



# Rules & Classes 2023

## General Rules

### Age Requirements

-ALL Pullers are required to sign a insurance waiver once/year.

-Participants under 16 years old, parents must sign a responsibility waiver.

-Participants under 7 years old – One adult is required to walk alongside tractor for safety only. The child must be able to control tractor without the aid of the adult. Safety officer will determine if the driver is qualified to handle the tractor in a safe manner.

**\*\*Weigh ins and sign ins will start at a designated time, this will end 15 minutes prior to the start of the pull. Pullers will NOT be allowed to pull if these conditions are not met\*\***

## General Safety

**-The sled operator has the right to refuse any hook. Due to safety concerns regarding the tractor or the driver.**

-Only the flag person is allowed on the track during a pull, unless driver of tractor is under 7 years of age and one adult is required to be on track

-During pull, driver must have always at least one hand on steering wheel and remain seated

**-Everyone must refrain from using drugs or alcohol before or during any pull, this will be enforced at all times. Alcohol is not permitted on the grounds before, during, or after any scheduled event. If you cannot follow this rule, you will be asked to leave the event.**

-Fighting, arguing, or un-sportsman like conduct will not be tolerated. If this problem arises, you may be suspended from the next two pulls and will forfeit your hook fees for the day. The sled operator reserves the right to refuse to hook any tractor that does not meet the general or class safety requirements

-No one is to be riding on tractor other than driver at any time – including in the pits

## Tractor Requirements

-All power must be transferred through the wheels. Tires cannot exceed 26x12x12

-No four-wheel drives permitted or dual wheels

- Stock and Hot Stock – no professional manufactured pulling tires allowed. Ag style bar tires, non-connecting, non-chevron from factory allowed, and may be cut. No V cuts.

**-All tractors must have a kill switch at rear of tractor that will kill the fuel pump and ignition.**

-Maximum draw bar height is 13” with driver in the seat

-Maximum wheelbase length is 56” from axle to axle

-Maximum tractor length from center of rear axle forward, including expandable weight bar is 96”

-All pulleys, belts, clutches and moveable drive lines must be shielded

- All tractors must have wheelie bars to support the weight of the tractor. The maximum height off the ground shall be 5" and no less than 5" behind the rear tires.
- All tractors must have a hood that covers the engine and fenders covering the rear tires
- All tractors must have working breaks
- All tractors must have spring return throttles, except stock class
- Wheelie bars, weights, and hitch design shall not interfere with sled hook up
- Hitch requirements- must have a 1 ½" hole and at least 3/8" of metal from edge of hole to back of hitch. It's mandatory that the hitch stay stationary. Max hitch height is 13"
- All pulls must start from a tight chain, no jerking will be allowed
- All tractors with engines turning over 4,000 RPM must have scatter shields opposite of cam shaft side of motor. Minimum dimensions must be from the bottom of engine to 4 ½" above the center line of the crank shaft and must be 7" in width or greater. Clutches and flywheels must be shielded 360°
- If not using stock exhaust, pipes must discharge vertically 12" from top of exhaust port of engine
- Tractors running alcohol- must have a fire extinguisher on the tractor
- All tractors must be always operated in safe manor. No speeding or careless driving
- Any violations of the above requirements will be subject to disqualification or ineligibility to pull

### **Event Procedures**

- All tractors must cross scales before pulling and the tech director will check weight, RPM, and draw bar height before each pass.
- Hitch height will be checked near or on scales, safety inspections may also be done at this time, if tractor is deemed unsafe puller will NOT be allowed to pull.
- Any puller attempting to pull before the signal from the flagman may be disqualified. Green flag means pulling is in progress.

-The flagman has all rights to stop a pull in progress due to safety reasons by waving the red flag. The flagman will hold digging at end of pull to a minimum. The tractor must be stopped immediately upon a red flag from the flagman.

-If a puller shuts the tractor down within 40 feet of start line, he has the option to re-pull at that moment.

-The first puller in each class has the option to turn down his pull distance and re-pull in the last position of the class. This must be decided before the tractor is unhooked from the sled.

-Weights must stay on tractor at all times. If weights or anything else falls off of tractor it will be disqualified.

-If tractor goes out of marked boundaries it will be disqualified, this includes the first puller in each class. (Sled may be out of bounds, as long as tractor stays in boundaries)

-All pulls will have a floating finish line, unless space does not permit

## **Pulling Classes**

### **Stock**

-Factory stock engine with a maximum .030" overbore

-Stock carburetor only with maximum 1" venturi and it cannot be bored or modified in any way, and must be bolted to the engine or OEM intake, No Modifications.

-Governors are required

-Absolutely no modifications to block as far as porting and polishing

-Cast reground cam with maximum .324" valve movement –Single Cylinder only

-Stock Cast Crank and stock stroke must be maintained

-Stock OEM piston only- Piston must be flush or below the deck of the block

-Stock rod, but it can be inserted and polished

-Copper head gaskets will be permitted

- Head must be OEM manufactures and can be surfaced to true the sealing surface, No porting or polishing

-Pump gasoline, aviation fuel, and gasoline additives (octane boosters/leads substitutes) are allowed. NO alcohol.

-K & N type filter allowed and must be directly attached to carburetor flange. No adaptors and no velocity stacks.

-Tractors are subject to RPM check, (4000 RPM Max on Single)(4250 Max on Twin)

## Weight Classes

850 lb Junior Stock Single Cylinder

850 lb Junior Stock Twin Cylinder

Junior class is for 5 to 12 years of age (7 and under must have adult supervision at all times) Five year old starts pulling on their date of birth, 12 year old may finish season after 13<sup>th</sup> birthday.

950 lb Stock Single Cylinder

950 lb Stock Twin Cylinder

1050 lb Stock Single Cylinder

1050 lb Stock Twin Cylinder

1100 lb Stock Single Cylinder

1100 lb Stock Twin Cylinder

(Twin Cylinder only in Twin Cylinder Classes)

## Hot Stock-Single Cylinder

- One Cylinder only
- No diesel or fuel injection
- Factory stock engines
- Recast stock appearing heads allowed; No Billet Heads
- All engines must meet OEM dimension and specifications for size and location
- Maximum bore .030" over manufactures specification
- Stock crankshaft stroke must be maintained
- 1" maximum carburetor standoff allowed
- Carburetors must be stock appearing for engine manufacture with maximum venturi diameter of 1.0"
- Maximum valve lift of .330"
- Valves must be stock diameter
- Porting and Polishing allowed
- No externally visible modification to block or cylinder head
- Engines must be normally aspirated
- Pump gasoline, aviation fuel and gasoline additives (octane boosters/lead substitute) are allowed. **NO alcohol. NO E85.**
- Piston must be flush or below deck of block
- No governor required
- Steel flywheel required
- Stock specifications including weight and tires
- Maximum 5000 RPM** (If stock class tractor without steel flywheel, will be limited to 4000 RPM)
- Tractors will be required to have a RPM sensor to our specifications. (Will allow new pullers two hooks checked by hand tach before this is enforced)

### Weight Classes

850 lb Hot Stock Single

950 lb Hot Stock Single

1050 lb Hot Stock Single

### Hot Stock-Twin Cylinder

- Two Cylinder only
- No diesel or fuel injection
- Factory stock engines
- All engines must meet OEM dimension and specifications for size and location
- Maximum bore .030" over manufactures specification
- Stock crankshaft stroke must be maintained
- Carburetor must be stock appearing for engine
- Adaptor allowed for carburetor so that vertical intake manifold can be used
- Valves must be stock diameter
- Stock heads-no welding
- No roller rockers or lifters
- Porting and Polishing allowed
- No externally visible modification to block or cylinder head
- Engines must be normally aspirated
- Pump gasoline, aviation fuel and gasoline additives (octane boosters/lead substitute) are allowed. **NO alcohol. NO E85.**
- Piston must be flush or below deck of block
- Steel flywheel required
- Stock specifications including weight and tires
- Maximum 5000 RPM (If stock class tractor without steel flywheel, will be limited to 4000 RPM)

### Weight Classes

950 lb Hot Stock Twin

1050 lb Hot Stock Twin

## Super Stock

### 1000 lb Super Stock

30 cube and 16 HP stock altered will run in same class

For 30 cube:

- After market head, cam, valves, crankshaft and intake
- After market block, any bore and stroke combination not to exceed 30 cubic inches
- Can run an open carburetor
- Engines must be normally aspirated
- Pump gasoline, aviation fuel, and gasoline additives (octane booster/lead substitutions) plus Alcohol permitted
- MUST have steel flywheel

For 16 HP Stock altered:

- Engine must be factory or OEM replacement with factory deck height
- Billed head allowed
- Maximum stroke 3.25"
- Maximum engine valve size 1.380"
- Maximum valve lift .330"
- Maximum carburetor size 1.0"
- 1" spacer allowed
- Engines must be normally aspirated
- Pump gasoline, aviation fuel, and gasoline additives (octane booster/lead substitutions) plus Alcohol permitted
- MUST have steel flywheel

### 1100 lb Super Stock

20 HP and under, one or two cylinder

For One cylinder:

- Standard lawn and garden type engines with after-market head, cam, valves, crankshaft, and intake
- After-market block not to exceed 3.25" stroke and maximum bore 3.812". Measurements apply to after-market blocks and stock appearing carburetor, unless originally had two carburetors, but can be modified
- Porting and polishing will be allowed
- MUST have steel flywheel

For Two cylinder:

- All v-twin engines may run stock modified heads with no external welding
- Limited to 39.5 ci, stock stroke must be maintained
- Maximum valve size of 1.450" intake and 1.250" exhaust open valve movement
- Roller lifters and roller cam are allowed
- Stock appearing two barrel carburetors allowed as well as a single cylinder carburetor with a 1.2 venturi
- After-market intake allowed
- Porting and Polishing allowed
- MUST have steel flywheel

### **Open Class**

- 26 HP and under, one or two engines
- One, two or three cylinder diesel
- One or two cylinder gas or alcohol
- After-market block permitted
- Blower with injector or motorcycle carburetor permitted
- Only one turbo per diesel engine
- Multi-engine: One or two engines combined total 26 HP maximum. No rotary, motorcycle, or aircraft engines. No bore or stroke limits on legal engine
- MUST have steel flywheel

### **Weight Classes**

- 1050 lb
- 1200 lb