

RECORDS OF MAXIMUM BRAKE TEST AND PLOWING TEST AS PERFORMED BY THE VARIOUS ENGINES IN THE MOTOR COMPETITION, HELD AT WINNIPEG, JULY 5th TO 22nd, 1911, UNDER THE AUSPICES OF THE CANADIAN INDUSTRIAL EXHIBITION ASSOCIATION

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HALF HOUR MAXIMUM BRAKE TEST										PLOWING TEST									
ENTRY NUMBER	MAKER'S NAME	Total time running	Time lost due to engine	Average brake horse power developed	Revol. per minute of pulley	Revol. per minute of engine	Fuel used in pounds	Horse power hours per unit of fuel	Water used	Steam pressure	Number of Plows	Width of Plow	Maker of Plow	Miles Travelled (not including turns)	Length of Furrow in feet	No. Times across Field	Average Width of Plowed Land	Acres Plowed	
1	CLASS A—Gasoline International Harvester Co.	30	0	23.65	228.9	228.9	8.5	1.39	gals. 2.37		4	14	Oliver	4.4	3864.4	6	27.83	2.47	
2	CLASS B—Gasoline Kinnard Haines	29	0	29.4	375.5	851.0	10.5	1.4	2.50		4	14	Deere	7.3	"	10	44.9	3.98	
3	Avery Co.	30	0	23.85	1005.2	1005.2	10.45	1.14	0		3	14	P. & O.	7.3	"	10	35.9	3.18	
4	I. H. C.	30	0	31.74	264.0	264.0	10.4	1.53	2.18		5	14	P. & O.	4.4	"	6	34.5	3.06	
5	M. Rumely Co.	30	0	33.58	378.2	378.2	12.45	1.35	1.56		6	14	Rumely	4.4	"	6	40.2	3.57	
6	Cold Shapley & Muir	30	0	26.2	353.8	353.8	12.7	1.03	0		4	14	Cockshutt	4.4	"	6	26.6	2.36	
7	American Abell Co.	30	0	32.71	457.8	457.7	20.4	0.08	0		4	14	Deere	8.8	"	12	55.1	4.89	
8	Canadian American																		
9	CLASS C—Gasoline Kinnard Haines	30	0	46.34	306.7	612.3	14.3	1.62	3.4		6	14	Deere	7.3	"	10	66.1	5.86	
10	Sawyer-Massey Co.	25	0	51.85	288.0	576.0	14.6	1.78	5.2		6	14	Verity	7.3	"	10	68.2	6.05	
11	I. H. C.	30	0	58.4	327.4	327.4	20.5	1.42	6.7		10	14	P. & O.	4.4	"	6	67.6	6.00	
12	Gas Traction Co.	30	0	58.1	479.7	639.6	22.3	1.30	0		8	14	Deere	5.9	"	8	72.5	6.43	
13	I. H. C.	30	0	65.62	356.9	356.9	25.0	1.31	6.0		10	14	P. & O.	4.4	"	6	68.0	6.03	
14	Cold Shapley & Muir	30	0	39.53	280.6	280.6	16.2	1.22	0		5-6	14	Cockshutt	5.9	"	8	52.0	4.61	
15	Aultman-Taylor Machinery Co.	30	0	58.51	469.7	469.7	18.5	1.58	5.0		8	14	Deere	7.3	"	10	97.6	8.66	
16	Gaar Scott Co.	25	0	77.79	292.6	585.2	34.2	1.14	0		8-10	14	D. & M.	8.6	3782	12	109.4	9.49	
17	Buffalo Pitts Co.	30	0	54.18	320.8	481.2	22.6	1.2	1.72										
18	CLASS D—Kerosene I. H. C.	30	0	24.11	261.5	261.5	0.1g 14.4k	0.83	3.22		3	14	Oliver	4.4	3864.4	6	21.6	1.91	
19	I. H. C.	30	0	29.87	364.9	364.9	0.1g 20.6k	0.72	2.52		4.6	14	"	4.4	"	6	35.1	3.11	
20	I. H. C.	30	0	30.53	250.8	250.8	0.2g 14.2k	1.06	3.82		4	14	"	4.4	"	6	27.1	2.40	
21	M. Rumely Co.	30	0	32.19	365.7	365.7	0.8g 6.2k	0.947	1.4		4.5	14	"	5.9	"	8	40.6	3.61	
22	I. H. C.	30	0	64.52	343.7	343.7	0.3g 25.5k	1.24	4.92		10	14	"	4.4	"	6	68.0	6.03	
23	Gas Traction	30	0	49.58	507.2	676.3	1.2g 21.0k	1.12	0.82		6	14	Deere	7.3	"	10	67.6	6.00	
24	Kinnard Haines	30	0	57.16	312.4	515.2	1.5g 21.85k	1.224	2.12		8	14	"	7.3	"	10	92.0	8.16	
25	M. Rumely Co.	30	0	67.99	358.2	358.2	0.7g 33.05k	1.0072	21.5		8-10	14	"	5.7	3751	8	87.0	7.39	
26	CLASS E—Steam Buffalo Pitts Co.	30	0	97.72	277.9	277.9	358.5	13.63	239.0	147.3	6-8	14	"	4.3	3814	6	52.7	4.61	
27	American Abell Co.	30	0	101.31	238.6	238.6	308.5	16.74	251.6	156.14	8-10	14	Cockshutt	7.2	3818.4	10	114.7	10.0	
28	CLASS F—Steam Avery Co.	30	0	159.34	281.0	281.0	543.5	14.66	346.2	179.0	4-10	14	Deere	4.3	3764	6	57.3	4.95	
29	Gaar Scott Co.	30	0	150.72	285.9	285.9	335.0	22.5	246.2	151.2	6-10	14	M. and D.	4.0	133.8	16	168.5	5.17	
30	Sawyer-Massey Co.	30	0	144.59	245.8	245.8	420.0	17.21	306.8	162.4	Buffalo Pitts with draw and chain figures								
31	Sawyer-Massey Co.	30	0	118.59	267.0	267.0	279.0	21.25	185.6	167.14									

		PLOWING TEST																				Total Points
		Total Time Required Min.	Time Lost Due to Plow. Min.	Time Lost Due to Engine. Min.	Time Required Turning. Min.	Actual Time Plowing Min.	Acres Plowed per Hour	Miles Travelled per Acre Plowed	Average Draw-Bar Pull	Average Draw-Bar Horse Power	Fuel used, including turns	Draw-Bar Horse Power per unit of Fuel	Fuel used per Acre Plowed	Water Used	Water Used per acre Plowed	Average Draw-Bar Pull per 14-in. Plow	Draw-Bar Horse Power per 1 Acre per Hr.	Possible Miles Travelled Without Replenishing Fuel	Possible Acres Plowed Without Replenishing Fuel	Cost of Fuel per Acre Plowed \$	Water Per D.B.H.P. Hrs., lbs.	
161	1'	1.5'	4	144	1.03	1.78	2650	12.93	40.1	7.74	lbs. 16.23	99.9	40.5	662.5	12.55	22.5	12.6	4638	3.22	387.7		
206	1.5	0	7	190.5	1.25	1.83	2985	18.75	63.3	9.40	15.92	179.6	45.1	762.5	15.0	16.4	8.95	4548	3.02	414.2		
242.5	26	2	10.5	195	.98	2.3	1800	10.81	69.8	5.02	21.95	13.1	4.12	600	11.04	15.7	6.85	6271	3.73	365.7		
2-10'	1	.5	5	125.5	1.46	1.44	3150	17.64	33.7	10.95	11.01	178.8	58.4	787.5	12.08	28.5	19.8	315	4.85	413.5		
159	0	0	6	145	1.47	1.23	3800	18.42	68.4	6.51	19.16	78.1	21.8	633.3	12.53	11.2	9.1	5474	1.76	378.9		
167.5	0	.5	6	157	.90	1.87	3000	13.43	53	6.63	22.45	91.8	38.9	750	14.92	17.6	9.4	6414	2.61	356.7		
276	0	.5	11	262	1.11	1.80	3000	16.09	112.3	6.26	22.96	0	0	750	14.5	24.2	3.4	6560	0	368		
215	0	4	7	204	1.72	1.20	4500	25.84	96.5	9.10	16.47	275	46.76	750	15.01	13.1	10.5	4705	3.13	413.8		
278.5	0	11	11	253	1.43	1.17	5100	25.00	119.8	8.80	19.80	647.3	107	900	17.48	19.8	16.5	3657	6.14	409		
150	0	0	7	139	2.59	.73	6400	32.36	74.8	10.21	12.47	306	51	640	12.49	16.1	22	3563	4.08	403.4		
174	0	0	7	167	2.30	.92	5800	32.54	34.4	9.59	14.68	0	0	675	14.15	26.3	28.6	4194	0	423.9		
149	1	1.0	6	140.5	2.58	.73	6650	33.27	81.9	9.51	13.58	345.7	57.3	665	12.90	17.2	23.6	388	4.44	395.3		
222.5	0	1.5	7	212.5	1.30	1.28	3400	15.00	116.7	4.55	25.31	99.4	21.57	680	11.54	19.6	15.3	7231	1.87	328.6		
210	1	3	8	195	2.66	.825	5450	32.73	117.2	9.07	13.53	513.9	59.34	681	12.30	21.8	25.8	3866	4.83	420.4		
328	13	2.3	11	257	2.21	.91	5450	29.17	328.7	3.8	34.63	244.8	25.79	681	13.2	16.8	18.6	9894	1.96	343.5		
150.5	7	0	4	139	.82	2.30	2275	11.50	1.1G 45.7K	5.69	24.5	140	73.3	758	14.02	22.4	9.7	3724	5.25	389.4		
217	0	5	5	172	1.08	1.41	4000	16.35	1.6G 91.4K	5.04	29.90	175	56.27	784	15.14	12	8.5	4545	3.74	327.9		
146	16	5	5	120	1.2	1.83	2700	15.81	1.1G 72.8K	4.28	30.79	110	45.8	675	13.17	14.9	8.15	4680	3.48	358.6		
202	0	1	7	177.5	1.22	1.63	3400	17.95	.6G 95.5K	5.95	26.48	137.8	38.17	800	14.76	12.4	7.6	4025	2.60	403.4		
142.5	1	0	5	132	2.74	.73	6300	33.54	115.8K	6.34	19.28	279	46.27	630	12.24	12.2	16.7	2931	3.78	334		
201.5	0	0	9	192.5	1.87	1.46	4975	30.27	3.5G 128.3K	7.37	21.99	81.3	13.55	829	16.19	29	23.8	3339	.837	424.3		
234.5	0	6	8	218	2.24	.86	5900	31.70	12.5G 128.2K	8.19	17.24	220	26.96	787.5	14.15	17.4	19.5	2824	1.91	425.1		
225	0	0	7	192	2.34	.76	6100	30.78	1G 177.3K	5.52	23.80	187.5	25.03	684	13.15	17	22.3	3618	1.90	412.5		
201	7	10	6	132	2.09	.935	5908	31.05	1088.5	6.273	236.1	5942	1289	787	14.85	4.5	4.8	1.003	86.98	395.4		
269	8	14	16	208	2.88	.72	6600	36.70	1892	6.723	189.2	14330	1433	673	12.74	2	2.8	.804	112.7	439.4		
274.5	5.5	0	10.5	91	3.26	.87	4750	35.73	1029	5.267	208.0	7360	1487	655	10.96	6.3	7.26	.884	135.8	403.6		