

# 2017 Battle of the Bluegrass Rules for 10,000 Hot Farm

Class Representatives: Levi Thomas/ Laramy Thomas / Allen Powell

No Rule Changes from 2016.

## **Air shutoff:**

Vehicle must have a cable operated engine air intake shut off device. Device cannot be a butterfly type and must be spring loaded. Cable must be located approximately 4 feet above the point of hook and within 6 inches of center of vehicle. Device must prevent the engine from building boost. The sled requires a 2 inch ring or equivalent be attached at the end of cable. Mount cable in clear view with no obstructions. One must be within drivers reach as well when strapped in seat.

## **Brakes:**

All tractors must have working rear brakes capable of sliding each rear wheel.

## **Clutch:**

Clutch Blanket: If, you have an SFI Approved clutch and flywheel with certification papers you will not need a clutch blanket although it is recommended. If you do not have an SFI Approved clutch and flywheel with certification papers, you must have an SFI Approved 4.2 blanket, minimum of 17" wide and have a 6" overlap around the bell housing of the tractor.

## **Cubic inch:**

470 cubic inch maximum with 1% tolerance over. De-cubing limit of 10% for larger motors.

## **Cooling Fans:**

All cooling fans will be electric operated. No factory metal blades on water pump.

## **Chassis:**

Maximum of 114 inch wheel base unless originally produced with a longer wheelbase at which point the wheelbase will remain stock. Maximum length of 13 feet from center of rear axle to forward most point of tractor excluding front hitch.

## **Dump Valve:**

A 3-way fuel dump bypass valve is required ahead of the injection pump. This valve is to be operated by a cable within the drivers reach when strapped in seat. A fuel test valve must be installed close to the injection pump for fuel samples.

## **Drawbar:**

Must be a minimum of 18 inches behind center of rear axle. A maximum of 20 inches in height and be ridged in all directions. Hitching eye to be a minimum of 1 inch thick with a 3" x 3.75" inside diameter hole.

## **Engine:**

OEM stock block, head, intake manifold & exhaust manifold must be for make and model of vehicle being entered. No aftermarket components allowed. Intake and Exhaust spacers no more than 1 inch. OEM cylinder head limited to 2 valves per cylinder. No recast heads. No aluminum heads, no over head cams allowed.

No electronic fuel injection of ANY kind.

Engine adapter plate is to be for make. Example: John Deere on John Deere, Massey on Massey.

**Fire Extinguisher:**

Vehicle must be equipped with a minimum of a 2.5 lb dry type or a 2 lb halon type fire extinguisher that must be located within easy drivers reach. Must be fully charged and have a working gauge.

**Fenders:**

All tractors will have fenders and must support weight of driver. Top of fender must extend no fewer 6 inches over the top of tires.

**Floorboards:**

All tractors must be equipped with a floorboard.

**Frame:**

No component tractors allowed. Ag type rear ends only.

**Front Skid Plates/Ski Bars:**

Front skid plates/ski bars are required. Must be within six inches of the ground.

**Fuel Pumps:**

Rotary, A pump, P pump of 13 mm plungers or smaller (P 3000 or P7100 no P 8600) only one plunger per cylinder. Throttle stop must be on the pump.

**Fuel:**

Diesel fuel only. No compressed gases of any kind allowed as additive.

**Fuel Test:**

All paid placing tractors must be checked and proven legal. Styrofoam cup test immediately after class. 4 minutes- must not melt hole in cup. If failed- dielectric test to take place. Illegal fuel is a disqualification.

**General Rules:**

All vehicles/drivers must comply with general rules.

**Roll Cages:**

Roll cages are required on all Hot Farm Tractors.

**Neutral Start:**

Vehicles must not start in gear.

**Personal Safety Equipment:**

Driver must wear a helmet, Snell rating of 85 or higher, must wear a fire jacket meeting SFI rating of 3.1 or higher and fire pants, leather shoes and SFI approved gloves. Driver must wear a neck collar.

**RPM:**

3100 rpm maximum. Must have magnetic tape on balancer or on flywheel. Vehicle must have an ISPRO #019R8906 magnetic pickup attached to the front of the engine to measure engine RPMs.

The lead from the pickup to the rear of the vehicle is to be made of 14-16 gauge wire extension cord with a molded 110V, 3-prong female electrical outlet. This 110V plug needs to be mounted next to the rear-mounted air shutoff cable. Wire must be one (1) continuous wire outside the frame rails and visible. RPM cord must be on outside of blanket and follow the frame and easily seen. NO SPLICES. Tractor will be hooked to RPM monitor box while going down track. A tractor will be allowed a one (1) time "no reading" on the RPM box throughout the season, after that any non-reading from RPM box at end of run in competition will result in an immediate disqualification.

**Sheet Metal:**

All tractors are to look standard for its year make and model in appearance. All major factory sheet metal is required.

**Stabilizer Bars:**

Stabilizer bars are required (no wheels allowed). The stabilizer bars cannot be welded or bolted to the hitch in any way. The stabilizer bar must extend a minimum of 32 inches rearward from the center of the rear axle. The skid pad cannot be more than 10 inches off the ground. The skid pad must be a minimum of 5"x 5" square. A minimum of 20 inches is allowed between the 2 skid pads. No cross bars are allowed on the stabilizer bars behind the hook point. In addition to the stabilizer bars, the vehicle must have a brace that extends vertically 12 inches from the rear-most tip of skid pads. There must be support brace extending inward to frame, axle or top of stabilizer bars. Design and material used must with stand impact of sled and support the weight of tractor. Vertical brace should extent rearward a minimum of 2" from radius of rear tire.

**Seat belts:**

Three bar roll cage protection and 5 way seat belt harness in roll cages.

**Shields:**

Side panels are mandatory on both sides of the engine and cover the entire engine. Either aluminum or steel not less than 0.060" thick. There must be a fire wall that separates the operator from the engine compartment with no hole more than 1/2 inch in diameter for controls to pass through. A 0.060" thick or .120" thick aluminum must run between frame and under the harmonic balancer to prevent loss of harmonic balancer from tractor.

**Tie Bars:**

Must support the weight of tractor.

**Tire Size:**

20.8- 38 NO CUT TIRES

**Throttle:**

Throttle lever must have a double spring installed such that if the throttle lever is released, the engine will return to idle. Throttle must function such that moving the throttle lever forward increases the engine speed.

**Tube Frame and Front End:**

Manufactured tube frames and front ends are allowed and must support the weight of tractor. No front end suspension allowed.

**Turbo:**

3.0 max diameter wheel intake inlet. Must protrude at least 1/8". Bushings may be used if welded in. Map grooves may be no larger than .200 in factory location. No forward-facing map e-grooves. Wheel must protrude into slug. Exhaust mount plate no larger than 2.75 x 3.5. BOB techs will be checking with 3" plug or calipers. The exhaust wheel no larger than 3.6 (Example no H5 or S500 series or larger turbos. No large frame turbos.)  
Class is limited to 1 turbo charger.

**Water injection:**

Water injection is allowed with water and pump lubrication only. Water may contain crop oil or water soluble oil. Water must pass any test the B.O.B tech department implements. A water test valve must be installed between the pump and injection into the engine, for water samples to be taken. NO INTERCOOLERS OF ANY SHAPE OR FORM ALLOWED IN THE AIR INTAKE SYSTEM OF ANY TRACTOR.

**Wheel Hubs:**

Must be steel weld on hubs or heavy duty clamp on hubs. No cast iron.

**Note:**

Everyone will be pumped at one of the first pulls of the year. It is the driver's responsibility to be there at the agreed-upon time to allow all tractors to be done and sealed. New tractors will be allowed one grace hook and must be pumped before allowed another hook. It is the driver's responsibility to inform techs and allow time to be pumped before second pull.