

## **2019 ROBERTS GOOD NEIGHBOR DAYS**

### **TRACTOR & DIESEL PICK-UP PULL**

#### **General Rules**

- Be a Professional.
- **NO BEER OR ALCOHOL IN PIT!!!! ANYONE WHO IS DRINKING ALCOHOL WILL NOT BE ALLOWED TO PULL**
- No Complaining
- Pullers must be 18 years of age or older to participate. Minors must have parent or guardian consent. No one under the age of 18 will pull outside the Farm Stock Classes. No one younger than 12 years of age will be allowed to pull.
- Registration for the first two (2) classes of the pull will close at end of drivers meeting. The rest of the class's registration will close 15 minutes before start of the class. No registration after class list is posted.
- All pulls will be made from drawbar.
- Drawbar height MAXIMUM will be 20" to the top of the drawbar.
- One fuel type only.
- Pulling order will be determined randomly by draw. All pullers must pull in assigned order within three minutes or be subject to disqualification.
- Operator must remain seated and drive in a safe manner.
- Tractors must operate in a safe manner at all times. No chain jerking or hot-rodding allowed.
- All tractors must be in neutral or park when being hooked or unhooked from sled. "Hands up" signal by the driver will be used to indicate this is being followed.
- Tractor must remain within the boundaries of the track. Failure to do so will result in disqualification.
- Tractor must be occupied while it is running.
- Loss of any weight or part of the tractor will be grounds for disqualification.
- All pulls must start with a tight chain and be straight in-line with the sled.  
  
Contestants will have two consecutive attempts and 100 feet to start the sled.
- All drivers pull at their own risk. Roberts Lions Club shall not be held responsible for any accident or injuries.
- Class pulling order and drivers order will be posted.

- Judges have the option to reposition any puller in a class and adjust class running order based on class participation.
- One driver and one pit person per vehicle.
- Any pulling tractors may be teched at any time by a Tech person. Refusal will result in disqualification.
- Tractors will be stopped if front wheels are more than 24” off the ground.
- All tractors must scale prior to hooking to sled, immediately prior to the start of your class.
  - Once weighed, you are staged. Leaving the staging area is not allowed.
- Track officials have the right to move a puller to a different class.
- A driver’s meeting will be held prior to the event start time.
- No weights hanging directly above the draw bar. Must have 12” opening for hook-up to the sled.
- No weights can extend beyond rear tires.
- Any tractor with blower internal or external will pull turbo class.
- There will be no adding classes at any event. If you don’t fit the rules, you don’t pull.
- All Hot tractors must have fire extinguisher.
- Only two hooks per tractor allowed.

### **Farm Stock**

The farm stock class is for tractors right out of the field. These tractors are the same appearance as when they come from the factory.

All pulls must start with chain tight

Contestants will have 2 attempts and 100 feet to start the sled.

You may stop 1 time before **100 foot mark** to change gears or adjust speed.

If you brake the speed limit you **MUST** stop before **100 foot mark** to reset speed board.

Speed Limits –

Non-Turbo: 4,500/5,500 is 4mph

7,000/ 9,500/10,500 is 6mph

Turbo: 9,500/11,500/12,500/14,000 is 10mph

: ALL GENERAL RULES APPLY!

- Tractors may hook twice, once per weight class.
- Only OEM stock engine blocks allowed. No 800 HD Minneapolis Moline engine components allowed. OEM Head and Block driveline/transmission and sheet metal must be of the same manufacturer.

- Fenders are to be OEM only. They must support the weight of the driver and must be at least 6 inches above the tire. Clam shells are required on smaller weight classes, unless the tractor came without them (such as John Deere A's and B's).
  - All components must be on the tractor, i.e. fenders, working PTO, hydraulics: it all needs to be there. In addition, OEM seats and grills are required.
- Only OEM heads allowed. Diesel to gas conversions is not allowed.
- OEM frames only. No aluminum frames or custom built frames allowed.
- No water injection allowed. Add on turbos are NOT allowed.
- Turbo tractors: **turbo is limited 2.4-inch inlet**; all oil, lines, exhaust systems and intake tubing must be installed in a completely stock manner and must be installed in order to compete. Air filter elements are not required. Turbos must be OEM installed. Exhaust pipe cannot exceed 3 ½ inch inside diameter and no shorter than 2' in length. Must be straight and NO RAIN CAPS allowed.
- Only one stock injection pump allowed. One single updraft carburetor allowed and must be bolted to OEM stock intake manifolds without any alternations. No downdraft carburetors, unless OEM. Only OEM or after-market replacement manifolds allowed. Exhaust must exit in OEM location.
- All pulls must be made from a drawbar. Drawbar must be set up in such a manner that it will not move during a pull.
  - All tractors will hook to an opening minimum of 3 ½" of some sort.
    - **If opening does not allow easy hooking the tractor will not be allowed to pull.**
  - No drawbar will be stabilized with chains or irons.
  - Pin hole in drawbar will be no closer than back of PTO or 18 inches from back of point that drawbar hooks to tractor if tractor came without PTO.
- Weights must be attached to a weight bracket. No weight can extend more than 24 inches beyond front of the tractor.
- 100 lb. grace weight will be allowed.
- Tractors newer than 1950 must have PTO shafts or hydraulic systems. (Power steering and power brakes do NOT count as hydraulic system.) Upon the judge's discretion, the PTO and hydraulics may be tested on a piece of equipment.
- No weights will be hung off of 3-point arm in any fashion. A weight bracket must be installed. Must have minimum of 12 inches of clearance from hitch.
- Tire size limited to 20.8x38 up to 14,000lbs above that 42's and 46's will be allowed. Clevis or pulling lopes must be fastened to the drawbar with a 3/4" or larger bolt and safety pin to factory drawbar
- No adjustable hitches.

**General Rules Safety Rules that apply to following Classes**

## **Pro Farm, Limited Light Super Stock, Light Hobby Stock, Open, Improved Farm**

Must have the following safety equipment:

### **NO GRACE WEIGHT ALLOWED!**

- Wheelie bars, roll cage, scatter blanket, steel flywheel, side shields, complete fire wall, dead man throttle, fire extinguisher, cross bolts in exhaust pipe, fuel shutoff, fuel dump, air shutoff or kill switch for electronically ignited engines, helmet, fire suit and gloves, and five-point harness.
- Will be teched for safety equipment

The above rules may be modified by specific rules in each class.

### **Individual Class Rules**

#### **Borderline Pulling Series (Points) 2019**

##### **Improved Farm (2.8 x 3)**

**11,000-11,500**

**ALL GENERAL RULES APPLY!**

##### **Engine**

- No RPM and speed limits.
- No block larger than 466 cubic inches.
- Engine head must be OEM for that brand and (no aftermarket heads).
- Factory exhaust manifolds only. OEM intake and factory replacements only. No homemade intakes of any kind.
- Turbo: Maximum of a 2.8 inlet by 3 inch outlet. Must be smooth bore. No slots or slugs unless using a 2.6 inlet by 3 inch outlet than Slots or Slugs are allowed. No inner or after coolers.
- Water injection is allowed only in the intake pipe.
- Diesel fuel only. OEM pump must match make and model of manufacturer. (Example John Deere A-Pump/IH Rotary Pump). Must have OEM appearing injection pump, no injection pump larger than A-Pump. No nitrous or propane allowed.
- No exhaust pipe larger than 4 inches in diameter. Must have cross bolts in exhaust pipe.

##### **Safety**

- SFI steel flywheel, SFI approved scatter blanket or 3/8 inch plate surrounding the bellhousing
- (will be teched), wheelie bars, fenders, kill switch, 2.5 pound fire extinguisher, full roll cage with five point harness, if using a ROPS seatbelt is required, side shields recommended, air shutoff, and must have a spring loaded throttle that returns to idle. Must have a 3 way dump valve ahead of the injection pump operated by a cable. Electric Fan is required.
- DOT approved helmet required. Fire suit recommended.

- All competitors must sign a notarized affidavit as proof of having a SFI steel flywheel.

### **Frame**

- Block, driveline, transmission, rear axle and sheet metal must match the model of the manufacturer.
- No custom or component frames. Stock frame only. Tractors must have stock wide front end. Must have frame ties.
- No tires larger than 20.8 x 38. No cuts or ground tire of any kind allowed. No aluminum rear rims allowed.

### **Borderline Pulling Series (Points) 2019**

#### **Pro Farm (3x3)**

**9500-10,000**

#### **ALL GENERAL RULES APPLY!**

#### **Engine**

- No RPM and speed limits.
- No block larger than 466 cubic inches.
- Engine head must be OEM for that brand (no aftermarket heads).
- No overhead cams, 2 valves per cylinder.
- OEM intake and exhaust manifolds.
- Turbo: Maximum of a 3 inch inlet by 3 inch outlet. Must be smooth bore. No slots or slugs. No inner or after coolers. United Pullers of Minnesota Certified Turbos allowed.
- Water injection allowed in the crossover pipe and ported water is allowed in the intake manifold only, not the head.
- Diesel fuel only, no injection pump larger than a P-Pump.
- No exhaust pipe larger than 4 inches in diameter. Must have cross bolts in exhaust pipe.
- All inline turbocharged engines are required to have one 3/8 inch thickness cable mounted between cylinders number 2-3 with 4 clamps at the splice, with no more than 4 inches of slack.

#### **Safety**

- SFI steel flywheel, SFI approved scatter blanket, wheelie bars, fenders, kill switch, 2.5 pound fire extinguisher, full roll cage with five point harness, side shields, air shutoff, full firewall. Must have a spring loaded throttle that returns to idle. Must have a 3 way dump valve ahead of the injection pump operated by a cable. Electric Fans are required.
- SFI approved fire suit, helmet, gloves and shoes.
- All competitors must sign notarized affidavit as proof of having a SFI steel flywheel.

## **Frame**

- Block, driveline, transmission, rear axle and sheet metal must match the model of the manufacturer.
- Must have frame ties or a one piece frame.
- Maximum length of 13 feet from the center of the rear axle to the front of the tractor, including any type of weights.
- No tires larger than 20.8 x 38 cuts allowed. Aluminum rims allowed.

## **Limited Light Super Stock WTPA Rules**

### **6,250 lbs**

Tires: 30.5 Chassis:

- ALL GENERAL RULES APPLY!
- NO component chassis allowed – rear end must be of tractor origin.
- OEM (replacement/heritage) rear end trans, torque tube/bell housings required, ALL flywheels to be encased in bell housing or SFI clutch and covered on outside with SFI blanket as stated in safety rules.
- Engine cannot move independent of frame, rear end, or transmission.
- Engine to be in stock location for chassis being used, a max of a 1” adapter plate will be allowed.
- Must have tie bars or 1 piece frame rails.

Engine:

- Cubic inch limitations: **\*\*NO DECUBING ALLOWED\*\***
  - 479 cid – maximum of 3x3 turbo and NO inter/after coolers allowed (Diesel)
  - 410 cid – maximum of 3x4 turbo with an inter/after coolers allowed (Diesel)
  - 315 cid – may run with twin chargers up to 3x4 with intercooler (Diesel)
  - 370 cid – maximum of 3x4 turbo and NO inter/after coolers allowed (Alcohol)
- Engine to be OEM manufacturer (brand) and/or follow HERITAGE lines. All engines series must be of Agricultural in origin.
- OEM block and cylinder head for engine being used, NO aftermarket, billet or recast or insert heads allowed.
- Cylinder heads to have a maximum of 2 valves per cylinder.
- NO overhead cams allowed.
- NO mechanical fans allowed.

### Fuel Pump:

- Maximum of p7100 series pump or smaller with 1 plunger and 1 injector per cylinder for all diesel tractors.
- Mechanical or electric fuel pumps for Alcohol tractors allowed.
- Acceptable fuels are: Diesel (bio allowed), Alcohol (methanol), VP gas
  - One fuel only, NO pressurized secondary fuel sources to include nitrous oxide, nitro methane, and propane or any other oxygen enhancers.

### Turbo:

- ALL turbos to meet the sizing restrictions as listed above in the “cubic inch limitations.”
- All 3 inch inlets will be measured with a 3.05 slug and outlets with a 4.05 slug or the 3.05 as limits dictate.
- All turbo compressor and exhaust wheels to rotate within the maximum bore allowed at a minimum of 1/8-inch protrusion into bore. NO plugs allowed.
- Slots are allowed (MAF enhancement, MWE groove, ect.) at a maximum of .250 width and NO other secondary air sources allowed.

### Water Injection/Intercoolers:

- All water injection to be of tap, bottled, or distilled water with NO alcohol additives or other enhancers allowed (NO alcohol, windshield washer fluid, ect.).
- Soluble oil mix additives are allowed for lubrication.
- Intercooler ice must be in or on tractor at weigh in.

### Light Hot Farm

#### 5,700 /6,200

- All General Rules apply.
- Maximum Tire size: 20.8 x 38.
- Motor- OEM engine block and head.
- Tractor must have OEM engine block, cylinder head, transmission, and rear-end casing.
- Any carburetion is allowed on NA engine. Fuel injection allowed.
- No cubic inch limit on naturally aspirated engines.
- Diesels limited to one injection pump not larger than a Bosch P-series non turbo.
- Water injection allowed
- Must have a steel flywheel and pressure plate.
- Only gas, diesel or alcohol allowed no dual fuels.
- Wide front ends required.
- Maximum of 156 inch wheel base measured from the center of the rear axle.

### Open

#### 8500/9500

- **ALL GENERAL RULES APPLY!**

## **Pickup Trucks**

### **Street Diesel 8500**

- Must be licensed.
- Must have front bumper.
- Must have working lights.
- Hitch height is 26" for this class.
- Must pull off hitch with front mount not to extend forward of rear spring shackles.
- Rear mount must be within 6 inches of rear of factory length frame.
- The entire hitch hole must extend beyond the back of the box or flat bed.
- Hitch hole must be mount solid to rear hitch mount.
- Must not pivot off from front mount. (NO PROSTOCK TYPE HITCH)
- Hitch must be easily accessible.
- These rules are if you make a hitch.
- You may bolt a factory receiver hitch to factory location.
- Must provide own clevis or 4" hitch hole.
- No hollow tube style receivers must be the solid style for safety.
- Must be on springs. Lift kits allowed.
- Must use stock frame and running gear.
- 35" tire size max.DOT tires Only.
- No stacks through hood.
- Must exit behind cab.
- No nitrous or propane.

### **Open Diesel**

**All safety equipment required!**

### **Light Hobby Stock - 5,700/6,200**

- Maximum Tire size: 20.8 x 38.
- Motor-OEM engine block and head.
- Tractor must have OEM engine block, cylinder head, transmission, and rear-end casing.
- Any carburetion is allowed on NA engine.
- No cubic inch limit on naturally aspirated engines.
- Diesels limited to one injection pump not larger than a Bosch P-series non turbo.
- Water injection allowed
- Must have a steel flywheel and pressure plate.
- Only gas, diesel or alcohol allowed. No dual fuels.
- Wide front ends required.
- Maximum of 156 inch wheel base measured from the center of the rear axle.

**REMINDER: ALL GENERAL RULES APPLY TO ALL CLASSES.**