billet rod, but must be stock length 5.3 inch
12. Must have stock ignition. May use Chevy points, no electronic ignition
13. Gas tank must be mounted under the hood or in a stock location.
14. Rear fenders must be attached to foot rest in a permanent manner so the driver's foot cannot get caught between the foot rest and rear tire.
15. No flywheel modifications.
16. Must have working kill-switch.
17. 330 lift cam shaft lift, 4000 RPM maximum.
18. Electric fuel pump is OK. Kill switch must also kill electric fuel pump.
19. Stock valve size
20. Must use stock starter
21. May move front axle forward
22. Must use stock appearing head

## **Modified Class Rules < 40 C.I.D.**

1. All tractors will have flat head engines, single or twin cylinder, maximum 40.986 C.I.D. or less
2. Cut tires/pulling tires are allowed.
3. Must maintain stock appearance.
4. Engine must be stock type and not to exceed 18 HP.
5. Opposed cylinder or flat head only. No overhead valves.
6. Engine RPM is unlimited, but must have a steel or aluminum billet flywheel if over 4000 RPM.

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7. Must use garden tractor transmission and rear end or transaxle assembly. Must remain factory stock in appearance.
8. Carburetor must be stock in appearance with no more than 1.2 inch venturi.
9. Engine modifications are limited by cubic inch limit
10. Billet heads and any ignition system are allowed.
11. Any cam shaft is allowed.
12. Must be naturally aspirated, no blowers or turbos.
13. All tractors will have dead man throttle.
14. Hanging weights are allowed. May not be past the rear of the rear tires
15. Each tractor will be equipped with a switch that will kill the engine and turn off the electric fuel pump if so equipped.
  - A. The switch will be located on the rear of the tractor within six inches left or right of center.
  - B. Each switch should have at least a 3 inch diameter ring for connection.
16. Racing fuel is allowed
17. If running alcohol, driver must have fire suit, complete with shoes and gloves.

## **Modified Class Rules 41-50 C.I.D.**

**Same as 40 inch except for cubic inch**

## **Super Modified Rules - 1 and 2 cylinder OHV**

1. All garden tractors will use a garden tractor transmission and rear end or transaxle assembly but maintain factory stock appearance.
2. Must have a hood and grill.
3. Frame type is open. Altering is allowed as long as it is safe.
4. No part of any tractor may exceed 5 feet in width or length greater than 8 feet from the center of the rear axle.
5. The maximum tire size is 26"x12"x12". Any type of tire is acceptable. No wheel weights are allowed.
6. Each tractor will be equipped with a switch to kill the engine and turn off the electric fuel pump, if so equipped. The switch will be located on the rear of the tractor within six inches left or right of center. Each switch should have at least a minimum 3 inch ring for connections.
7. Weights must not extend past the rear of the rear tire.
8. Engines must be flat head single cylinder original type or faithful reproduction
9. Flat head, single cylinder engines are limited to 50 cubic inches.
10. Flat head, twin opposed cylinder engine, limited to 55 cubic inches.
11. Engine RPM is unlimited, but engine must have a steel or aluminum billet flywheel.
12. **NO CAST IRON FLYWHEELS**
13. Tractors must have a dead man throttle.
14. Carburetion is unlimited, but only one naturally aspirated single barrel carburetor is allowed.
15. All flywheels and clutches must be covered by 1/8" steel or 3/16" aluminum.

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16. Tractors must be front engine and 2 wheel drive.
17. Pump gas or alcohol allowed, no additives

## **Super modified**

### **Follows the same basic rules as modified with noted exceptions**

1. Carburetion is unlimited, but is a maximum of two barrel
2. Maximum cubic inch is 48 for v twin, 50 for single flathead, and 55 for flathead twin, and 45 for overhead single cylinder.

## **Big Wheel Class Rules**

1. Tires may exceed 26"x12"x12".
2. Engine must not exceed 20 HP factory rated.
3. Hitch height maximum 15" from the ground.
4. Pump gas only. No alcohol or additives.

## **Diesel**

1. Follows National Quarter Scale rules.

## **Mini Rod Class Rules**

1. A mini rod is a custom built pulling tractor using an automotive engine, transmission and rear axle.
2. All mini rods must be rear wheel 2 wheel drive
3. All mini rods will be designed and built to operate as safely as possible.
4. A farm tractor appearance is preferred.
5. There will be two weight classes, 1800 and 2000 pounds; this is total weight of all combined components and including driver.
6. It is recommended that all mini rods will be towed to and from track. IDLE SPEED ONLY ANY PLACE OTHER THAN ACTUAL TRACK. Violation of this will result in tractor going on trailer and no hook fee refund.
7. The maximum wheel base will be 96 inches from the center of the rear axle to the farthest point forward and includes angled bumpers, tow hooks or hanging weight.
8. The maximum width will be 72 inches at any point.
9. There will be no weight (hanging or fixed) to the rear of the rear tires.
10. Each machine will have 2 wheelie bars, one on each side of the tractor, with a minimum of 24 inches separation, and be capable of supporting the weight of the tractor with the front end off the ground. Each bar will have a wheel, minimum of 6 inches in diameter and 1 inch wide, or a pad of at least 16 square inches (4x4), a minimum of 19 inches behind the rear tire and 5 inch maximum off the ground.
11. All wheelie bars will have a vertical bump stop on the rear at least 8 inches tall to prevent sled from climbing the bars in case of quick tractor shut down.

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12. All will have a kill switch located no more than 6 inches from the centerline of the rear and high enough to be easily accessible. This switch will be able to kill the engine, fuel pump and shut down any electrical devices near the driver.
13. All will have a fire extinguisher mounted on the right hand rear of the safety cage.
14. All will have a hand operated dead man throttle mounted on the right side.
15. All drivers will wear a fire suit and helmet including boots and gloves.
16. Tractor will have fenders on rear tires covering at least 75% in width and past the driver on top.
17. All will have a hitch made of steel no less than 0.375" thick with minimum hole of 1.5. Hitch will be constructed so that it is easy to see and hook. Hitch is to be rigid in all directions and will be horizontal. No part of the tractor may interfere with hook or chain.
18. All will have a safety switch to prevent cranking the engine in gear. There will be a light mounted on the rear, a minimum of 36" above the ground which will light when gear is in neutral to signal track personnel to know it is safe to hook the sled.
19. Each tractor will be allowed 1 crewman on the track to assist with backing and hooking. No signals can be given to the driver after the hook is in place.
20. All must have a roll cage. Minimum requirement is 4 point with double loop.
21. All must have a minimum 4 point seatbelt system.
22. Engine must be naturally aspirated, no blowers, turbo, fuel injectors or nitrous oxide. Carburetion can be any combination, but is limited to 4 venturi.
23. Intake manifolds can be commercially available or custom made.
24. Exhaust may be up, down or to the rear (up is the most desired; less dust and dirt for sled operator).
25. Engines must be equipped to prevent excess fluids from leaking onto track, or staging area.
26. Maximum engine size will be 350 cubic inch and of small block design. You may use 8-6-4 cylinder engines, but only 1 engine per frame.
27. Engine must have hydraulic camshaft and lifters.
28. Gas or alcohol for fuel. **NO ADDITIVES ABSOLUTELY NO NITRO METHANE, THIS WILL BE GROUNDS FOR PERMANENT SUSPENSION.**
29. Harmonic balancer will be covered by a minimum of ¼ inch steel and be designed to prevent the balancer from coming off.
30. Engine will have a ¼ inch steel plate 6 inches mounted on frame (or other solid place) the entire length of the block to cover the oil pan on each side to prevent loose parts in case of explosion.
31. All engines are to be rigid mounted.
32. No aluminum blocks or heads.
33. Standard shift or automatic transmissions are allowed. Standard shift transmission must have explosion proof bell housing or flywheel and clutch assembly.
34. Automatic transmissions must have explosion proof blanket.

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35. All drive shafts will be completely covered (360 degrees) **THERE WILL BE NO EXCEPTION TO THIS RULE.** We also recommend the use of stronger u-joints and u-joint caps.
36. All transmissions will be equipped to prevent the engine from starting in gear.
37. We do not recommend shifting gears during a pull, but if you do so and jerk or snatch the sled during the pull you will be disqualified for the rest of the day.
38. Only one transmission per frame.
39. Maximum tire size is 31.50"x15.50"x15".
40. Max wheel width is 15 inches.
41. May use any combination on the front, you must have 2 tires. No tricycle front ends.
42. You may use any type of tire as long as it safe.
43. Must have brakes on both rear wheels.
44. No locked or spool rear ends.
45. Hitch will be no higher than 13 inches on V-8's, 14 inches on 6 cylinder, and 15 inches on 4 cylinders.
  - A. (This is an attempt to make everything even and fair. This will be up to the track officials and can be changed when needed.)