

# **Division Breakdown and Rules**

South West Iowa Antique Tractor Pull

# Division I NATPA Pulling Rules

**Effective until 4/2012**

Division I is designed for beginning pullers and show tractors and is used to promote stock pulling. Tractors: 1957 and older or production models that started in 1957.

**Exception: JD 30 Series allowed.**

**Classes: 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000, 6500, 7500 and 8500#**

1. GENERAL RULES – See general rules that apply to all tractors.
2. ENTRY - A tractor cannot be entered in classes below its manufactured shipping weight. A Division I tractor may also pull in Division II if the tractor meets the rules for Division II. Division II tractors cannot drop to Division I.
3. MAXIMUM TIRE SIZE - 0-3500# 130 sq. in. max; 3501-4500# 145 sq. in. max; 4501-5500# 170 sq. in. max; 5501-6500# 229 sq. in. max; 6501-7500# 284 sq. in. max; 7501-8500# 300 sq. in. max. No cut tires. See tire size chart below from Firestone Traction Field and Road and Firestone Field and Road Charts.
4. RIMS AND WHEELS - Tractors must have OEM recommended diameter rims and OEM wheels. Tires must be on rim width, not exceeding tire manufacturers recommended width. Wheels with rims for manufacturers original recommendations to include cut-downs for tractors that may have originally been on steel wheels.
5. SPEED LIMIT - 2.75 MPH. Not allowed to shift torque or gear.
6. WEIGHTS - Weights of bolt on type to either the front or the back wheels. Weights can be made. They must be round and made of metal and be as near appearing to original manufactured weights as possible. No concrete or suitcase weights allowed.
7. ENGINE - Stock block, naturally aspirated. Exceptions: Oliver 99 GM, etc. Stock head, manifold, and carburetor (by part number). Manifolds are to be replacement manufactured parts accepted for that make and model tractor. Stock RPM. Engine parts not in parts book or replacement parts book for that specific tractor cannot be used. Exceptions: Distributors can be used on Antique tractors. A factory coil must be used. No electronic ignitions, square coils, MSD coils or chrome coils allowed.
8. HITCHES - Maximum 16" height (stationary in all directions) locked at 16" on tractors such as IH fast hitch, Ford 3 point hitch, etc. Hitches must be as from factory-

unaltered for that specific tractor. Operator must furnish a straight up and down clevis with a minimum opening of 2.5" bolted or pinned tightly with spacers to the draw bar. Hitch measured at hook point of clevis. Farmall H's and M's must pull from an original drawbar hooked to the original belly hook point.

**Drawbar must be 24 inches minimum from center of axle to hitch point. (This wording add as per safety committee on 7/30/03 )**

9. SAFETY - The front wheels of the tractor are not allowed to exceed 16" off the ground during a pull. Operator is to provide a linked chain or device attached parallel with the center of the front axle with a maximum of 16" on the ground. Chain must be dragging at the time tractor is hooked. Wheelie bars are optional. If wheelie bars meeting upper division requirements are used, the above nose height rule does not apply.

10. APPEARANCE - Tractors must maintain original stock appearance. If a part is not found in the manufacturers' parts book it cannot be used. No extra accessories allowed. No aluminum or chrome allowed except for exhaust pipes. All guards, shrouds, covers and shields shall be in place as from factory and be made of original material (steel or iron) and as near like factory as possible. No homemade rear end covers allowed. Seat must be an original seat or a manufactured seat made for a farm tractor placed with stock mountings (such as TSC). Home made side - shields will not be allowed. Exception: factory side shields such as Oliver's. Alternators and straight pipes are allowed.

11. SPONSORS - Advertising plaques or signs may be put on tractor as long as it does not interfere with teching of tractor.

0-3500# class 130 sq. in. 3501-4500# class 145 sq. in 4501-5500# class 170 sq. in .

11.2 x 38 - 120 sq. in. 12.4 x 38 - 140 sq. in. 13.6 x 38 - 168 sq. in.

11.2 x 36 - 115 sq. in. 12.4 x 36 - 135 sq. in. 14.9 x 28 - 170 sq. in.

12. 4 x 28 - 126 sq. in. 13.6 x 28 - 145 sq. in.

13.6 x 24 - 130 sq. in. 14.9 x 26 - 144 sq. in.

5501-6500# class 229 sq. in. 6501-7500# class 284 sq. in. 7501-8500# class 300 sq. in.

14.9 x 38 - 200 sq. in. 18.4 x 34 - 284 sq. in. 18.4 x 38 - 300 sq. in.

15.5 x 38 - 189 sq. in. 16.9 x 38 - 252 sq. in.

16.9 x 34 - 229 sq. in. 18.4 x 28 - 250 sq. in.

## **Division II NATPA Pulling Rules**

**Effective until 4/2012**

Division II is designed for competitive pullers with near stock tractors, piston kits, etc.

Tractors 1957 and older or production models that started in 1957

**Exception: JD 30 Series allowed.**

Classes: 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000, 6500, 7500, 8500# and 9500#

1. GENERAL RULES – See general rules that apply to all tractors.
2. ENTRY - A Division I tractor may also pull in Division II if the tractor meets the rules for Division II. Division II tractors cannot drop to Division I.
3. MAXIMUM TIRE SIZE - 0-4500# 170 sq. in. max; 4501-6500# 229 sq. in. max; 6501-8500# 300 sq. in. max. No cut tires. See tire size chart below from Firestone Traction Field and Road and Firestone Field and Road charts. Maximum tire size of 38".
4. RIMS AND WHEELS - Tires must be on rim width, not exceeding tire manufacturers recommended width. Pressed steel wheels are allowed front and rear. No chrome or aluminum wheels allowed.
5. SPEED LIMIT - 3 MPH. Not allowed to shift torque or gear.
6. WEIGHTS - Suitcase weights and custom made weight brackets are permitted, front weight bracket and weights to extend no farther than 11 feet from center of rear axle. Weights may not extend behind rear tires. A stop on the ends of the weight brackets no closer than 4" to the rear wheel (not the rim).
7. ENGINE - Stock block, naturally aspirated. Exceptions: Oliver 99 GM, etc. Stock head, manifold, and carburetor (by part number). If an external part is not in the parts book or replacement parts book for that specific tractor it cannot be used. Exception: straight exhaust pipe allowed, air filter must be used although it may be of any type. RPM - 110% of factory high idle specification (RPM used is the latest model rpm for that make of tractor). No electronic ignitions, (Exception: an electronic pickup inside the original stock distributor or magneto can be used, but distributor or magneto must maintain original appearance). No square coils, MSD coils or chrome coils allowed.

8. HITCHES - Minimum 18" back from the center of the rear axle and a maximum of 18" drawbar height. Hitch material cannot be thinner than 3/4" and not thicker than 1.25". Hitch has to have a 3" hole with 1" material thickness around the hole or a straight clevis bolted or pinned tightly to the drawbar with a minimum of 2.5" hole. Top of hitch adjuster cannot be above center line of axle or hub. Hitches and drawbars must be stationary in all directions. Hitch must be easily accessible (sled operator's discretion).

9. APPEARANCE - Tractors must maintain original stock appearance. If a part is not found in the manufacturers' parts book it cannot be used. No extra accessories allowed with the exception of weight brackets, hang-on weights, wheelie bars, wheels, rims, bolt on hubs, draw bar, muffler and air cleaner. Battery boxes may be moved from stock mounting location. No aluminum allowed except for weight brackets and wheelie bars. No chrome allowed except for exhaust pipes. Homemade side-shields are not allowed. Exception: factory side-shields such as on Olivers. No homemade rear end covers allowed. All guards, shrouds, covers, and shields shall be in place as from the factory and be made of original material (steel or iron) and as near like factory as possible. Seat must be an original seat or a manufactured seat made for a farm tractor placed with stock mountings (such as TSC). Alternators and straight pipes are allowed.

10. SPONSORS- Advertising plaques may be put on tractor as long as it does not interfere with teching of tractor.

0-4500# class 170 sq. in. 4501-6500# class 229 sq. in. 6501-8500# class 300 sq. in.

13.6 x 38 - 168 sq. in. 14.9 x 38 - 200 sq. in. 18.4 x 38 - 300 sq. in.

14.9 x 28 - 170 sq. in. 15.5 x 38 - 189 sq. in. 16.9 x 38 - 252 sq. in.

16.9 x 34 - 229 sq. in. 18.4 x 28 - 250 sq. in

## Division III NATPA Pulling Rules

Effective until 4/2013

Tractors 1957 and older or production models that started in 1957

**Classes: 3250\*, 3500, 3750, 4000, 4250, 4500, 5000, 5500, 6000, 6500, 7500 and 8500#**

1. General Rules – See general rules that apply to all tractors.
2. Age: Drivers must be 14 years of age or older. Those under 18 years of age must have written parental/guardian permission.
3. Safety: All tractors must have a working safety kill switch.
4. Draw Bar: Draw bars must not exceed 20 inches in height or be less than 18 inches from center of axle to hooking point. No part of draw bar may extend rearward beyond point of hook. Draw bars must be stationary in all directions. No clevises. Top of hitch adjuster cannot be above center line of axle or hub. (This wording add as per safety committee on 7/30/03 )
5. Weights: Weights must not extend rearward beyond rear tires and cannot be more than 11 feet from the center of the rear axle to the furthest point forward.
6. Tires and Rims: Maximum tire size - 18.4 X 38; any rim width. No radial tires. No steel wheels. Two wheel drive only. No duals. Any cut allowed on tires.
7. RPM's: RPM's allowed will be determined by the NATPA RPM Chart. Any tractor not listed will use manufacturer's data. A 10% margin of error will be permitted. All tractors to have positive throttle stops with a working governor in the stock location.
8. Speed: Any gear, speed limit is 3.5 MPH, to be checked by radar. No shifting of TA's. One beep after flag/cone will result in disqualification. The marker for Div III speed will also be used as the mark to stop the tractor if driver wishes to restart pull.
9. Tractors manufactured to use diesel fuel only cannot be converted to gas or LP. Tractors must be naturally aspirated. No turbos or blowers - except Oliver 99GM, etc.
10. Tractors must have the stock engine, frames, transmission, rear end and axle housings or manufacturer's replacement **for make and model of tractor being pulled** . Stock

heads and their replacements are to remain unchanged in outside appearance. No 7 bolt main blocks in Oliver's; no (12) port heads; no 99 heads; no 1600 series heads. AC - WC/WD/WD45 can use D-17 engine; IH - H, 350; M, 450. JD - A/B/G can use power blocks. No M-M 800 heads or blocks. Dual exhaust not allowed except after stock manifold.

11. Enhanced electrical systems permitted in all classes. No rev limiters allowed.

12. Replacement carburetors with no modification of carburetor or manifold. Overhang of carburetor to manifold is not allowed. Only stock appearing manifolds are allowed.

13. No increased height in any tractors (ie: deck plates, shims, girdles) except for stock gasket.

**14. OL 66, Farmall H, AC WC, Ford 800, Cockshut 30 and above and like size tractors are not allowed in classes below 3500#. Massey 33, Oliver 77, JD-A 1939, McCormick 10-20, F-20 and down and like size tractors are not allowed in classes below 4000#. Oliver 88, Farmall M, Massey 44, MM-U, JD-G, Case-C/D, JD-A 1940 and up and like size tractors are not allowed in classes below 4500#. Massey 55, IH W-9, IH WK-40, Case LA, Case 600, Moline GB, Moline GBD, Oliver 99 and all like size tractors are not allowed below 5500#.**

\* 3250 This division will consist of the following tractors.

**AC-B, AC-C, Case VAC, IHC F-12, IHC F-14, IHC-B, IHC-C, JD-B 1938 Unstyled and Oliver 60.**

**AC-CA, Cockshutt 20, Ferguson TE-20, Ferguson TO-35, Ford NAA, Ford-600, Intercontinental C-26, IHC Super-C, IHC 200, IHC 230, JD-B Styled, Long A, MH 101-JR, MH-22, MM**

## Division IV NATPA Pulling Rules

Effective until 4/2013

Tractors 1957 and older or production models that started in 1957

Classes: 3250\*, 3500, 3750, 4000, 4250, 4500, 5000, 5500, 6000, 6500, 7500, & 8500#

1. General Rules – See general rules that apply to all tractors.
2. Age: Drivers must be 14 years of age or older. Those under 18 years of age must have written parental/guardian permission.
3. Safety: All tractors must have a working safety kill switch.
4. Draw Bar: Draw bars must not exceed 20 inches in height or be less than 18 inches from center of axle to hooking point. No part of draw bar may extend rearward beyond point of hook. Draw bars must be stationary in all directions. No clevises. Top of hitch adjuster cannot be above center line of axle or hub. (This wording add as per safety committee on 7/30/03 )
5. Weights: Weights must not extend rearward beyond rear tires and cannot be more than 11 feet from the center of the rear axle to the furthest point forward.
6. Tires and Rims: Maximum tire size - 18.4 X 38; any rim width. No radial tires. No steel wheels. Two wheel drive only. No duals. Any cut allowed on tires.
7. RPM's: RPM's allowed will be determined by the NATPA RPM Chart. Any tractor not listed will use manufacturer's data. A 20% margin of error will be permitted. All tractors to have positive throttle stops with a working governor in the stock location.
8. Speed: Any gear, any speed. Shifting of TA's allowed. The marker for Div III speed will also be used as the mark to stop the tractor if driver wishes to restart pull.
9. Tractors manufactured to use diesel fuel only cannot be converted to gas or LP. Tractors must be naturally aspirated. No turbos or blowers - except Oliver 99GM, etc.
10. Tractors must have the stock engine, frames, transmission, rear end and axle housings or manufacturer's replacement **for make and model of tractor being pulled** . Stock heads and their replacements are to remain unchanged in outside appearance. No 7 bolt main blocks in Oliver's; no (12) port heads; no 99 heads; no 1600 series heads. AC - WC/WD/WD45 can use D-17 engine; IH - H, 350; M, 450. JD - A/B/G can use power

blocks. No M-M 800 heads or blocks. Dual exhaust not allowed except after stock manifold.

11. Enhanced electrical systems permitted in all classes. No rev limiters allowed.

12. Any agricultural carburetor allowed. Number of barrels, throats, venture, etc, must be that of the manufacturer for that make and model. Exception: John Deere tractors may run updated (duplex) heads, manifolds and carburetors. Interior enhancement of stock or manufacturer's replacement manifolds permitted.

13. No increased height in any tractors (ie: deck plates, shims, girdles) except for stock gasket.

14. OL 66, Farmall H, AC WC, Ford 800, Cockshut 30 and above and like size tractors are not allowed in classes below 3500#. Massey 33, Oliver 77, JD-A 1939 and down, McCormick 10-20, F-20 and like size tractors are not allowed in classes below 4000#. Oliver 88, Farmall M, Massey 44, MM-U, JD-G, Case-C/D, JD-A 1940 and up and like size tractors are not allowed in classes below 4500#. Massey 55, IH W-9, IH WK-40, Case LA, Case 600, Moline GB, Moline GBD, Oliver 99 and all like size tractors are not allowed below 5500#

**15. All Div. IV tractors will be equipped with a dead man throttle.**

**16. All Div. IV tractors must have fenders. Fenders must be as high as the tallest part of the rear tire and must support the weight of the driver. There will be a 50 pound weight allowance for fenders**

**17. It is recommended that the tractor be equipped with a high back seat. ( Added as per board meeting of 3/29/07 .)**

**\* 3250 This division will consist of the following tractors.**

**AC-B, AC-C, Case VAC, IHC F-12, IHC F-14, IHC-B, IHC-C, JD-B 1938 Unstyled and Oliver 60.**

**AC-CA, Cockshutt 20, Ferguson TE-20, Ferguson TO-35, Ford NAA, Ford-600, Intercontinental C-26, IHC Super-C, IHC 200, IHC 230, JD-B Styled, Long A, MH 101-JR, MH-22, MM-R and MM-335**

**Division V NATPA Pulling Rules**  
**Effective until 4/2011**

Tractors 1959 and older Classes: 3500, 3750, 4000, 4500, 5000, 5500, 6000, 6500, 7500, and 8500#

1. General Rules – See general rules that apply to all tractors.
2. Age: Drivers must be 16 years of age or older. Those under 18 years of age must have written parental/guardian permission.
3. Safety: All tractors must have a working safety kill switch. Ladder bars, wide front ends, and use of rev limiters is highly recommend. All Div V tractors will have a 3/8 inch steel plate over the flywheel and clutch housing or a an approved scatter safety blanket may be used. Steel flywheels are highly recommended. (This change was mandated by the safety committee on 7/30/03.)
4. Draw Bar: Draw bar must not exceed 20 inches in height or be less than 18 inches from center of axle to hooking point. No part of draw bar may extend rearward beyond point of hook. Draw bars must be stationary in all directions. No clevises. Top of hitch adjuster cannot be above center line of axle or hub. (This wording add as per safety committee on 7/30/03)
5. Weights: Weights must not extend rearward beyond rear tires and cannot be more than 11 feet from the center of the rear axle to the furthest point forward.
6. Tires & Rims: Tire size maximum 18.4 X 38. Any rim width. No radial tires. No steel lug wheels. Two wheel drive only. No duals. Any cut allowed on tires.
7. RPM's: RPM's allowed will be determined by the NATPA RPM chart. Any tractor not listed will use manufacturers date. A maximum of 30% over stock RPM's will be permitted for each make and model of tractor. No tractor in Division V will be allowed over 3000 RPM's. Specifically, IH 660 will be allowed to run over 2575 RPM's only if it has the 460-560-660 series agricultural block and head built prior to 1964 and the 660 external planetary axles. Side shields are highly recommended. Enhanced electrical systems permitted in all classes. Rev limiters are allowed. All tractors must have a positive throttle stop with fully operational governor.
8. Speed: Any gear, any speed. Shifting of TA's allowed. The 50' marker will also be used as the mark to stop the tractor if driver wishes to restart pull.
9. Engine: Tractors must be naturally aspirated. No turbos or blowers - except two stroke GM diesels.

10. Tractors must have stock frame, transmission, rear ends and axle housing for make and model of tractor being pulled. Front axles must be safe, sturdy and similar to stock with a stock wheel base. Crank cases must bolt to transmission in a stock appearing manner, be of the same manufacturer as the original crank case, must be the same length as the original crank case and be the same number of cylinders as the original make and model of the tractor. Heads, blocks (jugs), manifolds must be of the same manufacturer as the crank case or that of a recognized replacement manufacturer.

11. Any updraft agricultural type carburetor will be allowed. Diesels must have the injection pump in the stock location. Diesel tractors may be converted to gas as long as they use gas heads and comply with all the other Division V rules.

12. Any integral plates, girdles or reinforcement devices that enhance the engine rigidity and improve safety will be allowed. Deck plates can be no thicker than 1" material; girdles can be no thicker than 1" material; spacer plates can be no thicker than 2" combined.

13. All Div. V tractors will be equipped with a dead man throttle.

14. All Div. V tractors must have fenders. Fenders must be as high as the tallest part of the rear tire and must support the weight of the driver. There will be a 50 pound weight allowance for fenders

15. It is recommended that the tractor be equipped with a high back seat. (Added as per board meeting of 3/29/07.)