COURT COMMISSIONERS

DISCHARGE OBSERVATIONS

" TANNER RACE"

" CITY RACE "

" FACTORY RACE"

" EAST UNION"

1902 to 1915 incl.

Tabulated from original notes of Commissioners

by

T.F.Wentz

June 1916.

DISCHARGE OBSERVATIONS PROVO CITY AND FACTORY RACE.

OBSERVATIONS made by H F.Thomas, Tabulated by T.F.Wentz from Commissioner's Records.

Date	Tanner Race	City Race	Factory Race	East Union	Total	Waterworks
June 23,1902	7.42	12.16	25.60	22.11	67.29	
July 1,1902	9.28	14.71	23.43	20.50	67.92	
July 1 "			30.92(At Factory)			
July 11 "	6.87		28.26(At Factory)			
July 12 "		15.94	26.90	20.50		
July 28 "	5.07	12.26	24.27	20.35	61.95	6.00
Aug.6 1902	13.33est.	13.33 est.	25.est	20.50est	72.16(Estimated)	
Aug 19 "	6.67	10.00 est	21.67est	20.00est	58.34(Estimated)	6.00
Aug 27 "	4.90	9.84	21.37	19.89	57.00	6.00
April3 1903	13.96	16.81	73.39			
May 6 "	10. est	15. est	36.54	11.66	73.20 Est	6.00
June 17 "	27.00	21.31	69.66	33.73	151.70	4.00
June 29 "	14.65	17.60	30.28	17.60	80.13	6.00
July 6 "	8.41	13.01	26.07	12.18	59.67	6.00
July 14 "	10.95	12.26est	25.00est	20.35	68.56 est	6.00
July 28 "	8.19	11.88	25.23	10.33	55.63	6.00*
July 28 "	The following note; Measurement of the settling basins this day shows much smaller amount.though difficult to measure used old measurement					
Aug 13,1903	9.41	13.32	21.28	18.70	62.71	est 6.00
June 20,1904	20.02	30.43	69.37	35.03	154.85	
June 20 "	This note preceds the observations; Measurements were taken for the purpose of obtaining a High water measurement.					
July 2 1904	10.97	20.15	44.74	41.65	117.51	
July 11 "	7.43	10.85	31.05	32.27	81.40	
July 20 "	14.80	15.67	41.97	19.26	91.70	
July 30 "	16.73	16.86	35.98	20.38	89.95	
Aug 8 1904	15.95	14.92	33.35	20.19	84.41	
Aug.24 "	11.33	12.74	37.70	14.93	76.70	
June 6 1905	24.58	29.15	86.56	39.38	179.67	
June 27 "	12.47	17.54	22.89	16.26	69.16	
June 30 "	5.40	7.69	19.91	13.24	46.24	
July 10 "	10.11	13.89	18.20			
July 12 "	17.25					
July 25 "	9.03	12.78	23.32	10.39	55.52	
Aug. 22 "	7.13	10.54	20.86	10.63	49.16	
July 13 1906	14.80	21.90	49.99	25.35	112.04	8.33
1907 No Record.						
July 9,1908	12.85	14.26	31.39	18.95	77.45	5.00est
1909 No Record.						

Note: In the above totals the waterworks system is excluded.

Discharge Observations of Provo City and Factory Race 2.

Date	Tanner Race	City Race	Factory Race	East Union	Total	Waterworks
June 23,1910	13.27	19.00	33.86	30.29	96.42	8.33 est
June 23	" This note appears at waterworks amount"Estimated and agreed upon"					
[redacted]	10.58	16.68	27.54	16.13	70.93	8.33 est

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[redacted]	.65	12.22	37.10	16.50	77.47	8.33

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DISCHARGE OBSERVATIONS PROVO CITY AND FACTORY RACE.

Observations made by T.J.Farrer,Tabulated by T.F.Wentz from Commissioner's Records.

Date	Tanner Race	City Race	Factory Race	East Union	Total	Waterworks.
July 8,1912	8.75	14.42	28.30	21.21	72.68	
July 11 "	11.22		31.41			
July 25 "	11.77	20.77		19.60		
Aug 24 1912	9.80	17.11	36.08	16.18	79.17	
Aug. 26 "	10.92	15.08	36.00	16.53	78.53	

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June 2 1913	25.11	32.47	74.91	40.01	172.50	
June 17 "	11.46	11.97	32.71	21.03	77.17	

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DISCHARGE OBSERVATIONS PROVO CITY AND FACTORY RACE.

Observations made by T.F.Wentz,tabulated from Commissioners Records by T.F.Wentz.

Date	Tanner Race	City Race	Factory Race	East Union	Total
July 12,1913	15.20	20.61	39.67	24.24	99.72
Aug. 4 "	11.14	15.87	31.67	12.98	71.66
Aug.8 "	13.04	17.24	39.54	17.52	87.34
Aug.29 "	8.22	14.48	34.66	16.70	74.06
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June 3 1914	17.67	27.79	73.77	34.94	154.17
June 26 "	16.52	29.00	49.19	27.36	122.07
July 8 "	13.81	28.00	58.00	21.41	121.22
July 18 "	4.41	10.89	34.17	18.67	68.14
July 22 "	16.52	20.80	51.50	21.88	110.70
July 25 "	13.49	20.80	48.50	24.35	107.14
Aug. 1 1914	14.17	22.00	50.00	19.87	106.04
Aug 3 "	12.74	15.40	33.00	21.41	82.55
Aug. 6 "	14.17	25.80	63.50	19.87	123.54 (123.34)
Aug.11 "	10.32	19.40	44.70	13.41	87.83
Aug.19 "	14.17	19.60	53.50	24.35	111.62
Aug.25 "	12.76	22.00	51.50	20.87	107.13
Sept.7 1914	10.95	20.80	48.50	19.44	99.69
Sept 12 "	6.41	18.01	47.62	20.56	92.60
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May 12 1915	4.57	10.07	20.82	15.30	50.76
May 14 "	4.57	9.00	40.00	17.93	71.50
May 24 "	8.43	20.73	48.38	16.46	94.00
June 8 "	15.03	21.18	43.00	16.67	97.88
June 17 "	15.46	21.00	45.00	22.88	104.34
June 18 "	16.14	22.00	50.00	20.72	108.86
June 19 "	15.03	22.00	41.00	22.98	101.01
June 21 "	15.03	23.34	46.04	19.09	103.50
June 22 "	15.03	18.00	40.00	22.98	96.01
June 24 "	15.03	20.73	43.50	22.49	101.75
June 25 "	15.03	16.11	39.11	22.88	93.13
June 28 "	10.10	15.50	35.00	19.87	80.47
June 29 "	9.70	12.97	27.19	20.72	70.58
June 30 "	11.93	16.00	32.50	24.19	84.62
July 2 1915	11.61	12.80	31.24	22.49	78.14
July 8 "	11.25	15.80	40.00	19.87	86.92
July 8 "	Observation on Factory shows fluctuations.				
July 13 "	10.61	14.80	37.69	20.72	83.82
July 15 "	11.93	13.52	33.25	20.29	78.99
July 23 "	9.76	12.00	37.52	18.96	78.24
July 29 "	9.41	14.82	39.36	16.46	80.05
Aug. 4 1915	7.95	16.20	39.40	14.50	78.05
Aug 11 "	8.51	11.66	29.68	13.99	63.84
Aug. 16 "	6.60	10.60	30.24	16.04	63.48
Aug. 25 "	8.75	12.50	31.50	15.03	67.78
Sept. 7 "	5.80	20.54	36.40	12.95	75.69

Table showing second feet necessary to produce given number of Kilowatts at a given wheel, efficiency under 332 ft. head.

Power	Efficiency of wheel				Percent.		
Kilowatts	60	65	70	75	80	85	90
			Second Feet.				
3000	176	163	152	142	133	125	118
3500	206	190	176	165	154	145	138
4000	235	217	201	187	175	165	156
4500	265	245	227	212	199	187	177
5000	295	272	252	236	221	208	196
5500	324	299	278	259	243	228	216