

**UNIVERSITY OF NEBRASKA
AGRICULTURAL ENGINEERING DEPARTMENT
UNIVERSITY FARM, LINCOLN**

Record of Official Tractor Drawbar Horsepower Test.

Rated or maximum load Maximum Date Sept. 27, 1920. Test No. 64g
Name, model and rating of tractor Uncle Sam Model G-20 20-30
Serial No., Engine 226 -2JB., Serial No. Chassis 1152
Manufacturer U.S. Tractor & Machinery Co., Menasha, Wis.
Tractor submitted for test by " " " " " "
Tractor equipment Dixie Mod. 46C Mag., Bennett Carb.
Style and dimensions of lugs Spade 3 1/2" High
Size of drive wheels (circumference at face) (50+17) $\frac{\pi}{2}$ = 14.92'
Tractor operated by Booth & Laub Dynamometer car operated by Wallace
Dynamometer used Gulley Load used Dyn Car, Avery & Rollers

Kind of fuel Kerosene Test No. 119 Wt. per gal. 6.78 lbs.
Kind and grade of oil used in engine Mobiloil BB
Kind and grade of oil used in transmission " C

Fuel consumption:

Total for test, Gal. Not Recorded Gals. per hour Not Recorded
Gal. per H. P. hour " " H. P. hours per Gal. " "

Water consumption:

Total used in test, Gal. Not Recorded
Gal. per H. P. hour " "
H. P. hours per Gal. "

Weather conditions Clear with light wind
Sept. 28th-- " " " "

Condition of track Dry on top but wet under surface
Sept. 28th Very Good.

We the undersigned certify that this sheet and sheets Nos. 64g attached
hereto give a true and correct record of the official tractor test No. 64.

W.H. Booth Operator Lew Wallace Observer.
Fred N Laub Operator Fred R Nohavee Observer.
Fred R Nohavee
Engineer-in-charge.

64g

Sept 28, 1920.

Reading No. (1)	Time (2)	Engine Crank Shaft Speed		Drive Wheel Slippage				Oil Record (9)	Fuel Records		Draft by Water Record Pounds Guage (12)	Dynamometer Chart No. (13)	Average Draft (14)	Speed Miles per Hour (15)	Drawbar Horse Power (16)	Temperatures Degrees F.		Humidity % (19)	Barometer: Inches Mercury (20)
		Stop Watch Reading for (7) (3)	R. P. M. (4)	Revolutions Drive Wheels (5)	Distance by Face of Drive Wheel (Feet) (6)	Distance Measured on Ground (Feet) (7)	Slippage % of Column No. 6 (8)		(10)	(11)						*Cooling Fluid (17)	Atmosphere (18)		
** Observer							LOW GEAR												
1.	3:27	0.63	900	10	149.2	130.5				2250	g1	2510	2.35	15.75					
2.	3:30	0.50	1000	"	"	110.2				2250	g2	2699	2.50	18.03					
3.	3:45	0.525	1025	"	"	119.4				2500	g3	2927	2.58	20.17					
4.	3:50	0.60	950	"	"	103.6				2750	g4	3106	1.96	16.25					
5.							ON DIRT TRACK												
5.	3:55	0.528	950	"	"	97.8				2750	g5	3130	2.10	17.57					
							HIGH GEAR												
6.	4:05	0.55		"	"	128.0				2000	g6	2437	2.64	17.18					
7.	4:08	0.42		"	"	119.6				1850	g7	2316	3.24	19.99					
8.	4:10	0.57		"	"	115.3				2100	g8	2352	2.30	14.42					
-1.	5:49	0.54	980	10	149.2	122.3	18.03			3500	64RG1	3264	2.57	22.40	180	64			
2.	5:52	0.41	985	10	149.2	134.5	9.85			2500	RG2	2180	3.73	21.66	180	64			
																	27	28.9	

NOTE: Record all stops by the words "stop" and "start" in column (1) and record time. Number stops and give full data on each stop under remarks, next sheet.

*Taken in discharge line from engine.

**Each observer will write his initials at the head of each column in which he records his observations.