

H.M. Magnetical Observatory, Toronto, C. W.—JULY, 1852.

Elevation above Lake Ontario, 108 feet.

Humidity of Air			Wind			Rain : inches.	WEATHER.	
6 A.M.	10	Mo.	6, A.M.	2, P.M.	10, P.M.			
.85	.72	..	..	Calm	W b S	Calm	0.015	Overcast, shower of rain between 11 am & noon.
93	71	.90	.79	Calm	N	"	0.075	Detached cloud, with occasional showers.
85	63	81	76	NEE	S	"	....	Generally clear; light clouds dispersed.
90	64	77	74	Calm	E	NEbN	0.16	Clouded, thunder at 2 pm, rain during the night.
87	78	89	84	ESE	ENE	Calm	0.255	Overcast; rain forenoon, distant thunder at 2 pm.
87	88	95	88	N b E	E	Calm	1.05	Clouded till 1 pm; showers; air light from 5 pm.
88	73	84	80	N b W	SSW	Calm	napp	Generally clouded; slight rain from 7.40 to 8 pm.
90	66	..	..	Calm	S	SSW	....	Generally clear; clear spaces.
85	81	88	87	N	SbE	Calm	0.765	Mostly clouded; rain from 3.30 pm to 4.50 pm.
76	56	7	68	N	SEbE	N	....	Am clouded, pm mostly clear, ft air fm 8.45 pm.
73	64	7	68	N	SEbS	NE	....	Mostly clear; fine; faint aurora from 8.30 pm.
88	62	78	7	N b W	S	Calm	....	Unclouded; hazy round horizon; fine.
90	61	7	71	Calm	S	Calm	....	Unclouded; hazy round horizon; fine.
89	65	6	76	"	S b W	SSW	0.07	Cloud'd pm; thunder lightning rain 7pm to midn't.
93	58	..	..	"	NWbN	Calm	....	Cloudy am, clear and fine p.m.
86	58	91	73	N b E	ENE	ESE	....	Generally clear; light passing clouds; fine.
89	71	85	79	N	SE b S	Calm	....	Clear save few light clouds on horizon 2pm; fine.
94	64	81	75	Calm	S	Calm	....	Unclouded; very fine day.
88	67	82	79	Calm	S b W	Calm	....	Clouds, haze, sheet & fork'd lightning 9 to 10 pm.
92	73	81	85	Calm	E b S	NE	....	Very hazy; dull.
75	81	78	75	NE	E	Calm	....	Zenith unclouded; hazy round horizon; fine.
90	80	..	..	E	ENE	E	....	Overcast; dense clouds and haze.
91	76	82	85	E b S	SE b E	Calm	....	Light clouds; very faint aurora from 10.30 p.m.
91	84	91	88	Calm	S b E	"	0.110	Clouded; thunder lightning rain fm 2.20 to 3 pm.
95	82	8	87	Calm	SE b S	"	0.170	Clear; clouds round horizon; rain during night.
97	76	77	75	Calm	S	NE b N	mapp	Thunder ceased at 7.10 am; do & rain at 3pm.
84	66	78	75	Calm	N	N	....	Detached clouds; halo round moon at 10 pm.
78	64	78	71	N b E	SE	N b W	....	Light clouds, air light and streamers fm 10 pm.
70	71	..	..	N	S b E	SW b S	....	Fine day; suddenly overcast at 10 pm.
79	61	77	71	Calm	S	Calm	....	Unclouded but hazy; very fine day.
90	60	78	73	N b E	S	Calm	....	Unclouded; hazy; very fine day.
..	..	..	..	Miles:	Miles:	Miles:	2.695	
..	..	..	..	1.93	6.17	1.27		

Sum of the Atmospheric Current: in Miles, resolved into the four Cardinal Directions:

North	West.	South.	East.
1022.92	340.60	877.05	733.92

Mean velocity of the wind—3.30 miles per hour.
 Max. velocity—18.8 miles per hour, from 10 to 11 a.m. on 27th.
 Most windy day—27th: mean velocity—8.39 miles per hour.
 Least windy day—1st: mean velocity—1.15 ditto.
 Hour of greatest mean velocity—1 p.m.: mean velocity—6.25 do.
 Hour of least " " —10 p.m.: do. —1.27 do.
 Mean diurnal variation—4.98 miles.

COMPARATIVE TABLE FOR JULY.

Year	TEMPERATURE				RAIN		Wind,	
	Mean	Max.	Min	Range	Days	Inches	Mean velocity.	
1870	64.6	80.1	47.4	32.7	12	2.995	Miles.	
1871	64.1	83.5	46.7	36.8	9	6.170		
1872	65.0	80.7	45.3	35.1	6	2.570		
1873	66.0	85.5	44.1	41.1	4	4.850		
1874	61.7	82.3	44.3	38.2	17	impr		
1875	67.3	82.5	44.4	38.1	9	1.725		
1876	67.9	86.3	50.4	35.9	9	1.770		
1877	61.2	81.1	44.9	36.2	10	2.140		
1878	68.6	87.5	49.3	38.2	8	0.853		
1879	65.4	79.5	51.4	28.1	10	4.972		
1880	66.4	84.2	43.0	41.2	13	4.355		
1881	63.5	79.8	43.6	36.2	10	1.360		
1882	65.3	81.2	46.7	34.5	9	2.695		
Mean	65.62	82.80	46.29	36.31	9.7	3.025		4.14.