

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR APRIL, 1864.

Notes.—The monthly means do not include Sunday observations. The daily means, excepting those that relate to the wind, are derived from six observations daily, namely at 6 a.m., 8 a.m., 2, 4 and 10 p.m., and midnight. The means and resultants for the wind are from hourly observations.

Highest Barometer ..... 29.964 at 8 a.m. on 20th } Monthly range =  
 Lowest Barometer ..... 29.301 at 4 p.m. on 16th } 0.663 inches.  
 Maximum Temperature ..... 59°4 on p.m. of 26th } Monthly range =  
 Minimum Temperature ..... 25°1 on a.m. of 28th } 31°3  
 Mean maximum Temperature ..... 47°48 } Mean daily range =  
 Mean minimum Temperature ..... 34°61 } 12°97  
 Greatest daily range ..... 29°4 from a.m. to p.m. of 21st.  
 Least daily range ..... 5°2 from a.m. to p.m. of 10th.  
 Warmest day ..... 15th. Mean temperature ..... 49°25 } Difference = 13°85.  
 Coldest day ..... 26th. Mean temperature ..... 35°40 }  
 Radiation } Solar ..... 10°95 on p.m. of 26th } Monthly range =  
 Maximum } Terrestrial ..... 20°90 on a.m. of 17th } 81°5  
 Aurora observed on 4 nights, viz.—on 7th, 24th, 27th and 28th.  
 Possible to see Aurora on 10 nights; impossible on 20 nights.  
 Snowing on 3 days, depth 3.5 inches; duration of fall, 10.0 hours.  
 Raining on 16 days, depth 3.633 inches; duration of fall 78.6 hours.  
 Mean of cloudiness = 0.74; above average 0.15.  
 Most cloudy hour observed, 4 p.m.; mean = 0.79; least cloudy hour observed, 8 a.m.; mean, = 0.68.

Sums of the components of the Atmospheric Current, expressed in miles.

North. South. East. West.  
 2554.18 593.01 2312.96 1217.19

Resultant direction N. 41° E.; Resultant velocity 3.39 miles per hour.

Mean velocity ..... 7.77 miles per hour.

Maximum velocity ..... 33.0 miles, from 3 to 4 p.m. on 27th.

Most windy day ..... 27th. Mean velocity, 18.52 miles per hour. } Difference =  
 Least windy day ..... 6th. Mean velocity, 1.22 ditto } 17.30 miles.

Most windy hour ... 11 a.m. to noon. Mean velocity, 10.55 ditto. } Difference =  
 Least windy hour ... 2 a.m. to 3 a.m. Mean velocity, 5.74 ditto. } 4.81 miles.

1st. Dense fog 6 and 8 a.m., gloomy and mild.—2nd. Dense fog 6 and 8 a.m., dark and mid.—4th.—Solar halo from noon to 2 p.m., dark and mild.—7th. Fog 6 and 8 a.m.; faint auroral light at 10 p.m.—8th. Solar halo at 1 p.m.; sheet lightning in S.W. at 9 and 10 p.m.—10th. Rain and snow intermixed 6 to 11 a.m.—11th. Fog 6 and 8 a.m.—12th. Fog at 6 a.m.—14th. Well defined rainbow 6 p.m.—17th. Solar halo at 6 a.m.—20th. Lunar halo at midnight.—21st. Lunar corona at midnight, for —22nd. Solar halo 1 p.m.—23rd. Fog 6 and 8 a.m.—24th. Solar halo 4 p.m., and auroral light at 9 p.m.—25th. Dense fog 10 p.m. and midnight.—28th. Fog 6 a.m.

APRIL, 1864, was very rainy, and the snow being also above the mean, the precipitation was greater than the average; mean temperature just equalled the average of 1864.

Year.	TEMPERATURE.				RAIN.		SNOW.		WIND.	
	Mean.	Excess above average (26.1).	Max. (64.1).	Min. (26.1).	No. of days.	Inches.	No. of days.	Inches.	Resultant Direction.	Force or Velocity.
1840	42.4	+ 1.4	65.9	23.3	40.6	3.420	2	...	...	...
1841	39.2	+ 1.8	62.9	22.1	40.8	1.370	3	...	...	0 51lbs.
1842	43.1	+ 2.1	83.5	21.6	67.9	3.740	2	...	...	0 57
1843	40.9	- 0.1	74.0	13.1	54.3	3.185	3	...	...	0 44
1844	47.5	+ 6.5	74.5	17.2	57.3	1.0	1	Inap.	...	0 26
1845	42.1	+ 1.1	66.0	14.8	51.2	3.200	4	1.5	...	1.00
1846	44.0	+ 3.0	79.4	24.4	55.0	1.3	1	...	...	0 55
1847	39.2	- 1.8	65.6	8.4	57.2	2.870	2	4.0	...	0 59
1848	41.3	+ 0.3	63.4	23.5	38.9	1.455	1	0.5	N 77° W	4.89mls.
1849	39.0	- 2.0	70.3	26.2	47.7	2.655	2	1.7	N 43° W	3.14
1850	37.9	- 3.1	63.2	13.2	45.0	4.720	2	1.1	N 39° W	1.12
1851	41.3	+ 3.1	59.2	23.8	33.4	2.235	5	1.2	N 14° E	2.52
1852	38.2	- 2.8	53.8	19.8	34.0	1.990	4	9.4	N 23° E	2.41
1853	41.0	+ 0.9	65.7	27.0	38.7	2.625	4	1.0	N 12° W	1.95
1854	41.0	+ 0.9	65.1	22.3	42.8	2.683	4	2.7	N 50° E	2.57
1855	42.4	+ 1.4	63.8	12.2	51.6	2.030	3	1.6	N 36° W	3.99
1856	42.3	+ 1.3	69.8	15.1	54.7	2.786	3	0.1	N 29° E	1.64
1857	35.4	- 5.6	51.9	10.0	41.9	1.755	11	12.9	N 60° W	4.15
1858	41.5	+ 5.6	61.5	23.8	37.7	1.642	2	0.1	N 14° W	1.64
1859	39.5	- 1.5	62.1	23.0	38.2	2.527	2	1.2	N 36° W	2.33
1860	39.5	- 1.5	60.7	19.7	41.0	1.282	5	0.3	N 37° W	4.10
1861	42.0	+ 1.0	62.3	26.2	36.1	1.619	4	6.9	N 37° E	2.31
1862	39.6	- 1.4	61.1	20.1	44.0	2.235	4	0.2	N 50° E	2.48
1863	42.0	+ 1.0	67.7	8.9	58.8	2.210	4	1.6	N 14° E	3.75
1864	40.9	- 0.1	58.3	29.5	28.8	3.633	3	3.5	N 41° E	3.39
1865	40.96	...	35.57	20.04	45.53	2.433	3.3	2.40	N 7° W	2.07
1866	...	...	...	...	...	...	...	...	...	...
1867	...	...	...	...	...	...	...	...	...	...
1868	...	...	...	...	...	...	...	...	...	...
Exc. 1864.	0.01	...	7.27	9.46	10.78	1.290	0.3	1.10	.....	0.29