

WESTERN PA ANTIQUE TRACTOR PULLERS ASSOCIATION
2020-2021-2022 RULES FOR ANTIQUE FARM TRACTORS

The WPATPA Rules include these six Categories:

- General Rules
- Division I Rules Differences (page 5)
- Division II Rules Differences (page 6)
- Division 2T Rules Differences (page 7)
- Division III Rules Differences (page 8)
- Division IV Rules Differences (page 9)
- Classic Division Rules Differences (page 10)
- Derby Style Rules Differences (page 10)

Rules Stand as Follows:

An Antique Farm Tractor is any tractor that was manufactured between 1900 and 1957. Any tractor model that began to be manufactured in 1957 may compete. Any John Deere 30 series may also compete. Tractors competing in Division IV and the Classic Division are the exception to the rule.

GENERAL RULES, ENFORCED FOR ALL DIVISIONS

1. Driver must remain seated on the tractor at all times while in motion and must be able to operate clutch and brakes while seated. No bouncing is permitted. No sitting on the rim of the seat is permitted. Hands must be on steering wheel, hand brake, hand clutch or throttle at all times during the pull. Driver must remain in seat while starting tractor.
2. Driver/Operator in Division I, II, and Classic must be 12 years old or older, in Division III must be 14 years old or older, in Division IV must be 16 years old or older. If under 18, parent or guardian must be present and a waiver form must be signed.
3. Drivers 16 and under must have wheelie bars and a working kill switch on the tractor.
4. Any tractor or driver found to be unsafe or illegal may be disqualified or barred from hooking. No alcoholic beverages will be permitted. Safe operation is a must. NO "HOT-RODDING"

5. No riders are permitted on pulling vehicle at any time, or disqualification will result.
6. No riders are permitted on the pull back tractor or sled, unless training a sled operator.
7. All drivers must wear a shirt and shoes to compete.
8. No smoking while pulling.
9. No dual wheels or tire chains permitted. Four wheel drive tractors may compete; front drive shaft must be removed. No radial tires except in Classic Division.
10. All tractors must have a working governor with a positive throttle stop. No exceptions.
11. Tractors must have stock engine, frame transmission, rear end and axle housings or manufacturer's replacement. No blowers or turbos will be permitted except Oliver 99 GM, etc.
12. No homemade tractors are able to compete.
13. Weights must be securely fastened to tractor and must be satisfactory to the Rules Committee. No weights permitted on seat or deck. Any part falling off the tractor after being hooked and until the tractor is unhooked will result in a disqualification. Nothing can touch the ground until the tractor is unhooked from the sled. Weights may not extend more than 6 inches beyond rear tires or original fenders. Foreign objects to be determined by Tech Committee.
14. Driver is allowed a total of 2 attempts as long as the front of the sled on the first attempt is stopped before the 50 foot mark. This does not apply to Derby Style Pulls.
15. Track flagman controls all starts and stops. Failure to follow flagman's directions will result in disqualification. Flag person must be approved by Tech Committee.
16. Rules Committee reserves the right to reweigh any tractor and/or recheck RPM or horsepower anytime during or after pull.
17. Pulls must start with the slack removed from chain. No Jerking.
18. Tractor tires must remain in-bound during pulling attempt. Sidelines of track will run forever with positive stop line.
19. Division I tractors may pull Division I only.
20. Tractors can pull in as many Divisions as qualified for, except Division I. An individual tractor may pull a maximum of two times per class. Trophies will be awarded to the first tractor/driver combination; if a tractor has two drivers per class, the second driver must pull exhibition. All exhibition pulls must meet tech requirements per class, except year, and be pulled at the end of each class. There will be no exhibition pulls during Derby pulls.
21. All tractors may be RPM checked at the end of the track after completion of pull.
22. No shifting of gears is permitted once a tractor has started down the track.
23. Engine RPM will be from the NATPA RPM chart, except for Division IV. All Division IV tractors 1958 and newer, the driver must provide stock RPM IT manual to determine 20% over stock.
24. All tractors must have a working air cleaner.
25. All tractors must operate on gas, diesel, or LP fuel.
26. All tractors must pass tech specifications before pulling.
27. Violators of any of the above rules will be disqualified for the class until tractor meets specifications.
28. Unruly or abusive conduct may result in immediate expulsion from all Pulls, and pending expulsion from the Club by action of the Board of Directors at the next Directors' meeting.

29. Any protest filed with the flag man or track person will result in both the tractor and the protester's tractor being checked. The protester must be a Puller in the same class. The protest must be made before the tractor leaves the end of the track; you must go to the flagger or tech person to protest a tractor. Once the tractor leaves the end of the track, no protest can be made. Rules Committee has the right to protest any tractor at any time on or off the track. All decisions are final. All Director's decisions are final. Directors have the right to stop the pull at any time.
30. Any exhibition puller with over 20% rated RPM must have a kill switch, scatter blanket, wheelie bars and side shields.
31. Wheelie bars are required in all Divisions. Minimum requirements for the wheelie bars are as follows: A: Pads = 5" square minimum, B: 10" maximum above ground. The back of the wheelie bar is to extend 5" behind the tire radius. C: Stabilizer bars and their assembly are not in any way to be connected to the draw bar and its assembly. D: Spaced a minimum of 20" from outside each pad.
Stabilizer bar system must be able to support the weight of the tractor in the heaviest class pulled. Jacking up the pads so the tractor is completely off the ground is a good test of the strength of the system's support ability. The WPATPA Tech Crew reserves the right to have the puller perform this test.
New members will have a 2-pull grace period to comply with the wheelie bar requirement. (see page 10)
32. Any tractor competing in a class over 8 MPH must have a wide front end.
33. Any tractor competing in a class over 15 MPH must be equipped with a safety cage and the driver must wear a DOT-approved fire suit and a full-faced helmet.

PROCEDURES

1. Each tractor must be weighed in and parked in spotting area before each pull.
2. Sign up for each class will be closed when the first puller in that class hooks to the sled. All exhibition pullers will be at the end of each class.
3. Each weight class will be divided into five divisions: Division I, Division II, Division III, Division IV and Classic Division.
4. Weight classes are 2750, 3000, 3250, 3500, 3750, 4000, 4500, 5000, 5500, 6000, 6500, 7000, 7500, 8000, 8500, 9500 for division I, II, III, IV, and Classic. The Classic Division will also include a 10,500 and 11,500 weight class.
5. All rules will be interpreted on the track by the Rules Tech Committee. If a problem persists the pull will be stopped, all Officers and Directors will meet on the track to make a decision, and this is final.
6. Sled will be spotted from starting line.
7. A tractor's wheelie bars will be tested at tractor heaviest class.
8. If tech safety violations are found at any point of the year all accumulated points to date will be forfeited.

DIVISION I RULE DIFFERENCES

1. Tractor cannot enter classes below its manufactured shipping weight.
2. Maximum tire size is 200 square inches unless equipped from the manufacture with larger size. Tires must be on the rim, width not exceeding tire manufacturer's recommended width. No cut tires.
3. 2.75 MPH speed limit. Use of T.A. is allowed.
4. Wheel weight or suitcase weights will be allowed. Suitcase weights hooking point may not be ahead of center point of tractor. Allowed front weight bracket but no weights. Weights cannot interfere with hook up.
5. Stock horsepower only. Tractor must have PTO but PTO does not have to be working.. Committee has the right to check any tractor.
6. Tractor may operate at Stock High Idle RPM. Disqualification if over revving occurs. Tachometer will be available. All tractors may be checked.
7. No electronic ignitions except electronic points replacement under distributor cap.
8. Maximum 16 inch height to top of draw-bar, stationary in all directions. Fast hitches must be locked at this height. Hitches must be as from factory-unaltered for that specific tractor. Minimum hitch length is 24 inches measured from center of rear axle to back of the pin hole. Clevis will be provided by Club.
9. Tractors must have stock appearance. Parts must be able to be found in OEM parts manual. Alternators and straight pipes are allowed.

No wheelie bars required except stated in General Rules. Front end height will be knee high at flagman discretion.

DIVISION II RULE DIFFERENCES

1. Maximum height of draw-bar, not over 18 inches, measured from top of draw-bar to the ground. Minimum length is 18 inches; this is measured from center line of rear axle to the back of hitch point. Minimum of 3- inch opening with 1 ½ inch maximum girth with a ¾ inch minimum thickness. Draw-bar must be stationary in all directions and must be rigid with no weights interfering with hook-up.
2. Maximum tire size for 2750 to 5500 pound classes is 15.5 x 38 or 229 square inches, for 6000 to 9500 pound classes is 16.9 x 38 unless equipped from the manufacturer with larger size. No cut tires. Road worn tires will be judged by the Rules Committee.
3. Gas tractors must run on stock carburetor from tractor manufacturer. Diesel tractors must run either on stock injector pump or stock replacement from tractor manufacturer. Tractor must use stock-appearing parts.
4. Tractor may operate at 10% over High Idle RPM. Disqualification if over revving occurs. A tachometer will be available and all tractors may be checked.
5. Front weights may not extend more than 11 feet from center of rear axle.
6. 3.0 MPH speed limit will be enforced. T.A. is allowed.
7. Manifolds must be factory replacement, no headers or homemade manifolds.

DIVISION 2T RULE DIFFERENCES

1. Tractors may compete up to and including 1960.
2. General Rules – See general rules that apply to all tractors.
3. Age: Drivers must be 14 years of age or older. Those under 18 years of age must have written parental/guardian permission.
4. Safety: All tractors must have a working safety kill switch.
5. Draw Bar: Minimum 18” back from the center of the rear axle and a maximum of 18” drawbar height. Hitch material cannot be thinner than $\frac{3}{4}$ ” and not thicker than 1.25”. Hitch has to have a 3.5” hole with 1” material thickness around the hole or a straight clevis bolted or pinned tightly to the drawbar with a minimum of 3.5” 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).
6. 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.
7. Tires and Rims: Maximum tire size – 2750-6500 maximum tire size is 16.9x38 on any width rim; 7000-9500 maximum tire size is 18.4x38 on any width rim. No radial tires. No steel wheels. Two wheel drive only. No duals. Top cut tires allowed-no cutting to the front edge of the tire is allowed.
8. 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.
9. Speed: Any gear, speed limit is 3 MPH, to be checked by radar. Shifting of TA’s is permitted. One beep after flag/cone will result in disqualification. The marker for Div 2T speed will also be used as the mark to stop the tractor if driver wishes to restart pull.
10. 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.
11. 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.
12. Enhanced electrical systems permitted in all classes. No rev limiters allowed.
13. Replacement carburetors with no modification of carburetor or manifold. Overhang of carburetor to manifold is not allowed. Only stock appearing manifolds are allowed.
14. No increased height in any tractors (ie: deck plates, shims, girdles) except for stock gasket.

DIVISION III RULES DIFFERENCES

1. Tractors may compete up to and including 1960.
2. All tractors must have a working kill switch.
3. 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 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.
4. Weights may not extend more than 6 inches beyond rear tires or original fenders. Weights cannot be more than 11 feet from the center of the rear axle to the furthest point forward.
5. Maximum tire size is 18.4 x 38 with any rim width. No radial tires allowed. No steel wheels. Two wheel drive only. No duals. Any cut allowed on tires.
6. Any tractor not listed will use manufacturer's data for RPM's. A 10% margin of error will be permitted. All tractors to have positive throttle stops with a working governor in the stock location.
7. Any gear is permitted, but speed limit is 4.0 MPH, to be checked by sled radar. Shifting of TAs is permitted. One beep after flag/cone will result in disqualification. The marker for Division III speed will also be used as the mark to stop the tractor if Driver wishes to restart pull.
8. 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 99 GM, etc.
9. Tractors must have the stock engine, frames, transmission, rear end and axle housings or manufacturer's replacement. Stock heads and their replacements are to remain unchanged in outside appearance. No 7 bolt main blocks in Olivers; 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
10. Enhanced Electrical Systems permitted in all classes. No rev limiters allowed.
11. Replacement carburetors with no modification of carburetor or manifold. Overhang of carburetor to manifold is not allowed. Only stock appearing manifolds are allowed.
12. No increased height in any tractor (i.e.: deck plates, shims, girdle) except for stock gasket.
13. Wheelie bar are required and must meet tech specifications (see reference sheet). If wheelie bars are attached to draw-bar, the draw-bar must be cradled. Recommended specs for wheelie bars can be found on following pages.

DIVISION IV RULE DIFFERENCES

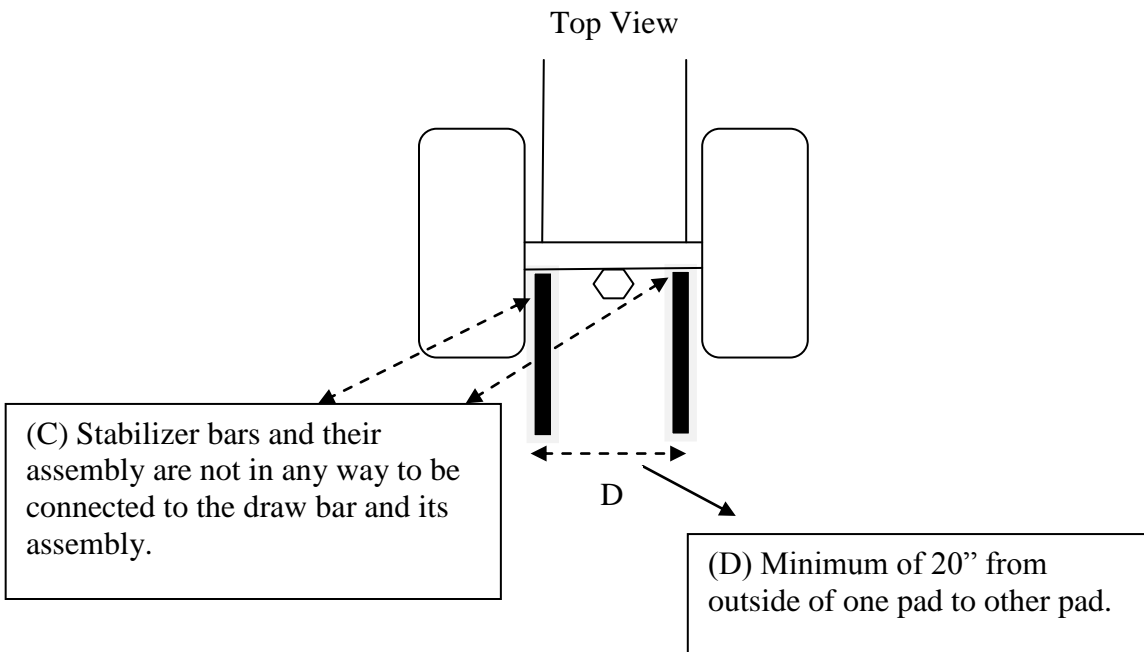
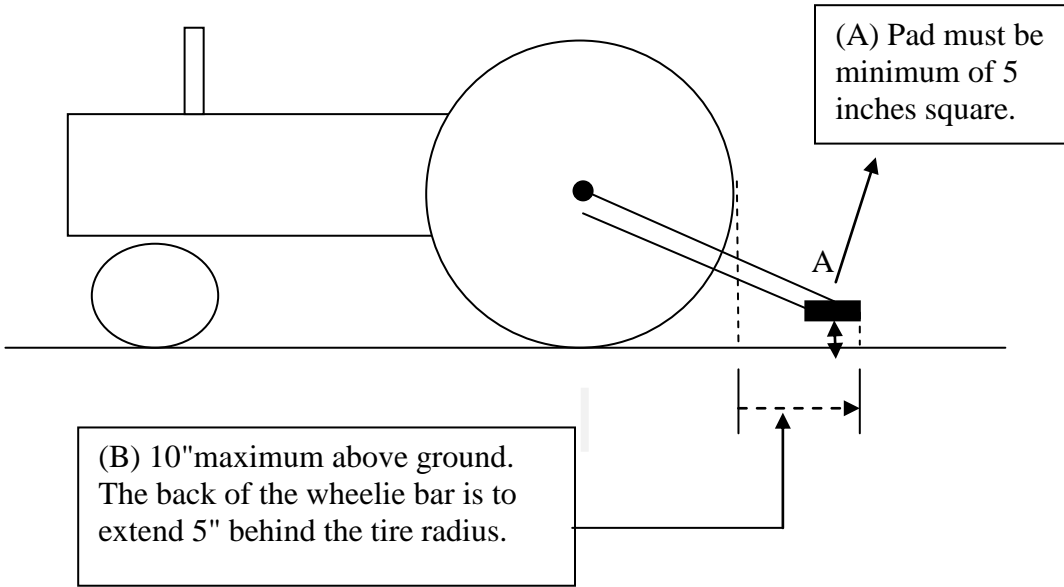
1. Tractors may compete up to and including 1960.
2. All tractors must have a working kill switch.
3. Draw-bars must not exceed 20 inches in height or be less than 18 inches from center of axle to hooking point. No part of draw-bar may extend rearward beyond point of hook. Draw-bars must be stationary in all directions. No clevises. Top of hitch adjuster cannot be above center line of axle or hub.
4. 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.
5. Maximum tire size is 18.4 x 38 and any rim width. No radial tires. No steel wheels. Two wheel drive only. No duals. Any cut allowed on tires.
6. RPMs 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.
7. Any gear is permitted, but speed limit is 15.0 MPH. Shifting of TA's is allowed. The marker for Division III speed will also be used as the mark to stop the tractor if driver wishes to restart pull.
8. 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 99 GM, etc.
9. Tractors must have the stock engine, frames, transmission, rear end and axle housings or manufacturer's replacement. Stock heads and their replacements are to remain unchanged in outside appearance. No 7 bolt main blocks in Olivers; no (12) port heads; no 99 heads; no 1600 series heads. AC-WC/WD/WD45 can use D17 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.
10. Enhanced electrical systems permitted in all classes. No rev limiters allowed. 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 is permitted.
11. No increased height in any tractors (i.e.: deck plates, shims, girdles) except for stock gasket.
12. All Division IV (4) tractors will be equipped with a dead man throttle.

CLASSIC DIVISION RULE DIFFERENCES

1. Maximum height of draw-bar, not over 18 inches, measured from top of draw-bar to the ground. Minimum length is 18 inches. This is measured from the center line of rear axle to the back of hitch point. Minimum of three inch openings with 1 ½ inch maximum girth with a ¾ inch minimum thickness. Draw-bar must be stationary in all directions and must be rigid with no weights interfering with hook-up.
2. Maximum tire size is 20.8 x 38 and radials are permitted. No cut tires. Road tires will be judged by the Rules Committee.
3. Gas Tractors must run on stock carburetor from tractor manufacturer. Diesel tractors must run on either stock injector pump or replacement from tractor manufacturer. Tractor must use stock-appearing part.
4. Tractor may operate on 10% over High Idle RPM. Disqualification if over revving occurs. A tachometer will be available and all tractors may be checked.
5. Front weights may not extend more than 11 feet from center of rear axle.
6. A 5 mph speed limit will be enforced and a T.A. is allowed.
7. Manifolds must be factory replacement. No headers or homemade manifolds.
8. Factory turbo kits are permitted.
9. A Classic is up to 1975 production year, all naturally aspirated unless factor equipped.
10. Anyone pulling Classic Division can only pull Classic.

DERBY STYLE RULE DIFFERENCES

1. All Derby pull tractors must meet the classification rules assigned to Division I, II, III, and IV tractors. This will be determined once a driver has decided which class he wants to pull in. Pulls will be in one direction.
2. A full pull is 20 feet. If a full pull is not made on the first attempt, a second attempt may be taken immediately or at the end of the round in pulling order. If driver chooses a second attempt, the first attempt will be voided and the 2nd attempt will be measured for the class final.
3. Boundaries include side lines and end lines. End lines may be crossed with the tractor, but not the sled.
4. Puller may pull for distance if to the end line is less than 20 feet, however If puller crosses the end line in attempt pull will be disqualified and no second attempt will be allowed.
5. Division II, III, and IV tractors will be combined. The Division II, III, and IV tractors must still follow the classification rules assigned to each Division with the only exception being the draw-bar height. Division II and IV tractors will pull with a maximum draw-bar height of 18 inches.



NATPA RPM CHART

Tractor	STD	10%	20%
ALLIS CHALMERS	Div I	Div II & III	Div. IV
A	1150	1265	1380
B,C,CA	1850	2035	2220
U	1200	1320	1440
WC, WD, WD-45	1720	1892	2064
WD-45Dsl	1975	2173	2370
D-17	1995	2195	2394
CASE	Div I	Div II & III	Div IV
C,CC,D,DC	1390	1529	1668
L,LA	1200	1320	1440
SC	1760	1936	2112
301, 311	1948	2143	2338
VAC,401	1600	1760	1920
500, 600, 900 Gas	1500	1650	1800
900Dsl	1635	1799	1962
COCKSHUTT	Div I	Div II & III	Div IV
20	2000	2200	2400
30	1850	2035	2220
40,50	1850	2035	2220
FARMALL	Div I	Div II & III	Div IV
A, B, F-12, F-14	1550	1705	1860
F-20, F-30, 10-20	1350	1485	1620
C, SC, 200	1815	1997	2178
300,350	1925	2118	2310
350-U	2200	2420	2640
H, Su H	1864	2050	2237
M, Su M, W-6	1600	1760	1920
400,450	1600	1760	1920
W-9, WD9	1650	1815	1980
W-40, WK-40	1925	2118	2310

NATPA RPM CHART

Tractor	STD	10%	20%
FORD	Div I	Div II & III	Div IV
8N	2330	2563	2796
9N	2200	2420	2640
960	2450	2695	2940
Ford SN Major Dsl	1900	2090	2280
JOHN DEERE	Div I	Div II & III	Div IV
A,G, 60, 70-G	1115	1227	1338
B, 50	1375	1513	1650
D	980	1078	1176
R, 70-D, 620	1250	1375	1500
720,820	1250	1375	1500
40,420	2025	2228	2430
MASSEY HARRIS	Div I	Div II & III	Div IV
33,333,444	1700	1870	2040
44,44-S,55	1500	1650	1800
101-JR(4 Cyl)	2050	2255	2460
101-SR (6 Cyl)	1980	2178	2376
MINNEAPOLIS MOLINE	Div I	Div II & III	Div IV
R, Z, 5-star, GBD	1650	1815	1980
U, UB,G	1430	1573	1716
OLIVER	Div I	Div II & III	Div IV
60	1650	1815	1980
70	1640	1804	1968
80, 99 (4 Cyl)	1300	1430	1560
Su55, Su66	2200	2420	2640
66	1750	1925	2100
77,88	1750	1925	2100
99-OM	1840	2024	2208
H-P 28-44	1250	137	15005
WARDS	Div I	Div II & III	Div IV
Custom	2075	2283	2490

CLASSIC Division RPM CHART

Tractor	Year	Rated RPM	10%
ALLIS CHALMERS			
D-10	57-67	1650	1815
D-12	57-67	1650	1815
D-14	60-61	1650	1815
D-15	62-68	2000	2200
D-17	58-67	1650	1815
D-19	58-64	2000	2200
D-21	63-69	2200	2420
190	64-72	2200	2420
190XT	64-71	2200	2420
CASE			
430	60-69	1750	1925
530	60-69	1900	2090
630	60-63	2250	2475
730	60-69	1900	2090
830	60-69	1900	2090
930	60-67	1800	1980
1030	66-69	2000	2200
DAVID BROWN			
850	60-65	2000	2200
770	65-70	2000	2200
880	61-71	1800	1980
990	61-80	2200	2420
1200	67-71	2200	2420
DEUTZ			
2505	65-67	1900	2090
3005	65-67	2300	2530
4005	65-67	2150	2365
4505	65-67	2300	2530
5505	65-66	2300	2530
8005	65-66	2300	2530
6006	66-67	2300	2530
9005	66-67	2300	2530
5005	67	2100	2310

CLASSIC Division RPM CHART

Tractor	Year	Rated RPM	10%
FORD			
611-681	57-61	2200	2420
801-881	58-62	2000	2200
971	58-62	2200	2420
2000	62-75	2000	2200
3000	65-75	2100	2310
4000	62-75	2200	2420
5000	62-75	2100	2310
6000	61-67	2430	2673
FARMALL			
240	58-63	2000	2200
340	58-63	2000	2200
460	58-63	1800	1980
560	58-63	1800	1980
660	59-63	2400	2640
404	61-68	2000	2200
504	61-68	2200	2420
606	63-64	1800	1980
706	63-67	2300	2530
806	63-67	2400	2640
1206	63-67	2400	2640
656	65-73	2300	2530
756	67-71	2300	2530
856	67-71	2400	2640
1256	67-69	2400	2640

CLASSIC Division RPM CHART

Tractor	Year	Rated RPM	10%
JOHN DEERE			
330	58-60	1650	1815
430	58-60	1850	2035
435	59-60	1850	2035
530	58-60	1325	1457
630	58-60	1125	1237
730	58-61	1125	1237
830	58-61	1125	1237
1010	60-65	2500	2750
2010	60-65	2500	2750
1020	65-73	2500	2750
2020	65-71	2500	2750
2510	65-68	2500	2750
3010	61-63	2200	2420
3020	64-72	2500	2750
4010	60-63	2200	2420
4020	63-72	2500	2750
5010	63-65	2200	2420
5020	65-72	2200	2420
MASSEY FERGUSON			
TO 35	57-61	2000	2200
35	60-65	2100	2310
50	57-64	2100	2310
65	57-64	2000	2200
85	58-62	2000	2200
88	59-62	2000	2200
Super 90	61-65	2000	2200
97	61-65	1600	1760
98	60-62	1675	1842
135	64-75	2250	2475
150	64-75	2250	2475
165	64-75	2000	2200
175	64-75	2000	2200
180	64-75	2000	2200
1100	64-72	2200	2420
1130	64-72	2200	2420

CLASSIC Division RPM CHART

Tractor	Year	Rated RPM	10%
MINNEAPOLIS MOLINE			
335	57-61	1600	1760
445	56-59	1550	1705
2 Star	58	1550	1705
Jet Star	59-62	1550	1705
4 Star	59-63	1600	1760
5 Star	57-60	1600	1760
GVI	59-62	1500	1650
Jet star 2	63	1600	1760
Jet star 3	64-70	1750	1925
U 302	64-70	1900	2090
M 5	60-63	1500	1650
M 504	62-63	1500	1650
M 602	63-64	1500	1650
G 705	62-65	1600	1760
G 707	65	1600	1760
G 900	66-69	1800	1980
G 1000	65-69	1800	1980
OLIVER			
440	60-63	1800	1980
550	58-75	2000	2200
660	59-64	2000	2200
770	58-67	1750	1925
880	58-63	1750	1925
950	58-61	1800	1980
990	58-61	1675	1842
995	58-61	1675	1842
500	61-66	2000	2200
600	62-64	2200	2420
1600	62-64	1900	2090
1800	60-64	2000	2200
1900	60-64	2000	2200
1450	67-69	1900	2090
1550	65-69	2200	2420
1650	64-69	2200	2420
1750	66-69	2400	2640
1850	64-69	2400	2640
1950	64-67	2400	2640
1950T	67-69	2400	2640