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Nebraska Tractor Tests

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January 1929

## Test 156: McCormick Deering 15-30

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UNIVERSITY OF NEBRASKA AGRICULTURAL ENGINEERING DEPARTMENT  
 AGRICULTURAL COLLEGE, LINCOLN

Copy of Report of Official Tractor Test No. 156

Dates of test: **March 30 to April 9, 1929**

Name, model and rating of tractor: **McCormick Deering (Model 15-30) 22 - 36**

Manufacturer: **International Harvester Company, Chicago, Illinois**

B R A K E H O R S E P O W E R T E S T S

	:Crank	: Fuel Consumption	:Water consumption	: Temp.	:	:	:	:	:	:
H. P.	:shaft	:	:per hour gallons	: Deg. F.	:Barometer	:	:	:	:	:
:	:speed	:Gals.	:H. P.	:lbs.@	:Cool-In	:	:Cool-	:	:Inches of	:
:	:R.P.M.	:per	:hrs.@	:H.P.	:ing fuel	:Total	:ing	:Air	:mercury	:
:	:	:hour	:gal.	:hour	:	:	:med.	:	:	:

OPERATING MAXIMUM LOAD TEST. ONE HOUR (97% of maximum load)

40.66	: 1050	: 4.070	: 9.99	: 0.637	: 0.0	: 2.56	: 2.56	: 177	: 76	: 28.58
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RATED LOAD TEST. ONE HOUR

36.15	: 1055	: 3.898	: 9.27	: 0.740	: 0.0	: 1.80	: 1.80	: 185	: 82	: 28.57
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\*VARYING LOAD TEST. TWO HOURS

36.67	: 1062	: 3.897	: 9.41	: 0.729	: 0.0	: - -	: - -	: 194	: 91	: - - -
0.89	: 1187	: 1.364	: 0.65	: 10.517	: 0.0	: - -	: - -	: 160	: 91	: - - -
19.42	: 1121	: 2.659	: 7.30	: 0.939	: 0.0	: - -	: - -	: 172.5	: 91.5	: - - -
39.02	: 1074	: 4.019	: 9.71	: 0.707	: 0.0	: - -	: - -	: 197	: 93	: - - -
9.90	: 1143	: 2.020	: 4.90	: 1.400	: 0.0	: - -	: - -	: 170.5	: 92.5	: - - -
28.09	: 1094	: 3.315	: 8.47	: 0.810	: 0.0	: - -	: - -	: 183.5	: 92	: - - -
22.85	: 1110	: 2.879	: 7.94	: 0.864	: 0.0	: 2.11	: 2.11	: 181	: 92	: 28.54

\*20 minute runs. Last line is average for two hours.

D R A W B A R H O R S E P O W E R T E S T S

	:Draw	:Speed	:Crank	:Slip	: Fuel Consumption	:Water	: Temp.	:	:	:
H. P.	:Bar	:miles	:shaft	: on	:H.P.	:LBS.	:used	:Barometer	:	:
:	:pull	:per	:speed	:drive	:Gal.	:hr.	:per	:Gal.	:Cool-	:Air
:	:pounds	:hour	:R.P.M.	:wheels	:per	:per	:H.P.	:per	:ing	:Inches of
:	:	:	:	: %	:hour	:gal.	:hour	:hour	:med	:mercury

RATED LOAD TEST. TEN HOURS. Intermediate Gear.

22.78	: 2258	: 3.78	: 1058	: 4.56	: 3.688	: 6.18	: 1.111	: 0.64	: 184	: 68	: 28.86
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MAXIMUM LOAD TEST

28.03	: 2846.5	: 3.69	: 1040	: 5.21	: ----Not Recorded ----			: 168	: 51	: 28.60
25.46	: 2190	: 4.36	: 1051	: 4.74	: "	: "	:	: 170	: 50	: 28.58
30.07	: 3912.5	: 2.88	: 1055	: 6.63	: "	: "	:	: 168	: 51	: 28.60

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BRIEF SPECIFICATIONS

MOTOR: Make Own Serial No. TG102912M Type 4 Cylinder Vertical  
Head "I" Mounting Lengthwise  
Bore and stroke: 4.75 x 6 in. Rated R.P.M. 1050  
Port Dia. Valves: Inlet 1.75" Exhaust 2"  
Belt pulley: Diam. 16.75 in. Face 9 in. R.P.M. 593  
Magneto: Own Model "E4A"  
Carburetor: Ensign Model "RW" Size 1 1/2"  
Governor: Own No. --- Type Fly-ball  
Air Cleaner: Fomona Type Oil filter  
Lubrication: Circulating and Splash

CHASSIS: Type 4 Wheels Serial No. TG102912M Drive Enclosed gear  
Clutch: Own Type Single plate operated by Foot  
Advertised speeds, miles per hour: Low 2.50  
Intermediate 3.25 High 3.75 Reverse 2.25  
Drive wheels: Diameter 50" Face 12"  
Lugs: Type Spade No. per wheel 48 Size 6" x 3 1/2 x 6 3/4  
Extension rims: Width 6" Seat Pressed Steel Base  
Total weight as tested (with operator) 7486 pounds.

FUEL AND OIL

Fuel: Kerosene Weight per gallon 6.86  
Oil: Mobiloil BB To fill crankcase 2.625 gallons  
Additional amount used during test 2.375 gallons  
Total number of hours of test 48.5

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REPAIRS AND ADJUSTMENTS

**No repairs or adjustments.**

REMARKS

The tests herein reported were conducted with one carburetor setting which remained unchanged throughout the tests. This condition should be recognized when comparing this test with any Nebraska test conducted prior to 1928.

In the advertising literature submitted with the specifications and application for test of this tractor we find no claims and statements which, in our opinion, are unreasonable or excessive.

The results of this test indicate that the rating of this tractor does not exceed the provisions of the tractor rating code of the American Society of Agricultural Engineers and the Society of Automotive Engineers.

We, the undersigned, certify that above is a true and correct report of official tractor test No. 156.

Lew Wallace  
Engineer-in-Charge

E. E. Brackett

C. W. Smith

E. B. Lewis

Board of Tractor Test Engineers