

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR JANUARY, 1868,

Highest Barometer..... 30.878 at 10 a. m. on 15th } Monthly range =
 Lowest Barometer 28.846 at 2.30 p. m. on 4th } 1.532 inches.
 Maximum Temperature 47°0 on p. m. of 4th } Monthly range =
 Minimum Temperature 14°0 on a. m. of 17th } 61°0
 Mean maximum Temperature 33°32 } Mean daily range =
 Mean minimum Temperature 22°33 } 10°38
 Greatest daily range 24°6 from a. m. to p. m. of 16th.
 Warmest day 2°2 from a. m. to p. m. of 6th, and a. m. to p. m. of 15th.
 Coldest day 3rd. Mean temperature 40°10 } Difference = 40°90.
 Radiation } Solar 68°0 on p. m. of 5th } Monthly range =
 } Terrestrial 22°0 on a. m. of 17th } 88°0
 Aurora observed on 3 nights, viz., -16th, 24th, and 25th.
 Possible to see Aurora on 7 nights; impossible on 24 nights.
 Snowing on 17 days, depth 20.6 inches; duration of fall, 87.8 hours.
 Raining on 10 days, depth 1.122 inches; duration of fall 29.7 hours.
 Mean of cloudiness = 0.88. Above average 0.12.
 Most cloudy hour observed, midnight, mean = 0.86; least cloudy hour observed,
 6 a. m.; mean, = 0.79.

Sums of the components of the Atmospheric Current, expressed in miles.
 North. South. East. West.
 1732.49 1321.11 1615.41 2248.13

Resultant direction N. 61° W.; Resultant velocity 1.18 miles per hour.
 Mean velocity 7.23 miles per hour.
 Maximum velocity 30.3 miles, from 3 to 4 a. m. on 6th.
 Most windy day 6th Mean velocity, 16.92 miles per hour. } Difference =
 Least windy day 3rd Mean velocity, 1.26 ditto. } 15.66 miles.
 Most windy hour 3 p. m. to 4 p. m. Mean velocity, 8.50 ditto. } Difference =
 Least windy hour 2 a. m. to 3 a. m. Mean velocity 6.18 ditto. } 2.32 miles.

1st. Solar halo during forenoon; lunar halo at 10 p. m. and midnight.—2nd. Fog at
 8 a. m.—5th. Fog at 10 p. m. and midnight.—9th. Lunar halo from 11 p. m.—14th.
 Fog from 1 p. m. to 2.80 p. m.—16th. Solar halo at 4 p. m.; auroral light at mid-
 light.—22nd. Dense fog at 2 and 4 p. m.—23rd. Fog at 4 p. m.—24th. Auroral
 light, arch and streamers, 10 p. m. to midnight.—25th. Auroral light from 8 p. m.;
 lunar halo 8 to 10 p. m.

January, 1868, was very mild, cloudy, and comparatively calm; it had less rain

COMPARATIVE TABLE FOR JANUARY.

YEAR.	TEMPERATURE.				RAIN.			SNOW.			WIND.	
	Mean.	Excess above average (45.5)	Max. (72°)	Min. (32°)	No. of days.	Inches.	No. of days.	Inches.	No. of days.	Inches.	Resultant.	Force or Velocity.
1840	37.0	0	50.6	13.8	4	1.395	11	...	...	...	...	...
1841	25.6	+ 2.1	41.7	4.1	2	2.150	14	...	...	...	...	0.36 lbs.
1842	27.9	+ 4.4	45.8	1.3	5	2.170	0	...	...	...	...	0.78
1843	28.7	+ 5.2	51.4	1.5	6	4.293	12	14.2	...	...	...	0.69
1844	20.2	+ 3.3	44.6	7.7	7	3.008	11	24.9	...	...	...	0.70
1845	26.5	+ 3.0	43.0	3.4	5	Imp.	0	22.7	...	...	...	0.70
1846	26.7	+ 3.2	41.2	0.3	5	2.335	10	6.0	...	...	...	0.55
1847	23.3	+ 0.2	42.6	2.2	7	2.135	5	7.5	...	...	...	1.09
1848	28.7	+ 5.2	51.5	12.0	7	2.245	8	7.1	...	N 82° W	2.03	6.82mls.
1849	18.5	+ 5.0	40.1	15.2	4	1.175	10	0.2	...	N 63° W	3.06	6.71
1850	20.7	+ 0.2	46.3	10.6	7	1.250	8	5.2	...	N 37° W	0.69	5.80
1851	25.5	+ 2.0	43.2	12.8	4	1.275	10	7.8	...	S 77° W	3.20	7.69
1852	18.4	+ 5.1	37.3	7.0	4	0.200	10	30.9	...	N 65° W	3.14	7.67
1853	23.0	+ 0.5	40.9	6.0	7	0.290	6	7.5	...	N 97° W	2.52	6.34
1854	23.0	+ 0.1	45.2	4.3	1	1.270	11	7.0	...	N 77° W	2.44	6.91
1855	25.0	+ 2.4	48.2	12.1	5	0.525	13	23.3	...	N 73° W	1.91	7.25
1856	16.9	+ 7.5	33.1	4.7	0	0.000	14	13.6	...	N 75° W	5.24	10.69
1857	12.8	+ 10.7	34.6	20.1	3	Imp.	16	21.8	...	N 70° W	4.00	10.31
1858	30.0	+ 6.5	45.8	7.5	6	1.152	11	4.0	...	S 81° W	2.33	7.40
1859	26.4	+ 2.0	41.5	26.5	6	1.449	19	16.4	...	S 81° W	3.17	8.70
1860	23.9	+ 0.1	45.4	5.1	6	0.740	16	8.7	...	N 89° W	6.09	9.37
1861	19.9	+ 3.6	34.5	7.0	4	0.085	23	20.6	...	N 86° W	2.02	9.80
1862	21.7	+ 1.9	42.8	11.9	5	0.115	19	27.4	...	N 26° W	2.69	8.83
1863	28.1	+ 4.5	44.0	11.2	10	1.122	17	20.6	...	N 61° W	1.13	7.23
1864	23.53	...	42.80	6.52	4.5	1.407	12	13.63	...	N 77° W	2.98	7.86
Exc. for 1863.	+	+	1.80	6.48	5.5	0.285	5.0	6.07	...	.....	.....	0.63