

JUDGES' RECORD SHEET 1910 MOTOR CONTEST

RECHECKED AND VERIFIED AS CORRECT BY ENGINEERS IN CHARGE, PROFS. A. R. GREIG AND L. J. SMITH

CLASS	Entry Number	MAKER'S NAME	ENGINE DATA																TWO HOUR BRAKE TEST																			
			Cylinders			Rated R. P. M.		H. P.		Pulley		Drivers		Speeds in M. per Hr.		Capacity of Fuel Tank Imp. Gals.	Capacity of Water Tanks Imp. Gals.	Weight, lbs.		Piston Rod Diam.	Piston Speed feet per min.	Area of Piston Sq. Ft.	Piston displacement Cub. Ft. per min.	Circum'ne Engine Pulley	Authorized Steam Pressure	H.P. Developed	R. P.M. Eng. Pulley	Gals. Water Used	Per cent. Water used	Fuel Used, Lbs.	Per cent Fuel Used	H.P. Hrs. per Unit Fuel. †	Total running time	Lbs. water evaporated per lb. Fuel	H.P. Hrs. per 100 gal. water.	Mean Effective Press' in Cylinder	H.P. 2 Hr. Test Max. Test	Ave. E. Steam Pressure
			Number	Diameter	Stroke	Engine	Pulley	Nominal	Specified Brake	Diameter	Face	Diameter	Face	High	Low			Total	On Drivers																			
A. Internal Combustion 20 B. H.P. and under.	1	International Har. Co. . . .	1	8	14	250-300	250-300	15	18	36	9½	56	22	2.10	1.75	23.7	30	10,500	7,100	\$1,720.00	583.3-700	.349	203.6-244.3	114 *	15.28	249	7.8	26	21.5	90.7	9.94	2 hrs.	3.63	391	69.6	...		
	5	Avery Co.	4	4½	5	1000	1000	12	36	8½	10	40	6	10	to 2	19	7.5	6,000	2,500	2,500.0	833.3	.123	102.5	27½ *	14.16	11.27	4.3	57.3	35.5	26.7	5.58	2 hrs.	1.21	659	28.08	.74	...	
B. Internal Combustion 21 to 30 B. H.P.	2	Avery Co.	1	12	18	350	350	25	25	40	11	65	20	3	1	41	47.5	12,000	...	2,000.00	583.3	.442	257.8	127 11-16*	20.69	254	4.5	13.5	35.5	17.6	5.71	1.24m	1.27	644	31.7	...	...	
	3	Goold, Shapley & Muir Co.*	2	7½	10	350-400	350-400	20	28	18	9	70	22	2.5	2	41	37	11,000	7,800	2,300.00	583.3-666.7	.307	179.1-204.7	69¾ *	28.13	350	1.1	3.05	40.5	14.5	9.48	1.57m	0.27	4015	72	.82	...	
	4	International Har. Co.	1	8½	15	240-300	240-300	20	23	40	10½	70	20	2.10	1.75	30	44	14,200	10,100	2,300.00	600-750	.418	250.8-313.5	125½ *	22.11	235	10.0	22.7	28.5	17.2	10.86	2 hrs.	3.51	442	82.6	.98	...	
	6	Birrell Motor Plow Co.	4	8½	10	300-350	240	22	45	34	9	78	24	2.5		39.5	130	22,000	15,000	3,200.00	500-583	.394	197 -229.7	106¾ *	27.21	203	3.1	2.4	65	23.5	5.86	2 hrs.	0.48	1755	32.5	.93	...	
C Internal Combustion Over 30 B. H.P.	7	Gas Traction Co.	4	6	8	550-650	550-650	25	45	18½	9	96	24	2	1½	45.6	90	...	...	3,000 cash	733.3-866.7	.196	143.7-169.9	59½ *	34.66	597	0	0	70	22.0	6.93	2 hrs.	0	...	50.8	.99	...	
	8	Goold, Shapley & Muir Co.	2	9½	13	325-375	325-375	30	45	26	9	8½	26	2½	2	49	102	17,730	12,600	2,775.00	704.2-812.5	.492	346.5-399.7	92¾ *	34.86	304	4.4	4.3	77	22.5	6.34	2 hrs.	0.57	1584	49.3	.90	...	
	9	International Har. Co.	2	9	14	320-340	320-340	45	55	28	10½	75	24	2	2.1	39	112.5	20,990	15,040	2,700.00	700	.492	344.4	89½ *	46.49	344	15.0	13.3	35½	20.3	11.78	2 hrs.	2.71	620	60.06	.97	...	
	10	Kinnard Haines.	4	7½	8	500	300	40	60	34	10	96	24	2.25		39	277	19,000	...	3,400.00	666.7	.307	204.7	104¾ *	49.76	297	0	0	64	23.4	10.88	2 hrs.	0	...	56.32	.99	...	
D—Steam. 60 B.H.P. under	18	Gas Traction Co.	4	6½	8	550	450	20	60	24	9	96	24	3	2	51	81	17,500	12,000	3,500 cash	733.3	.230	168.7	74½ *	51.84	493	0	0	67	18.8	10.83	2 hrs.	0	...	64.2	.96	...	
	11	Rumely Co.	2	10	12	375	375	25	50	36	11	64	26	1.9		80 ker. .67 gas.	112	26,700	17,800	3,400.00	750	.545	408.7	113½ *	46.8	378	8.6	7.67	106k 1½ g	132.5	6.88	2 hrs.	.80	...	52.0	.95	...	
	12	J. I. Case, 36 B. H.P.	1	8½	10	250	250	...	36	40	10.5	66	20	2.4		18 cu.ft.	143	17,475	13,975	1,812.50	1 5-16"	416.7	.367	152.9	124¾ *	44.25	264	252.3	176	3.50	34.1	25.28	2 hrs.	7.2	35.1	62.2	.74	134
E Steam 60 to 90 Brake H. P. .	13	Avery Co. 60 B.H.P.*	2	6	10	250	250	20	60	40	11	65	20	1.5	4	26 cu.ft.	303	26,000	18,000	3,200.00	1½ *	416.7	.193	...	106½ *	66.79	256	398.7	132	556	39.6	24.02	2 hrs.	7.17	33.5	93.03	.69	169
	14	J. I. Case, 75 B. H.P.*	1	11	11	250	250	...	75	40	12	72	24	2.6		25.4 cu.ft.	217	25,800	20,400	2,593.75	1 9-16"	458.3	.652	...	125 *	61.69	265	364.5	168	443	32.3	27.85	2 hrs.	8.22	33.8	44.6	.65	136
F Steam 91 and above Brake H.P.	15	Avery Co., 90 B.H.P.	2	7	10	250	250	30	90	40	12	80	26	1.5	4.5	13 cu.ft.	371	36,000	24,000	4,000.00	1½ *	416.7	.264	...	125½ *	97.08	265	611.2	165	701½	100	27.66	2 hrs.	8.71	31.7	95.54	.78	189
	16	J. I. Case, 110 B. H.P.	1	12	12	230	230	...	110	43.5	16	84	36	2.37		39.4 cu.ft.	305	40,460	31,560	3,744.00	1 15-16"	460	.775	...	137 *	98.61	233	604	198	606	28.4	32.54	2 hrs.	9.97	32.6	62.6	.76	156
	17	Rumely Co., 120 B. H.P.	2	7½	14	250	250	36	120	41	12	84	30	2.03		28.12 cu.ft.	500	46,480	30,985	4,300.00	1 13"	583.3	.261	...	129 15-16"	105.86	247	623	125	861	56.6	24.59	2 hrs.	7.24	34.0	65.1	.78	175

*These engines developed more than their allotted horse power, which threw them out of their class, consequently they were disqualified.

CLASS	Entry Number	MAKER'S NAME	HALF HOUR MAXIMUM BRAKE TEST								Plows					PLOWING TEST																		
			H.P. Developed	R. P. M. Eng. Pulley	Gals. Water Used	Fuel Used, Lbs.	H.P. Hrs. per Unit Fuel	Total running time	M. E. Pressure	Ave. Steam Pressure	Entry Number	Number	Width	Make	Miles travelled	Acres plowed	Time, minutes	Acres per Hr.	Average Draw bar Pull, lbs.	Fuel used, lbs.	Fuel used lbs. per acre	Water used, gal.	Water used per acre	D. R. Pull per 1 inch width of furrow	D. R. H.P. lbs. per acre plowed	Fuel Used, gals. per acre	Drawbar H.P.	D. R. H.P. Brake H.P. %	D.B. H.P. Max. E. H.P. in. %	D. B. H.P. Hrs. per unit Fuel	Per cent water used per acre	Acres plowed per Max. E. H.P. Hr.	Per cent Fuel per mile	Total points allowed in Judging Engines
A. Internal Combustion 20 B. H.P. and under.	1	International Har. Co. . . .	15.5	247	2.75	6½	8.67	30 min	70.7	.....	1	2	14"	Oliver	12.49	3.91	299	0.72	1705	81.5	22.58	27.9	7.72	60.8	15.72	3.23	11.39	75	73.5	4.87	25.7	.046	3.93	306.7
	5	Avery Co.	19.2	1173	1.15	11.75	5.7	30 min	39.6	.....	5	3	14"	P. & O.	7.14	3.20	255	0.75	1980	75.5	23.59	3.6	1.12	47.1	11.78	3.37	8.87	62.5	46.1	3.49	15	.099	7.95	275.3
B. Internal Combustion 21 to 30 B. H.P.	2	Avery Co.	No test on maximum or plowing								2																							
	3	Goold, Shapley & Muir Co.*	34.15	363	1	7	7.9	14 min	84.2	.....	3	6	12"	Verity	8.92	6.65	369	1.08	3250	152.5	22.93	5.4	.81	45.1	11.63	3.28	12.58	44.7	36.9	3.55	.22	.031	5.95	292.2
	4	International Har. Co.	22.6	240	2.75	9.5	8.32	30 min	82.7	.....	4	4	14"	Oliver	8.92	5.00	222	1.35	2450	76.5	15.3	30.0	6.00	43.8	11.66	2.19	15.75	71.1	69.5	5.33	14	.058	4.08	329.3
	6	Birrell Motor Plow Co.	29.1	199	2.7	17.5	5.8	30 min	50.9	.....	6	.....	14"	Moline	3.57	2.73	159	1.03	.....	93	34.00	10.0	3.66	.....	.....	4.86	.....	.....	.....	.....	.035	.....	.....	
C Internal Combustion Over 30 B. H.P.	7	Gas Traction Co.	35.1	616	0	23	5.3	30 min	50.0	.....	7	6	14"	Cockshutt	12.49	10.6	375	1.70	4550	179.5	16.93		0	54.16	14.3	2.42	24.24	69.8	69.0	5.91	0	.048	4.5	334.0
	8	Goold, Shapley & Muir Co.	38.8	335	1.2	24.5	5.5	30 min	49.8	.....	8	6	14"	Cockshutt	10.70	8.82	390	1.36	4200	240.5	27.26	5.3	.60	50.0	13.58	3.89	18.44	52.9	47.6	3.49	.06	.035	.655	274.6
	9	International Har. Co.	47.8	345	4.0	19.25	8.7	30 min	61.6	.....	9	10	14"	P & O.	12.49	17.59	416	2.54	7350	260	14.78	119	6.76	52.5	13.9	2.11	35.30	75.8	73.8	6.59	6	.053	7.63	350.1
	10	Kinnard Haines.	50.2	302	12.3	12.0	14.6	30 min	55.9	.....	10	6	.....	Jno. Deere					Test not completed															
	18	Gas Traction Co.	53.9	489	0	20.5	9.2	30 min	67.28	.....	18	7	14"	Jno Deere	12.49	12.43	408	1.83	5400	199.5	16.05	0	.....	55.1	14.46	2.20	26.41	51.1	49.2	6.32	0	.034	4.47	354.4
D—Steam. 50 B.H.P. and under	11	Rumely Co.	49.2	372	3.4	34k 1½ g	5.49	30 min	55.6	.....	11	8	14	Rumely	10.70	12.01	356	2.02	5500	329k 3g	27.64	27.7	2.3	4.91	13.06	3.49	26.45	56.5	53.8	3.71	2	.041	4.88	not scored
	12	J. I. Case, 36 H.H.P.	60.0	268	99.7	171	17.5	30 min	83.9	131	12	4	14"	Cockshutt	16.05	8.98	412	1.31	3580	1420	158.1	864	96.21	63.9	17.06	....	22.31	50.5	37.2	10.78	67	.022	9.09	267.6
E Steam 60 to 90 Brake H. P.	13	Avery Co. 60 B.H.P.*	96.6	276	149.5	238	20.3	30 min	124.8	167	13	8	14"	Cockshutt	5.35	6.06	170	2.14	6900	892	147.2	828.6	136.7	61.6	16.24	....	34.74	52.01	36	11.04	45	.022	11.87	269.3
	14	J. I. Case 75 B.H.P.*	94.3	255	143.3	192	24.6	30 min	70.8	135	14	8	14"	Cockshutt	17.84	20.17	413	2.93	6850	2432	120.6	1969	92.6	61.2	16.15	....	47.34	76.6	50.1	13.4	42.7	.031	9.93	297
F Steam 91 and above Brake H.P.	15	Avery Co. 90 B.H.P.	124.4	240	275.4	517	12.0	30 min	135.2	189	15	12	14"	Cockshutt	7.14	12.16	201	3.63	11500	1820	149.6	1308	107.6	68.4	18.01	....	65.36	67.3	52.5	12.03	29	.029	36.28	291.9
	16	J. I. Case 110 B.H.P.	129.0	225	227.4	278	23.4	30 min	84.8	157	16	12	14"	Cockshutt	21.45	33.08	497	3.99	10860	3282	99.20	2713	82.01	64.6	18.78	....	74.92	75.9	58.0	18.92	27	.031	7.19	356.1
	17	Rumely Co. 120 B. H.P.	132.07 135.8	243	320.8	511	17.6	10 min 30 min	84.8	176	17	14	14"	Jno. Deere	12.48	24.07	381	3.79	10700	2910	120.8	2244	93.22	54.6	14.79	....	56.08	53.0	41.3	12.23	14.6	.027	15.33	280.8