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January 1970

## Test 1054: Ford 2000 Gasoline 6-Speed (All Purpose)

Nebraska Tractor Test Lab

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# NEBRASKA TRACTOR TEST 1054 – FORD 2000 GASOLINE 6-SPEED (ALL-PURPOSE)

## POWER TAKE-OFF PERFORMANCE

Hp	Crank- shaft speed rpm	Fuel Consumption Gal per hr	Lb per hp-hr	Hp-hr per gal	Temperature Cooling medium	Degrees F Air wet bulb	Air dry bulb	Barometer inches of Mercury
<b>MAXIMUM POWER AND FUEL CONSUMPTION</b>								
<b>Rated Engine Speed—Two Hours (PTO Speed—597 rpm)</b>								
30.58	2001	2.817	0.567	10.86	202	55	75	29.083
<b>Standard Power Take-off Speed (540 rpm)—One Hour</b>								
29.24	1811	2.658	0.560	11.00	207	55	75	29.070
<b>VARYING POWER AND FUEL CONSUMPTION—Two Hours</b>								
27.14	2089	2.584	0.586	10.50	192	56	75	.....
0.00	2287	1.072	.....	.....	177	56	74	.....
14.18	2181	1.916	0.831	7.40	182	57	75	.....
30.48	2001	2.837	0.573	10.74	195	56	74	.....
7.26	2231	1.458	1.236	4.98	178	56	75	.....
20.83	2136	2.360	0.697	8.83	188	56	75	.....
Av 16.65	2154	2.038	0.753	8.17	185	56	75	29.040

## DRAWBAR PERFORMANCE

Hp.	Draw- bar pull lbs	Speed miles per hr	Crank- shaft speed rpm	Slip of drivers %	Fuel Consumption Gal per hr	Lb per hp-hr	Hp-hr per gal	Temp Cool- ing med	Degrees F Air wet bulb	Air dry bulb	Barometer inches of Mercury
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### VARYING DRAWBAR POWER AND FUEL CONSUMPTION WITH BALLAST

<b>Maximum Available Power—Two Hours—3rd Gear</b>											
26.35	2472	4.00	2003	6.47	2.779	0.649	9.48	178	51	57	28.930
<b>75% of Pull at Maximum Power—Ten Hours—3rd Gear</b>											
21.53	1920	4.21	2077	4.93	2.434	0.696	8.85	174	48	52	28.895
<b>50% of Pull at Maximum Power—Two Hours—3rd Gear</b>											
14.62	1224	4.48	2169	3.03	2.098	0.883	6.97	181	44	47	28.895
<b>MAXIMUM POWER WITH BALLAST</b>											
16.08	4535	1.33	2153	13.71	1st Gear	.....	177	49	55	28.940	
24.87	4188	2.23	2000	13.40	2nd Gear	.....	179	54	64	28.820	
27.13	2546	4.00	2002	6.55	3rd Gear	.....	180	54	61	28.820	
26.71	1814	5.52	1999	4.59	4th Gear	.....	179	54	64	28.820	
26.71	1361	7.36	2001	3.50	5th Gear	.....	177	54	64	28.820	

### MAXIMUM PULL WITHOUT BALLAST

19.60	3191	2.30	2108	14.75	2nd Gear	.....	173	39	42	29.250	
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### VARYING DRAWBAR PULL AND TRAVEL SPEED WITH BALLAST—3rd Gear

Pounds Pull	2546	2756	2882	2987	3044	3018
Horsepower	27.13	26.30	24.30	22.07	19.14	15.77
Crankshaft Speed rpm	2002	1802	1599	1405	1198	996
Miles Per Hour	4.00	3.58	3.16	2.77	2.36	1.96
Slip of Drivers %	6.55	6.86	7.27	7.47	7.47	7.67

### TIRES, BALLAST and WEIGHT

		With Ballast	Without Ballast
Rear tires	—No, size, ply & psi	Two 12.4-28; 4; 16	Two 12.4-28; 4; 12
Ballast	—Liquid	415 lb each	None
	—Cast iron	420 lb each	None
Front tires	—No, size, ply & psi	Two 5.50-16; 4; 36	Two 5.50-16; 4; 36
Ballast	—Liquid	48 lb each	None
	—Cast iron	90 lb each	None
Height of drawbar		25 inches	25½ inches
Static weight with operator—Rear		4120 lb	2450 lb
Front		1875 lb	1600 lb
Total		5995 lb	4050 lb

## Department of Agricultural Engineering

**Dates of Test:** September 29 to October 14, 1970

**Manufacturer:** Ford Motor Company, Birmingham, Michigan

**FUEL, OIL and TIME** Fuel regular gasoline Octane No Motor 84.3 Research 93.0 (rating taken from oil company's typical inspection data) Specific gravity converted to 60°/60° 0.7392 Weight per gallon 6.154 lb Oil SAE 10W-30 API service classification MS, DG, DM To motor 1.492 gal Drained from motor 1.391 gal Transmission and final-drive lubricant Ford oil M-2C53-A Total time engine was operated 41½ hours.

**ENGINE** Make Ford gasoline Type 3 cylinder vertical Serial No B200283 Crankshaft mounted lengthwise Rated rpm 2000 Bore and stroke 4.2" x 3.8" Compression ratio 7.5 to 1 Displacement 158 cu in Carburetor size 1¼" Ignition system battery Cranking system 12 volt electric Lubrication pressure Air cleaner dry type with replaceable paper element Oil filter full flow with replaceable cotton blend cartridge Fuel filter edge type filter in sediment bowl and nylon screen in fuel tank Muffler was used Cooling medium temperature control thermostat.

**CHASSIS** Type standard Serial No C-279890 Tread width rear 52" to 76" front 52" to 80" Wheel base 75.8" Center of gravity (without operator or ballast, with minimum tread, with fuel tank filled and tractor serviced for operation) Horizontal distance forward from center-line of rear wheels 32.8" Vertical distance above roadway 25.2" Horizontal distance from center of rear wheel tread 0" to the right/left Hydraulic control system direct engine drive Transmission selective gear fixed ratio Advertised speeds mph first 1.4 second 2.6 third 4.2 fourth 5.8 fifth 7.6 sixth 17.4 reverse 2.4 and 7.0 Clutch single plate dry disc with cerametallic buttons operated by foot pedal Brakes internal expanding shoe operated by two foot pedals that can be locked together Steering mechanical with power assist Turning radius (on concrete surface with brake applied) right 117" left 117" (on concrete surface without brake) right 129" left 129" Turning space diameter (on concrete surface with brake applied) right 240" left 240" (on concrete surface without brake) right 267" left 267" Belt pulley 1113 rpm at 2000 engine rpm diam 10¼" face 6½" Belt speed 2986 fpm Power take-off 537 rpm at 1800 engine rpm.

**REPAIRS and ADJUSTMENTS:** No repairs or adjustments.

**REMARKS:** All test results were determined from observed data obtained in accordance with the SAE and ASAE test code. Sixth gear was not run as it exceeded 15 m.p.h.

We, the undersigned, certify that this is a true and correct report of official Tractor Test 1054.

L. F. LARSEN

Engineer-in-Charge

G. W. STEINBRUEGGE, Chairman

W. E. SPLINTER

D. E. LANE

Board of Tractor Test Engineers

The University of Nebraska Agricultural Experiment Station  
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