

H. M. Magnetical Observatory, Toronto, C. W., SEPTEMBER, 1853.

Elevation above Lake Ontario, 103 feet.

Humidity of Air				Wind			Barom. inches	WEATHER
6 AM	9 AM	12 M	6 PM	Direction	Force	at 6 AM		
92	60	54	75	Calm	SSW	Calm	6.060	Generally overcast with light clouds and haze
71	61	52	75	Calm	SSE	SW by S	6.060	Unclouded till 1 p.m.; sultry, hazy, th' der. caln.
50	67	71	67	S W	WNW	NW by S	6.060	Clear till 4 am; clear and fine, p.m. Aurora 4 arch.
80	62	69	73	Calm	EBS	NNb	6.060	Unclouded, ill defined auroral light from 10 p.m.
88	62	62	72	SW by W	SEBS	Com	6.060	Unclouded, hazy round horizon; very fine.
35	51	71	69	Calm	S	SSW	6.060	Unclouded hazy round horizon, line, aurora fin 10 pm.
91	53	82	71	W by S	S	E by N	6.060	Unclouded hazy round horizon very fine.
93	74	77	76	Calm	ESE	ESE	6.060	Foggy squall and d. hazy fine dr. ops rain during nt.
79	88	97	85	NNE	SSE	ESE	6.060	Overcast am. ill rdn fin 9 to 11 am., sultry pm.
90	69	81	78	NW by N	NW by S	ShW	6.060	Clouded am., a few light clouds pm
91	81	78	86	S by W	E by S	NE	6.070	Densely clouded, th' der. falling rain fin 10 pm.
85	65	82	76	S by W	W	WNW	6.075	Partly overcast, slight rain, ill. aurora fin 10 pm
87	47	81	69	WSW	W by S	W by S	6.075	Light clouds dispersed am. fine, pm hard frost 6 am.
91	57	82	76	Calm	SSR	NXP	6.075	A few light clouds am., very fine pm hard frost.
47	65	87	79	SSW	SSW	Calm	6.075	Light clouds dispersed, mostly clear, fine.
95	60	82	79	N	S	NNE	6.075	Slight frost 6 am. d. y uncl d. hazy aurora fin 8 pm.
85	61	83	73	N by E	NE by E	NE by E	6.075	Slight frost 6 am. d. clouds during day, aurora 9 pm.
91	65	83	59	NNE	E by S	Calm	6.075	Heavy dew 6 am. cloudy, light rain during night.
93	87	87	87	Calm	E by S	NW	6.110	Cloudy occasional showers during the day.
82	91	98	89	N by E	NE by E	ESE	6.160	Densely overcast, constant rain from 9.50 a.m.
96	77	70	78	ESE	SSW	W by S	6.160	Continued rain till 9 am., detached clouds pm.
92	51	93	72	WSW	NW by S	Calm	6.160	Unclouded fine day, aur. arch & streamers fr. 7.30 pm
89	74	91	83	N by W	SSW	F	6.160	Light hazy clouds dispersed, light frost am.
90	79	64	82	NNE	E	NE by N	6.160	A few light clouds, very fine day.
87	71	94	85	N by E	ESE	NW by W	6.160	Unclouded, showers fin 11 am. th' der. rain 8 to 9 pm
89	67	75	80	S	W	NW	6.160	Unclouded, slight frost am., afternoon gloomy
69	67	75	76	NW by N	SSE	SE	6.060	Densely overcast dull day, showers during night
77	61	81	80	Calm	Calm	NW	6.025	Occasional showers am. clear 10 pm to midnight
77	64	96	80	N by E	SSE	S by W	6.025	Frost 6 am., day mostly clear auroral arch 7 pm.
83	64	84	82	NL	SE by S	Calm	6.025	Frost 6 am., unclouded, fine day.
57	57	58	78	Miles:	Miles:	Miles:	3.610	
			2.78		7.49	3.630	3.610	

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

North	West.	South.	East.
10:57.41	1216.44	997.03	846.20

Mean velocity of the wind—1.60 miles per hour.  
 Max velocity—16 1/2 miles per hour, from 11 a.m. to noon 22nd.  
 Most windy day—12th: mean velocity—9.2 miles per hour.  
 Least windy day—30th: mean velocity—1.70 ditto.  
 Hour of greatest mean velocity—2 p.m.: mean velocity—7.40 do  
 Hour of least " " —1 a.m.: do. —2.56 do  
 Mean diurnal variation—4.81 miles

COMPARATIVE TABLE FOR SEPTEMBER.

Year	TEMPERATURE				RAIN		Wind.	
	Mean	Max	Min	Range	Days	Inches	Mean velocity	
1810	54.97	79.2	39.1	40.8	1	1.380	Miles.	
1811	61.0	79.9	37.5	42.4	9	4.310		
1812	55.29	83.5	24.3	59.2	12	6.160		
1813	58.18	87.5	33.1	54.4	10	5.760		
1814	57.97	81.5	29.6	51.9	1	0.230		
1815	55.28	78.8	35.7	43.1	16	5.245		
1816	62.76	84.0	39.0	45.0	11	1.595		
1817	55.27	74.8	38.1	36.7	15	6.665		
1818	54.77	80.9	29.5	51.4	11	3.115		5.81
1819	57.50	80.6	31.5	47.1	9	1.149		4.23
1850	56.51	75.0	31.7	43.3	11	1.738		4.72
1851	60.00	86.3	31.3	55.0	9	2.665		5.45
1852	56.92	81.8	36.	45.7	10	1.640		4.60
Mean	57.30	80.47	33.42	47.05	10.1	3.923		4.97.