

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR JULY.

Highest Barometer 29.844 at 8 a. m. on 22nd } Monthly range = 0.693 inches.
 Lowest Barometer 29.241 at 2 p. m. on 12th }
 Highest registered temperature 96° 6 at p. m. on 17th } Monthly range = 47° 1
 Lowest registered temperature 49° 5 at a. m. on 5th }
 Mean maximum temperature 50° 36 } Mean daily range = 21° 82
 Mean minimum temperature 39° 04 }
 Greatest daily range 28° 7 from p. m. of 30th to a. m. of 31st.
 Least daily range 13° 4 from p. m. of 12th to a. m. of 13th.
 Warmest day . . . 17th . . . Mean Temperature . . . 81° 77 } Difference = 21° 74
 Coldest day . . . 1st . . . Mean Temperature . . . 60° 03 }
 Greatest intensity of Solar Radiation . . . 110° 2 on p. m. of 17th } Monthly range = 70° 7
 Lowest point of Terrestrial Radiation . . . 38° 5 on a. m. of 5th }
 Aurora observed on 4 nights, viz.: on the 7th, 9th, 10th and 12th; possible to see
 Aurora on 26 nights; impossible to see Aurora on 5 nights.
 Raining on 8 days; depth, 1.120 inches; duration of fall, 9.8 hours.
 Mean of cloudiness = 0.39; most cloudy hour observed, 4 p. m., mean = 0.49; least
 cloudy hour observed, 10 p., mean = 0.24.

Sums of the components of the Atmospheric Current, expressed in Miles

North.	South.	East.	West.
1577.03	1355.01	727.824	1878.13
Resultant direction of the wind, N 79° W; Resultant Velocity, 1.57 miles per hour.			
Mean velocity of the wind 5.81 miles per hour.			
Maximum velocity 18th—Mean velocity, 15.86 miles per hour.			
Most windy day 10th—Mean velocity, 1.81			
Least windy day 12 to 1 p. m.—Mean velocity, 10.17			
Most windy hour 5 to 6 a. m.—Mean velocity, 3.17			
Least windy hour do } Difference } 7.60 miles.			

The Mean Temperature of the month. exceeded only in 1854, was 8° above the average of 17 years; the rain that fell was scarcely one-third of the amount that usually falls during the month of July; and the Mean Velocity of the wind which exceeded the average by 1.31 miles is the highest on record, save that of last year. July 1858, therefore, may be characterized as a hot, dry, and windy month.

The total displacement of air during the month, as shown by the columns of Resultant Direction and Resultant Velocity of the wind, was equal to that produced by a wind blowing constantly from N 79° W, with a uniform velocity of 1.57 miles per hour.

The total displacement in the months of July since 1848 inclusive, was equal to that of a westerly wind, having a uniform velocity of 0.31 miles.

COMPARATIVE TABLE FOR JULY.

YEAR.	TEMPERATURE.					RAIS.		WIND.		Mean Velocity.
	Mean.	Difference from Average.	Maximum observed.	Minimum observed.	Range.	No. of days.	Inches.	Resultant.		
								Direction.	Velocity.	
1840	65.8	+ 1.2	79.4	48.2	31.2	6	3.270	—	—	0.27 11st.
1841	65.0	— 2.0	86.3	43.2	43.1	10	8.130	—	—	0.33 "
1842	64.7	— 2.5	90.5	42.0	48.5	4	3.050	—	—	9.44 "
1843	64.5	— 2.5	86.1	40.2	45.9	8	4.605	—	—	0.19 "
1844	66.0	— 1.0	80.1	40.5	45.6	12	2.815	—	—	0.39 "
1845	66.2	— 0.8	94.6	45.6	49.0	7	2.195	—	—	0.29 "
1846	68.0	+ 1.0	94.0	44.9	49.1	9	2.835	—	—	0.19 "
1847	68.0	+ 1.0	87.5	43.8	43.7	8	3.355	N 14 W	0.18	4.94 miles.
1848	65.3	+ 1.5	82.7	46.7	36.0	10	1.890	S 5 W	0.76	3.52 "
1849	68.4	+ 1.4	89.1	51.0	38.1	4	3.415	S 81 E	0.59	4.56 "
1850	68.0	+ 1.9	84.0	52.8	32.1	12	5.270	N 60 W	0.88	4.13 "
1851	65.0	— 2.0	82.7	52.1	30.6	12	3.625	S 43 W	0.93	3.33 "
1852	65.6	— 0.2	100.1	49.5	40.6	8	4.025	S 76 E	0.51	3.70 "
1853	67.0	— 1.4	85.4	49.4	36.0	10	0.015	S 54 W	0.34	4.26 "
1854	67.5	+ 5.5	93.6	53.0	40.6	9	4.805	S 10 W	0.73	6.47 "
1855	67.8	+ 0.3	88.4	53.1	35.3	13	3.245	S 79 W	1.57	5.84 "
1856	69.9	+ 2.9	92.0	51.4	30.6	8	1.729	—	—	—
Mean	66.98	...	87.85	47.49	40.35	8.8	3.567	—	—	4.53