

Western Iowa Garden Tractor Pullers

2020 Pulling Rules / Regulations



Western IA Garden Tractor Pullers

www.wigtpulling.com

Officers

President: David Smith **Vice President:** David Rehm
Treasurer: Joe Fitzpatrick **Secretary:** Mike Beaman

Directors

Dave Beaman Michael Renz
Wendy Holliday-Lakas Bill Lakas
Dillon Jackson Madison Beaman

Membership

Any paying person 18 and over will be considered a club member.

Hook fees will be \$13.50 per hook

A paid membership will receive the benefit of being covered under the corporation's spectator liability insurance policy.

All paid members 18 or older are entitled to 1 vote each on class specific rules in the class they pulled the previous season, all general tractor rules, proposed bylaw revisions, and election of directors. Parents of 1 or more children under the age of 18 will have 1 vote total. A separate vote for each child will not be valid.

A puller must pull in at least ½ of the hooks to be able to vote on a class specific rule change.

There must be at least 3 members in a class in order for a rule change to be discussed and voted on.

Season Points Championship

The season's championship points are awarded to the tractor and not the driver. Multiple drivers may pull the tractor, but the points go to the tractor. When starting the season decide on a name for the tractor and don't change it during the season, as ~½ of the points will be for one tractor name and ~½ for the other name. Multiple tractors with the same name, same class is not allowed.

All WIGTP events on the schedule are point's pulls.

Tractors must attend at least ½ of the events to be included in the season's point's championship.

Final scoring will use the bottom 25% of the events for the season for each tractor.

All members' tractors are included unless they have opted out.

Points are awarded as follows: 1st = 10 points, 2nd = 9 points, etc, 10th = 1 point, 11th and below = 0 points.

If a tractor is disqualified, that tractor will receive last place points for that hook.

A tractor experiencing breakage in the light class round which renders it unable to pull in the heavy class round will receive last place points in the heavy class provided they have paid the entry fee, don't scratch off the list and remain present for the heavy class pull.

Tie breakers will be determined by the tractor with the most 1st places. If there is still a tie then the greatest number of 2nd places will be used and so on.

If a tractor fails a General Protest, that day's event for that tractor must be included in the Points Championship and cannot be dropped from the points calculations.

Event / Driver Rules: All Drivers

Arguments, tempers, or whining displayed at an event are means for disqualification.

Only the drivers and pit crew will be allowed in the pit area.

All tractors must complete an equipment and safety inspection before they will be allowed to pull. If your tractor has not completed the inspection or has failed some part of it, arrive two hours ahead of the event start time to have an inspection done or rechecked. Items that will be checked are listed in Tractor Safety Rules.

Each driver will operate their tractor in a safe and responsible manner at ALL times. Drivers must be old enough and physically able to operate the entire tractor (clutch/throttle). If they are unable to operate the tractor solo, then they must have an adult guardian walk down the side of the track with them to help assist starting pull and stopping pull. Adult assistant cannot touch tractor while pulling, if so, distance is measured at that point.

Careless driving in the pit area or along the track at anytime will result in disqualification for that pull.

Signup will start 1 ½ hours before event start time and will run up until ½ hour before event start.

No late signup allowed.

Sign up will consist of rolling a dice to determine sign in position and pulling order. If more than 6 pullers in the class 2 dice will be used.

All drivers will sign a waiver of liability. If driver is under 18 the child's adult guardian must approve and sign.

There will be a driver's pit meeting 30 minutes before each event. All drivers are required to attend.

Tractors will be weighed and hitch height measured before they line up to hook to the sled. When weighing, the driver must be sitting on the seat.

Sled operator(s), tech officer(s), and/or safety committee will decide whether a tractor will be allowed to pull, and reserve the right to reject any tractor from pulling.

If the sled operator thinks a pull is unsafe or the pulling tractor is out of control, the operator can engage the sled brake at any time. If the tractor has stayed in bounds the pull is measured at that point.

Drivers must have at least one hand on the steering wheel at all times; keep both feet on the footrests; remain in contact with the seat at all times. Drivers will be allowed to lean forward or backward and side to side to make adjustments.

All pulls must start from a tight chain.

Any driver starting to pull without the green flag will be disqualified.

Drivers must stop immediately when signaled with the red flag.

The flag person's decision is FINAL.

A puller may have more than one tractor in the same class.

Tractors will be allowed one pull per class with a maximum of 2 pulls per event, with the exception of the Sportsman class. There will be unlimited hooks in the Sportsman class only.

Two minutes maximum time will be allowed to hook to the sled. If a breakdown occurs and cannot be fixed in the allotted time, the tractor can drop to the last position to pull in that class.

If the track has a floating finish, there is no out-of-bounds where the end of the track extends beyond chalk lines or described borders.

Out of bounds markers will be chalked or described at the pit meeting. If a tire touches or crosses the out of bounds mark past the 75 foot re-pull marker the pull will be disqualified and you will not be allowed to re-pull. If you are within the 75 foot marker you can re-pull unless it is your second attempt. (For faster tractors) If you are within the 75 foot marker and drifting out of bounds, you must notify the flag person by raising one hand prior to crossing the 75 foot marker.

Any weights, wheels, or safety equipment lost from tractor while hooked to sled will be cause for disqualification.

No shifting gears while the tractor is pulling, except variable speed belts and hydros may be increased or decreased.

There will be no super tuning except in the pit area.

In the event of a tie where 2 or more tractors receive exactly the same measured pull distance.

All tied tractors must approve to re-pull for a tie breaker. If not, all points and benefits will be split between the tractors.

If the pull distance measuring device malfunctions or was not reset correctly to achieve an accurate reading, the tractor would need to re-pull and receive an accurate pull distance. The tractor can re-hook to the sled and re-pull or fall to last place in their class to re-pull. 10 minutes allowed for cooling on open RPM tractors.

The purpose of this rule is to not judge distance from track marks and acquire an accurate distance.

You may position the sled in any side to side location at the start line. A cone will be provided, and you must place it in the center of where you want the sled to be. **CONE MUST BE PLACED BEFORE THE SLED STARTS IT'S RETURN FROM THE PREVIOUS PULL.** If not, sled will return to the center of the track and will not be allowed to reposition.

The first driver in each class as indicated by the roll of the dice upon sign in will have the option to repull at the last position in the class.

Event / Driver Rules: Open RPM Tractor Drivers

Driver must wear helmet that meet minimum Snell 95 requirements. No football, baseball or toy helmets.

Driver must wear long pants and boots. No sandals or open toes.

Driver must wear full fire suit if tractor is running methanol.

Tractor Safety Rules: All Tractors

All tractors must complete an equipment and safety inspection before they will be allowed to pull.

All tractors must have sufficient device to prevent the tractor from turning over, Wheelie Bars. Either skid plates or dolly wheels must be used, one on each side of the drawbar. Wheels must be at least 3 inches in diameter and 1 inch wide. Skid plates must be at least 3 x 3 inch square. Front edge of wheel or skid plate must be at least 5 inches from the back edge of the tire. Bottom of wheel or skid plate must not be more than 5 inches above the ground. No part of the wheelie bar device can interfere with the sled chain. Wheelie Bar Rule to be Strictly Enforced. **No Bars = No Pull!**

Kill switches required in all classes. All tractors will be required to have a rear mounted safety kill switch that kills engine and electrically disables electric fuel pump.

Tractor will have a fuel shut-off between the tank and engine.

Tractor fuel lines must be kept away from hot engine components.

Tractor will have a battery restraint device that safely keeps battery in place.

Tractor must have a workable brake.

Tractor must have rear fenders, 4 inch minimum width, designed to keep the operator free from the tire.

Tractor will have a factory throttle set-up or dead man throttle, being closed in rearmost position, except open RPM tractors which **MUST** have a dead man throttle. Locking of throttle position is **NOT** allowed.

Any engine that has a pulley on the pto end of the crankshaft must have a bolt and washer in place to prevent the pulley from coming off the end of the crank should it come loose. Pulleys on open rpm tractors must be billet steel or billet aluminum, no pressed steel or cast iron pulleys allowed on open rpm tractors.

Clutch covers and flywheel shields are required.

Tractor Safety Rules: Open RPM Tractors

Must follow Tractor Safety Rules: All Tractors listed above.

Bumper bars are required. These are a vertical bar at least 6" long mounted on rear most part of wheelie bars. Vertical bumper bar must be even with or behind back face of wheelie wheel or skid.

Clutch covers and flywheel shields are required. Minimum thickness 1/8 inch steel or 3/16 inch aluminum.

Driveshaft must have a support bearing in the center or driveshaft loop.

No rpm limit but steel flywheels are REQUIRED.

Engines must have a hold down restraint installed to prevent the cylinder and head from separating from the block.

Singles: Engines must have a scatter shield opposite the cam side of the motor. Minimum thickness 1/8 inch steel or 3/16 inch aluminum. It must cover the full height and width of block and be attached in a secure manner to the frame and head.

Twins: Engine must shielded by 1/8 inch steel or 3/16 inch aluminum on external side of cylinders extending from head gasket to frame. Shield must be attached to frame at the bottom and to flywheel shield at the top to make rigid.

Singles: No starter-generators allowed. Must use ring gear starter or starter-cart.

Tractors must have WORKING kill switch fastened to the rear of the tractor in such a way that it does NOT interfere with weights or sled hitching device. The connector must be fitted with a ring with a minimum of 1.5" inside diameter.

A minimum 1 1/2 pound dry chemical working fire extinguisher or equivalent. A gauge on the fire extinguisher is required or an inspection and recharge tag not more than two years old. They can either be dry chemical or CO₂-type extinguishers.

Tractors must have dead man throttle with return springs on the pedal and the carburetor.

General Tractor Rules: All Tractors

Maximum drawbar height for all classes will be 13 inches from level ground to the top of the drawbar. Top drawbar height tolerance is 0 inches. Minimum drawbar length is 6 inches from center of rear axle to point of hook and cannot be adjustable to less than 6 inches. The drawbar hook point must have a diameter no less than 1 1/2 inches and no more than 2 inches and be made of at least 3/8 inch plate material. The hole must not be more than 3/4 of an inch forward from the back edge of the drawbar. The drawbar must be stationary of all movement and be parallel to the ground. An area 5 inches wide (2 1/2 inches on either side) of the center of the hitch point and 12 inches high (6 inches above and below) the center of the hitch point must be free of all obstructions. No clevises allowed.

Tractor mower decks, loaders, or other hang-on accessories must be removed.

No duals, chains, steel wheels (instead of tires), tracks, or studded tires will be allowed.

Tractors must have wide front ends, wheels at least 24" apart or stock width, no four wheel drive tractors allowed.

Exhaust must be discharged vertically unless stock type muffler is used. All exhaust, including mufflers, must be routed to minimize dust being blown.

Tractors will have an ignition shut-off switch convenient to the driver other than the safety kill switch.

At each event for all classes there will be a light class round followed by a heavy class round. Each tractor plus driver can weigh up to the weight for that class round but not over. Weight tolerance is 0 pounds. Weights must be stationary of all movement.

Maximum forward length of the tractor is 96 inches measured from the center of the rear axle forward.

No part of any weight will extend more than 24 inches behind center of rear axle.

May strengthen drive train to prevent breakage. (Reared, driveshaft, clutch, etc.) Altering gear ratios is allowed.

No nitrous oxide, nitrous methane, or equivalent oxygen enriched fuels or additives allowed. No propane or any pressurized fuel tanks allowed.

Classes:

At All events, We will pull Light Class Round 1 - 20, Intermission to re-dress track, Then Heavy Class Round 1 - 21 except 17-20

Pull Order	Class	Max RPM	Light Class Weight Limit	Heavy Class Weight Limit	Max Drawbar Height	Max Wheel Base	Max Tire Size	Tire Type
1	Sportsman 1	4250	1000 lb	1050 lb	12.5' for 26' tires 13" for smaller	Factory	26 x 12 x 12	No cuts of any kind
2	Sportsman 2	4250	1000 lb	1050 lb	12.5' for 26' tires 13" for smaller	Factory	26 x 12 x 12	No cuts of any kind
3	0 - 11Hp Stock Clutch	4250	1000 lb	1050 lb	13"	52 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding Bars Allowed
4	0 - 14Hp Stock Belt/Hydro	4250	1000 lb	1050 lb	13"	52 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding Bars Allowed
5	12 - 14Hp Stock Clutch	4250	1000 lb	1050 lb	13"	52 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding Bars Allowed
6	Stock Diesel	4000	1100 lb	1150 lb	13"	Front most	26 x 12 - 12	Bar Tires,

						part of frame		V-Cuts, Adding Bars Allowed
7	15 - 20Hp Stock Belt/Hydro	4250	1000 lb	1050 lb	13"	52 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding Bars Allowed
8	15 - 16Hp Stock Clutch	4250	1000 lb	1050 lb	13"	52 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding Bars Allowed
9	17 - 20Hp Stock Clutch	4250	1000 lb	1050 lb	13"	52 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding Bars Allowed
10	25Hp Stock Clutch	4250	1000 lb	1050 lb	13"	52 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding Bars Allowed
11	5000 Govenor V-Twin	5000	1000 lb	1050 lb	13"	52 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding Bars Allowed
12	Hot Stock Twin	Open	1000 lb	1050 lb	13"	52 inches	26 x 12 - 12	Bar Tires, V-Cuts,

								Adding Bars Allowe d
13	Sport Stock Twin	Open	1000 lb	1050 lb	13"	52 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding Bars Allowe d
14	Pro-Lite (Missouri Super Stock)	Open	1000 lb	1050 lb	13"	56 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding Bars Allowe d
15	Stock Altered Single	Open	1000 lb	1050 lb	13"	52 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding Bars Allowe d
16	Pro Stock Diesel	Open	1100 lb	1150 lb	13"	56 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding Bars Allowe d
17	Stock Altered Twin	Open	1000 lb		13"	56 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding Bars Allowe d
18	Pro Stock Single	Open	1000 lb		13"	56 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding

								Bars Allowed
19	Super Stock Single	Open	1000 lb		13"	56 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding Bars Allowed
20	Pro V Twin	Open	1000 lb		13"	56 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding Bars Allowed
21	PST	Open		SA TWIN 1000 lb PS SINGLE 1075 lb SS SINGLE 1020 lb PRO V 1000 lb	SA TWIN 12.25" PS SINGLE 13" SS SINGLE 12.5" PRO V 12"	56 Inches	26 x 12 - 12	Bar Tires, V-Cuts, Adding Bars Allowed
	Over RPM Tolerance 0		Over Weight Tolerance 0 Pounds			Over Drawbar Height Tolerance 0 Inches		

Stock Rules: Classes #1-5, 7-10 (Stock Diesel listed below)

All general and safety rules apply.

Age: No driver age restriction.

Engine: All Engines

Cam must have stock lift. Must have stock valve diameter. No piston pop outs allowed. No porting or polishing. Copper head gaskets are allowed.

Stock Flat Head Engines

Stock stroke for make and model being entered. Stock bore for make and model being entered with max .030 over bore. Cylinder head can be milled but must maintain gasket outline.

Stock Overhead Valve Engines

Stock stroke for make and model being entered. Stock bore for make and model being entered with a max .030 over bore. Must use stock OEM pistons with dish. All engine components must be "stock" or "stock type" parts. The part may be from

another manufacturer, but all specifications of that part must be the same as the OEM original. Pushrod guide plates allowed on OHV twins.

Carburetor: Stock *OEM carburetors only and must NOT be altered. Note, using a 14 hp carburetor on a 12 hp motor is allowed due to the class being 12 to 14 hp. *OEM = Original Equipment Manufacturer.

Engine RPM: Must be governor controlled. Maximum rpm limit 4,250 rpm. No tolerance allowed.

Fuel: Must run service station pumped gasoline, no additives. Ten (10) percent ethanol allowed. No E85. Electric fuel pumps are allowed.

Tires: 26 x 12 - 12 max. Bar tires and professionally made pulling tires such as Cepeks, Pit Bulls, Lawntecs, etc are allowed. May sharpen bars tires. Adding of bars, such as double cutting, is allowed.

Weight Classes: 1000 lb / 1050 lb

Chassis: 52" wheelbase maximum. Stock frames are required. Tube front axles are allowed. Must have hood and grill, use factory transmission, internal modifications are allowed.

Sportsman Rules: Classes #1 & #2

All general safety rules apply.

If a tractor is noticeably built as a pulling tractor it will be removed from the Sportsman class and placed into the correct class. This class is intended for entry level stock tractors only. No cam regrinds, no head modifications, no super tuning. Specific stock parts for the specific stock motor.

Age: No driver age restriction.

*Unlimited number of hooks in these 2 classes only

Class #1 will be limited to 18hp and under single engines and opposed twin cylinder engines. *not including V-twin configuration

10.5" tires will run a 13" drawbar height

26" tires will run a 12.5" drawbar height

Class #2 will run up to 25hp V-twin and below engine configuration.

10.5" tires will run a 13" drawbar height

26" tires will run a 12.5" drawbar height

Weight Classes: 1000 lb / 1050 lb

Chassis: Factory wheelbase, stock frames are required. Must have hood and grill, use factory transmission, and must have working reverse, wheelie bars, and safety kill switch.

If a tractor is noticeably built as a pulling tractor it will be removed from the Sportsman class and placed into the correct class. This class is intended for entry level stock tractors only. No cam regrinds, no head modifications, no super tuning.

Stock Rules: Classes #7 and #8 Allowances (17 - 20Hp and 25Hp Stock Clutch)

Stock Rules: Classes #1-3, 5-8 stated above must be followed, with the following exceptions.

Carburetor: May use vertical shaft series intakes with a carburetor adapter. May have adjustable needle added.

Chassis: Not required to have working reverse.

Stock Diesel Rules: Class #6

All general and safety rules apply.

Age: No driver age restriction.

Engine: Factory up to 3 Cylinder air or liquid cooled diesels. (No cut down 4 cylinder engines)

75 cubic inch limit, No overhead cam engines. Stock bore and stroke, cylinder must not exceed 0.030" over the original bore diameter. Stock valve diameters only for block being used. Porting and polishing is not allowed. Stock head for

engine make and model, no external welding except for repair. Fuel pump and injector modifications are allowed but must be original to the block. No forced induction such as turbos, superchargers, etc. Stock *OEM intake. Air cleaner and filters optional.

Engine RPM: 4000 rpm maximum, tractor must be equipped with a working tachometer.

Fuel: Diesel only, on road or off road fuel is allowed, no additives. No propane or nitrous.

Tires: 26 x 12 - 12 max.

Weight Classes: 1100 lb / 1150 lb

Chassis: Tractor must use stock garden tractor type frame, only modification for engine change allowed. (side shields must be a minimum of 1/16" steel or 1/4" aluminum). Wheelbase may be extended but is limited to the front most part of the frame. The frame may not be stretched in any way. The frame may be modified for motor fitment. Tractor must have hood, grill, and side panels. Tractor must have stock rear-end of a lawn and garden type. Transmission gear ratio changes allowed. No planetaries allowed.

Safety: Exhaust must exit up (stock exhaust manifold or custom allowed)
Kill switch must shut off electric fuel pump and shut down the injection pump. Flywheel and clutch must be shielded 360 degrees with 1/8" steel or 1/4" aluminum.

5000 Governor V-Twin Rules: Class #11

All general and safety rules apply.

Age: No driver age restriction.

Engine: 30 Hp block Maximum. Must be garden tractor block. No recast, billet or plated heads. No welding on outside of heads. Putty permitted. Must use steel flywheel, No cast flywheels allowed.

Carburetor: 1.200" Venturi max. Single or two barrel carbs permitted. Stock manifolds only – 2 barrel, plastic, horizontal or vertical. Must have factory part number. No homemade plenums. Carb/manifold spacers permitted. No fuel injection allowed.

Engine RPM: Must be governor controlled. Maximum rpm limit 5,000 rpm. No tolerance allowed.

Fuel: Must run service station pumped gasoline, no additives. Ten (10) percent ethanol allowed, No E85. Electric fuel pumps are allowed.

Tires: Any 26x12-12 tire allowed.

Weight Classes: 1000 lb / 1050 lb

Chassis: Maximum 52" wheelbase. Must have hood and grill, use factory transmission and stock garden tractor frames.

Hot Stock Rules: Class #12

Stock Rules: Classes #1-3, 5-8 stated above must be followed, with the following exceptions.

Age: Driver must be at least 12 years of age and must be physically capable of being in full control of the tractor at all times.

Engine: Open RPM, 17-25hp stock block. Stock head, no porting or polishing. Can use aftermarket rods or crankshaft. Must be stock length, no flat top pistons. Solid lifters, no rollers. MWSC style adjustable rockers and aluminum head inserts allowed. Stock or stock replacement valves and springs only.

Carburetor: May use vertical shaft series intakes with a carburetor adapter up to 1" venturi. May have adjustable needle added.

Safety: Rules for open RPM tractors must be followed

Fuel: Must run service station pumped gasoline, no additives. Ten (10) percent ethanol allowed. No E85. Electric fuel pumps are allowed.

Weight Classes: 1000 lb / 1050 lb

Chassis: Not required to have working reverse. Maximum 52" wheelbase

Sport Stock Twin Rules: Class #13

All general and safety rules apply.

Age: Driver must be at least 12 years of age and must be physically capable of being in full control of the tractor at all times.

Engine: Stock engines (block, stroke, heads, intake manifold, and carburetor). No dome pistons allowed. Engine size must not exceed 39.08 cubic inches (allows for .040" overbore) for ohv motors or 48 cubic inches (allows for .020 overbore) for flatheads. Interchanging parts between different brand motors WILL NOT BE ALLOWED.

No two-barrel manifolds and no aftermarket manifolds allowed. Vertical intake carb adapter is allowed.

Cutting or welding on manifold is not allowed. No reverse port engines allowed. Manifolds and carburetor must go to the original stock ports. Stock heads may be reworked, but recast or aftermarket heads are not allowed. Porting and polishing allowed. *OEM closed chamber heads are allowed. No external welding or other external modifications allowed. Must use stock intake and exhaust bolt pattern and location. Engines must use stock lift cams, stock length valves, and stock rocker arms. Pushrod guide plates allowed on OHV twins. Aftermarket lifters are allowed but must be flat tappet, no roller lifters.

Engine must have been available in a lawn or garden tractor from an *OEM manufacturer not to exceed any other rules such as horsepower, cubic inch, cylinders, or class size rules, etc., and must be *OEM stock production garden tractor engine. Aftermarket blocks are not allowed. It is up to the tractor owner to provide documentation to prove eligibility, such as *OEM tractor manufacturer, tractor model, and engine specs such as cylinders, cubic inch, and horsepower rating. Aluminum Valve Covers Allowed.

Carburetor: Stock downdraft carburetor may have adjustable needle added. May rework carburetor, Max 1.00" venturi. *OEM accelerator pump carburetor is allowed. No other types of carburetors allowed. Maximum one (1) carb with (1) venturi allowed. No turbos or pressurized intakes.

Fuel: Must run service station pumped gasoline, E10 or E85 or equivalent, no additives. Racing gas is allowed.

Tires: 26 x 12 - 12 max. Bar tires and professionally made pulling tires such as Cepeks, Pit Bulls, Lawntecs, etc are allowed. May sharpen bars tires. Adding of bars, such as double cutting, is allowed.

Weight Classes: 1000 lb / 1050 lb

Chassis: Maximum 52" wheelbase. Must have hood and grill, use factory transmission and stock garden tractor frames.

Pro-Lite (Missouri Super Stock) Rules: Class #14

All general and safety rules apply.

Age: Driver must be at least 12 years of age and must be physically capable of being in full control of the tractor at all times.

Engine: Flathead engine with stock appearing block.

Maximum bore 3.830", Maximum stroke 3.25", 37.7 cubic inches maximum.

Open valve size, Billet heads allowed.

Carburetor: Stock appearing Kohler-type carburetor with a maximum venturi of 1.200". No air entering after the 1.200" air restriction, Venturi must be round in shape. No slides, no injection, naturally aspirated only.

Standoff pipes or ram tubes are permitted.

Fuel: Alcohol or gasoline is allowed, No Nitrated or Oxidized fuels allowed.

Tires: 26 x 12 - 12 max. Bar tires and professionally made pulling tires such as Cepeks, Pit Bulls, Lawntecs, etc are allowed. May sharpen bars tires. Adding of bars, such as double cutting, is allowed.

Weight Classes: 1000 lb / 1050 lb

Chassis: Maximum 56" wheelbase.

Stock Altered Single Rules: Class #15

All general and safety rules apply.

Age: Driver must be at least 12 years of age and must be physically capable of being in full control of the tractor at all times.

Engine: Single cylinder four cycle flathead engines only and must be Kohler, Wisconsin, Tecumseh or Briggs. Engine blocks must have an *OEM stock appearance and must be factory productions or their *OEM replacement with factory deck height. No Woolam or J2 blocks allowed. Stock Head bolt pattern, location and size. Stock head gasket must fit over studs or bolts. Maximum crankshaft stroke 3.25" and engine bore 3.780". Maximum 0.010" measuring tolerance, must not exceed 36.5000 cubic inch limit. Maximum engine valve size 1.380" with maximum 0.001" measuring tolerance and maximum engine valve lift .330" with maximum 0.003" measuring tolerance.

No reverse port engines allowed, carburetor must go to the original stock intake port.

Billet heads permitted with minimum one (1) inch thickness.

Porting and polishing allowed.

Carburetor: Maximum carburetor venturi size 1.00", no air entering after 1.00" restriction. Venturi must be round in shape. Note, this is referring to the venturi, not the butterfly bore. Carburetor must be a stock appearing Kohler-type and must be mounted to the engine with no more than 1" long spacer. No turbos or pressurized intakes.

Fuel: Must run gasoline, E10, E85 or equivalent, E99, racing gas or methanol only; no additives.

Tires: 26 x 12 - 12 max. Bar tires and professionally made pulling tires such as Cepeks, Pit Bulls, Lawntecs, etc are allowed. May sharpen bars tires. Adding of bars, such as double cutting, is allowed.

Weight Classes: 1000 lb / 1050 lb

Chassis: Maximum 52" wheelbase. Must have hood and grill, use factory transmission and stock garden tractor frames.

Limited Pro Stock Diesel Rules: Class #16

All general and safety rules apply.

Age: Driver must be at least 15 years of age and must be physically capable of being in full control of the tractor at all times.

Engine: Engine must be commercially produced with at least 1000 units built. Engines may be no more than 3 cylinders. May be liquid or air cooled. Engine block must have factory casting model and serial numbers visible and not ground off. Ag or industrial engines only; no automotive or motorcycle engines. Engine will be no more than 70 cubic inches. No cut down 4 cylinder engines allowed. This is based on the factory casting numbers. No sleeving down or de-stroking larger engines. Water injection will be allowed. Must be plain water only. Combustible agents (alcohol, oxygenators) are NOT allowed in water injection. Soluble oil lube additives are permitted. Engine modifications are permitted = Rods, Postons, Cam, Fuel system. Engine must have *OEM intake manifolds and exhaust manifolds, polishing is permitted. No tube headers or intakes. Head work is permitted on stock *OEM heads. No Billet heads. No overhead cams. Must be indirect injection. No converting from direct to indirect. Injectors must remain in stock location. Injector and injector pump modifications allowed. No Billet injector pumps. Must be "Cam Box" or "PFR" injection pump. No electronic or common rail injection systems. Turbo charging is permitted, but limited to a single turbo only. Turbo will be fitted with a shut down guillotine on the compressor inlet side of the turbo. Exhaust "L" of turbo must have minimum of 5/16 cross in elbow with exhaust to discharge vertically. Electric fuel supply pump is permitted with positive power wire to have shut off disconnect at rear of tractor. No propane, nitrous injection or any type of secondary fuel system of any kind will be permitted. All tractors must be compression ignition and use Diesel fuel only. No spark plugs or alcohol as a fuel. Must run billet steel fly wheel. No belt driven cooling fans, Electric fans only. Intercoolers and ice boxes are not permitted.

Fuel: Diesel fuel must be NTPA or NQS legal. Diesel only with a dielectric value of no greater than 4.9 or less than 2.2. The dielectric meter shall use Cyclohexane to establish the zero reference point in determining all diesel fuel dielectric constant values. The use of additives containing oxygen, such as nitromethane, propylene oxide, dioaxane, MTBE, alcohol (methanol), or nitrous oxide is prohibited. These additives, and others of the oxygen-bearing family, will significantly change the dielectric values of diesel fuel.

Tires: 26 x 12 - 12 max.

Weight Classes: 1100 lb / 1150 lb

Chassis: Maximum 56" wheelbase. Stock frames, stock appearing frame rails, and tube frames are permitted. Tube frames must be covered with sheet metal.

This class is for stock appearing tractors with full hood, grill and side shields. Must be recognizable as an actual modern production garden tractor or small farm tractor. Hood and grille can be from a different make than the frame / rear end. It has to look like a tractor. Must use garden tractor drive line components, modifications are allowed. Internal gears, front reduction housing and planetaries are allowed. No cut down automotive rear ends. Full metal side shields to cover engine area minimum 16 gauge steel or 14 gauge aluminum.

Safety: Must run 5/16" cable around oil pan over top of valve cover in a complete circle connected with (2) cable clamps. Clutch assembly and fly wheel must be surrounded 260 degrees with 1/8" steel or 3/16" aluminum. This is also to include cast iron front balancer pulleys. SFI approved front dampers need not be shielded. Kill switch device mounted on rear of tractor must disconnect power to electric fuel pump along with activating turbo guillotine.

Stock Altered Twin Rules: Class #17

All general and safety rules apply.

Age: Driver must be at least 15 years of age and must be physically capable of being in full control of the tractor at all times.

Engine: Stock engines (block, stroke, heads). Engine size must not exceed 39.08 cubic inches (allows for .040" overbore) for ohv motors or 48 cubic inches for flathead twins. Interchanging parts for other horsepower is allowed, but not to exceed the maximum size of the class. No reverse port engines allowed. Manifolds and carburetor must go to the original stock ports. Stock heads may be reworked, but recast or aftermarket heads are not allowed. Porting and polishing allowed. No external welding or other external modifications allowed. Must use stock intake and exhaust bolt pattern and location. Aftermarket cams, pushrods, valve springs and solid lifters allowed. Roller lifters and roller rockers are allowed.

Engine must have been available in a lawn or garden tractor from an *OEM manufacturer not to exceed any other rules such as horsepower, cubic inch, cylinders, or class size rules, etc., and must be *OEM stock production garden tractor engine. Aftermarket blocks are not allowed. It is up to the tractor owner to provide documentation to prove eligibility, such as *OEM tractor manufacturer, tractor model, and engine specs such as cylinders, cubic inch, and horsepower rating.

Carburetor: Stock carburetors may be reworked. *OEM accelerator pump carburetor is allowed. *OEM Kohler 2-barrel carb and recast 1.2 stock appearing carb are allowed. No other types of carburetors allowed. Maximum one (1) carb allowed. No turbos or pressurized intakes.

Fuel: Must run gasoline, E10, E85 or equivalent, E99, racing gas or methanol only; no additives.

Tires: 26 x 12 - 12 max. Bar tires and professionally made pulling tires such as Cepeks, Pit Bulls, Lawntecs, etc are allowed. May sharpen bars tires. Adding of bars, such as double cutting, is allowed.

Weight Class: 1000 lb

Chassis: Maximum 56" wheelbase. Must have hood, grill, and use factory transmission. Aftermarket frames Allowed.

Pro Stock Single Rules: Class #18

All general and safety rules apply.

Age: Driver must be at least 15 years of age and must be physically capable of being in full control of the tractor at all times.

Engine: 50.5 cubic inch max. Single cylinder Pro-Stock is defined as having a one cylinder, air cooled four cycle flat head, two valves same side, commercially produced manufactured cast block engine. Sleeves and welding permitted. Commercially produced manufactured cast block means made by Kohler, Wisconsin, Briggs, Tecumseh and etc. If copy is being made, copied block must meet basic manufactures specs for that engine being copied. Crank and cam location, deck height, two valves same side, valve angle (maximum valve angle of 6 degrees), intake and exhaust port location and factory head gasket bolt pattern. No reverse port engines

48 cubic inch stock appearing block K-series Kohler engines will be allowed to run with the same weight/hitch as the Pro Stock. 48c.i. engines will have the same rules as the 50.5 Pro stocks, with the following exceptions. Stock Appearing Block K-Series Kohler Engine, open carburetion (no fuel injection), external welding allowed on the blocks (all-thread okay), if engine is sleeved, sleeve cannot be externally visible. Must have head/block restraint.

Carburetor: A stock appearing Kohler type carburetor must be used if other than stock for the model engine being used. Standoff pipe or ram tubes are permitted. Choke may be removed. Single carburetor only. Air restricting venturi must be in stock position and carburetor not to be larger diameter than 1.200". Air controlled by butterfly in stock position in carburetor, no slides, no injection, naturally aspirated only. No air entering after 1.200" restriction. Venturi must be round in shape.

Fuel: Methanol only, no additives.

Tires: 26 x 12 - 12 max. Bar tires and professionally made pulling tires such as Cepeks, Pit Bulls, Lawntecs, etc are allowed. May sharpen bars tires. Adding of bars, such as double cutting, is allowed.

Weight Class: 1000 lb

Chassis: Maximum 56" wheelbase. Must have hood and grill, use factory transmission.

Super Stock Single Rules: Class #19

All general and safety rules apply.

Age: Driver must be at least 15 years of age and must be physically capable of being in full control of the tractor at all times.

Engine: Single cylinder Super Stock is defined as any tractor having one cylinder, air cooled four cycle, flat head, two valves same side of engine. 50.5 cubic inch limit. No reverse port engines.

Carburetor: Any type of Naturally Aspirated induction is permitted.

Fuel: Methanol only, no additives.

Tires: 26 x 12 - 12 max. Bar tires and professionally made pulling tires such as Cepeks, Pit Bulls, Lawntecs, etc are allowed. May sharpen bars tires. Adding of bars, such as double cutting, is allowed.

Weight Class: 1000 lb

Chassis: Maximum 56" wheelbase. Must have hood and grill, use factory transmission.

Pro V-Twin Rules: Class #20

All general and safety rules apply.

Age: Driver must be at least 15 years of age and must be physically capable of being in full control of the tractor at all times.

Engine: 48 cubic inch limit. Heads can include billet or recast copies of OEM heads. Must have stock external head dimensions. No hemispherical heads.

Carburetor: Any single carburetor.

Fuel: Gas or methanol only, no additives.

Tires: 26 x 12 - 12 max. Bar tires and professionally made pulling tires such as Cepeks, Pit Bulls, Lawntecs, etc are allowed. May sharpen bars tires. Adding of bars, such as double cutting, is allowed.

Weight Class: 1000 lb

Chassis: Maximum 56" wheelbase. Must have hood and grill, use factory transmission.

PST: Class #21

Combined heavy class for stock altered twin, pro stock single (we currently do not have a light class for pro stock single), super stock single, and pro v-twin

All rules from classes 17, 18, 20 apply except for weight and hitch height. Hitch height and weight borrowed from the 2020 NQS rule book.

Weights:

SA Twin 1000 lbs

PS Single 1075 lbs

SS Single 1020 lbs

Pro V-Twin 1000 lbs

Hitch height:
SA Twin 12.25"
PS Single 13"
SS Single 12.5"
Pro V-Twin 12"

King Of The Hill Classes

Will consist of tractors for that specific class at their lightest weight class paying 1 hook fee and winner will take 50% the other 50% will go to the club to put towards expenses and banquet.

KOH class will run after the heavy class is finished and will start with the stock class and run through the Pro-V-twin. Normal rules and protests apply. Results will not go towards the season points championship.

General Protest: All Classes - RPM, Weight, Hitch Height

Anyone can protest RPM, Weight, or Hitch Height for \$10 each. Protester must approach tech official to submit protest type(s), money, and protested tractor name PRIOR to protested tractor returning to the pits or the completion of the following class. If protested tractor returns to pit area, weight may not be able to be checked. A tractor failing any protest check will lose all points and benefits for that weight class that day and the protester will receive their money back for any failed protest. If the protested tractor passes the protested check they will receive the \$10 for each protest passed.

If a tractor fails a General Protest, That day's event for that tractor must be included in the Points Championship and cannot be dropped from the points calculations.

Engine Protest: All Classes

Any tractor placing in the top five may be protested by any competitor within the class. The protester must put up \$100 cash to be held by the tech official until the inspection is completed after the event. The **protester's tractor** as well as the **protested tractor** will be checked for rules compliance. If the protested tractor is in compliance, the protested tractor owner will receive the \$100. If the protested tractor is found out of compliance the cash will be returned and the protested tractor will not be allowed to pull again until the tractor can pass the inspection.

A tractor owner declining a protest inspection or failing an inspection will forfeit that event's winnings/points and will not be allowed to pull for the following two events. If they wish to resume pulling after that, the tractor must pass the inspection before they can pull.

Two strikes and you're out. Two failed protests and the tractor will not be allowed to pull the remainder of the season.

The inspection will consist of, but not be limited to the following.

Flathead engines:

- A. **Stock** - Remove head, measure bore and stroke and valve size and lift.
Turn head upside down to check combustion chamber.
Remove air filter and inspect carburetor.
Remove carburetor to check intake port.
- B. **Sport Stock and Stock Altered** – Remove head, measure bore and stroke and valve size and lift.
Remove air filter and inspect carburetor.

Overhead Valve engines

- A. **Stock** - Remove head, measure bore and stroke.
Turn head upside down to measure valves and check combustion chamber.
Remove air filter and inspect carburetor.
Remove carburetor and or intake manifold to check intake port.
Check pistons and check cam lift off of lifter.
- B. **Sport Stock** - Remove head, measure bore and stroke.

Remove air filter and inspect carburetor.
Check pistons and check cam lift off of lifter.

- C. **Stock Altered** - Remove head, measure bore and stroke.
Remove air filter and inspect carburetor.

Anything in plain sight found to be illegal will also be acted upon. If you don't want the tech officials to see parts of your engine that is not involved with the tear down process, cover it up.

The protest inspections are separate from the safety inspections. A protest pass or fail will not be based on safety related equipment. Any tractor at any time may be prohibited from pulling due to safety compliance issues.