

REMARKS ON TORONTO METEOROLOGICAL REGISTER FOR DECEMBER, 1863.

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., 9, 4 and 10 p.m., and midnight. The means and resultants for the wind are from hourly observations.

COMPARATIVE TABLE FOR DECEMBER.

YEAR	TEMPERATURE.			RAIN.			SNOW.			WIND.	
	Mean	Max above average (26.1)	Min. observed	No. of days	Inches	No. of days	No. of days	Inches	No. of days	Direction	Force or Velocity.
1810-21-3	0	41.0	-4.4	3	Imp.	18	...	...	...	...	...
1811-23-7	+2.6	45.5	+2.4	7	6.666	5	...	...	...	...	1.33lbs.
1812-24-7	+1.4	40.3	+3.8	7	0.888	17	...	...	...	...	0.60
1813-30-2	+3.1	44.1	+2.7	6	1.010	8	8.1	...	...	...	0.53
1814-28-2	+2.1	48.9	-0.8	6	Imp.	6	4.2	...	...	...	0.40
1815-21-1	+5.0	37.6	-2.7	2	Imp.	12	4.2	...	...	...	0.70
1816-27-5	+1.4	49.2	+3.7	5	1.215	9	6.0	...	...	...	0.57
1817-30-1	+4.0	59.0	+6.6	4	1.185	8	6.5	...	...	...	0.35
1818-26-5	+3.0	49.1	+6.6	7	2.750	7	10.5	S 83° W	1.12	5.44mls.	...
1819-26-5	+0.4	41.3	-5.2	6	1.840	12	9.5	N 89° W	2.56	6.23	...
1820-21-7	+4.4	48.3	-10.5	5	0.100	18	2.5	N 44° W	2.63	7.40	...
1821-21-5	+4.6	43.8	-10.5	6	1.075	15	10.7	N 89° W	1.00	7.37	...
1822-31-0	+5.8	51.0	+13.9	7	3.935	10	20.1	S 69° W	1.63	6.54	...
1823-25-3	+0.8	42.2	-5.2	4	0.625	13	22.3	N 35° W	2.39	4.98	...
1824-21-9	+4.2	41.8	-5.9	5	0.500	12	17.2	N 44° W	1.62	1.56	...
1825-26-8	+0.7	45.9	-2.1	4	1.815	10	20.5	S 89° W	5.39	8.56	...
1826-22-0	+3.2	44.2	-9.1	6	1.790	20	16.3	N 44° W	4.30	11.38	...
1827-31-0	+5.8	45.6	+5.7	9	3.205	14	9.0	N 89° W	2.51	6.84	...
1828-27-4	+1.3	43.6	+5.0	11	1.637	18	10.4	N 18° W	1.66	9.36	...
1829-17-0	+8.2	54.8	-3.0	3	1.035	23	37.4	N 53° W	4.39	10.77	...
1830-24-0	+2.1	38.5	-7.0	5	1.362	21	25.5	N 63° W	4.68	10.14	...
1831-31-1	+5.0	55.1	+5.7	6	0.580	8	6.8	N 79° W	3.50	7.96	...
1832-28-8	+2.7	50.0	-2.3	5	1.845	8	10.4	N 73° W	3.17	7.58	...
1833-27-0	+0.9	51.5	+1.0	10	2.960	17	7.1	N 41° W	1.61	9.40	...
1834-26-11	...	45.26	-0.72	5.3	1.545	12.9	14.66	N 69° W	2.97	8.18	...
Exc. for 1865	+0.89	+0.24	+1.72	4.7	1.415	4.1	7.56	.....	.....	.....	+1.22

Highest barometer.....30.313 at 10 a.m. on 6th } Monthly range =
 Lowest barometer.....28.769 at 1 p.m. on 14th } 1.544 inches.
 Maximum Temperature.....53° on p.m. of 4th } Monthly range =
 Minimum Temperature.....-1° on a.m. of 10th } 54°
 Mean maximum Temperature.....34°60' } Mean daily range =
 Mean minimum Temperature.....20°70' } 13°30'
 Greatest-daily range.....28°5' from a.m. to p.m. of 10th.
 Least-daily range.....2°6' from a.m. to p.m. of 23rd.
 Warmest day.....4th... Mean temperature.....42°33' } Difference = 36°58.
 Coldest day.....22nd... Mean temperature.....11°75' } Difference = 30°58.
 Maximum { Solar..... }
 Radiation { Terrestrial..... }
 Aurora observed on 0 night, viz.:
 Possible to see Aurora on 10 nights; impossible on 21 nights.
 Snowing on 17 days, depth 7.1 inches; duration of fall 55.8 hours.
 Blowing on 10 days, depth 2.968 inches; duration of fall 75.2 hours.
 Mean of cloudiness = 0.72; below average 0.63.
 Most cloudy hour observed, 8 a.m.; mean = 0.76; least cloudy hour observed,
 4 p.m.; mean, = 0.60.

Stems of the components of the Atmospheric Current, expressed in miles.
 North. South. East. West.
 2093.11 1193.09 2341.30 3130.37
 Resultant direction N. 41° W.; Resulant velocity 1.61 miles per hour.
 Mean velocity.....0.40 miles per hour.
 Maximum velocity.....32.8 miles, from 8 to 9 p.m. on 14th.
 Most windy day.....14th.....Mean velocity, 21.41 miles per hour. } Difference =
 Least windy day.....28th.....Mean velocity, 0.93 ditto. } 20.48 miles.
 Most windy hour.....1 to 2 p.m.....Mean velocity, 11.17 ditto. } Difference =
 Least windy hour.....7 p.m. to 8 p.m.....Mean velocity 8.62 ditto. } 3.15 miles.

1st. Mild, Wind in violent squalls.—4th. Mild day, Wind high and squally.—5th. Morning mild, temperature descending rapidly, night keen.—6th. Morning mild, night clear and keen, great change of temperature. 11th. Slight Snow and Rain most of the day; Foggy at midnight.—12th. Foggy till 9 a.m.; Constant heavy Rain from 0.30 p.m.—13th. Slight rain till noon; Foggy at 2 p.m.—14th. Stormy day; Steady Rain till 5 p.m.; Snowing slightly from 8 p.m.—15th. Stormy day; Wind high with occasional flurries of Snow.—17th. Stormy day; Rain, Hail or Snow most of the day.—20th. Perfect Lunar Halo at 8 p.m.—25th. Stormy, mixture