

**Meteorological Observations.**—From the Records of the Montreal Observatory, Lat. 45° 31 North; Long. 4h, 54m. 11 sec. West of Greenwich. Height above the level of the sea, 182 feet; for the month of December, 1872. By CHARLES SMALLWOOD, M. D. LL. D., D. C. L.

The highest Temperature was on the 1st day, and indicated 35° 8'; the lowest was on the 25th day, and was 17° 8' (below zero.) The monthly mean was 13° 84, and the monthly range or climatic difference 55° 6.

Rain inappreciable in quantity. Snow fell on 20 days, amounting to 43.33 inches on the surface.

Days.	Barometer at 32°			Temperature of the Air.			Direction of Wind.			Miles in 24 hours.
	7 a. m.	2 p. m.	9 p. m.	7 a. m.	2 p. m.	9 p. m.	7 a. m.	2 p. m.	9 p. m.	
1	29.630	29.725	29.800	16.5	35.0	29.0	W	W	W	87.10
2	.690	.600	.501	25.5	30.9	32.5	S E	N E	N E	64.14
3	.476	.582	.744	30.0	34.1	32.0	W	W	W	88.10
4	.976	30.090	30.121	21.6	29.7	22.5	W	W	W	67.17
5	30.125	29.998	29.900	21.0	24.0	25.3	W	E	N E	50.21
6	29.998	30.062	30.201	21.8	38.5	17.6	W	W	W	31.46
7	30.200	.060	29.971	13.2	21.0	18.6	S W	S E	S E	141.11
8	29.571	29.474	.476	29.1	34.0	32.5	S	S	W	201.06
9	.424	.428	.561	32.5	17.2	7.6	S	S	W	179.44
10	.700	.811	.951	5.2	12.6	9.2	W	W	W	186.18
11	30.147	30.162	30.301	1.3	7.9	4.1	W	W	W	242.16
12	.800	.224	.137	3.5	8.2	6.1	W	W	W	76.20
13	29.947	29.800	29.772	8.5	17.5	22.3	S	S	S	95.12
14	.809	.981	.961	24.5	35.3	20.1	W	W	S W	81.14
15	.516	.860	30.080	28.6	30.9	13.0	S W	W	W	104.13
16	30.078	.972	29.877	16.2	26.4	24.1	W S W	S W	W	64.10
17	.050	30.120	30.200	20.5	30.5	21.3	W	W	W	81.10
18	.200	29.970	29.849	18.7	25.0	20.3	W	S W	W	74.17
19	.250	30.360	30.398	15.0	27.5	17.1	W	W	W	91.10
20	29.846	29.448	29.700	18.4	24.8	23.8	N E	S	W	121.19
21	.974	30.026	.912	12.5	23.0	19.0	W	W	W	66.15
22	30.000	.162	30.150	6.9	16.0	2.0	W	W	W	168.12
23	29.961	29.588	29.896	4.5	12.8	8.4	S W	S W	W	198.12
24	30.282	30.426	30.511	-14.8	-0.8	-9.5	W	W	W	174.46
25	.540	.512	.451	-17.2	-0.5	-7.5	W	W	W	162.14
26	.232	29.996	29.900	-13.1	-3.5	-2.9	N E	N E	N E	94.13
27	27.701	.700	.870	0.0	6.1	-2.0	W	W	W	124.00
28	.870	.984	30.151	-6.0	6.6	-1.5	W	W	W	158.10
29	30.276	30.324	.401	-12.3	2.5	-0.8	cal.	N E	N E	74.67
30	.502	.489	.461	-12.9	6.0	-7.5	cal.	W	W	109.24
31	.186	.106	.181	-7.4	4.9	2.5	N E	N	N	97.61

REMARKS.—The highest reading of the Barometer was at 11 a. m. on 25th day, and was 30.542 inches; the lowest reading occurred at 7.49 a. m. on the 10th day, 29.424 inches, giving a monthly range of 1.118 inches. The atmospheric pressure for the month was 29.987 inches.

—Observations taken at Halifax, N. S. during the month of Dec., 1872; Lat. 44° 39' North; Long: 63° 36' West; height above the Sea 125 feet, by Sergt. John Thurling, A. H. Corps.

Barometer, highest reading on the 20th.....	30.267 inches.
“ lowest “ “ 10th.....	28.953
“ range of pressure.....	1.314
“ mean for month (reduced to 32°).....	29.724
Thermometer, highest in shade on the 2nd.....	48.0 degrees.
“ lowest “ “ 25th.....	-6.6
“ range in month.....	54.6
“ mean of all highest.....	31.1
“ mean of all lowest.....	13.1
“ mean daily range.....	18.0
“ mean for month.....	22.1
“ highest reading in sun's rays.....	80.8
“ lowest on the grass.....	Covered with snow.
Hygrometer, mean of dry bulb.....	23.8
“ mean of wet bulb.....	22.2
“ mean dew point.....	12.0
“ elastic force of vapour.....	0.74
“ weight of vapour in a cubic foot of air.....	0.9 grains.
“ weight required to saturate do.....	0.6
“ the figure of humidity (Sat. 100).....	61
“ average weight of a cubic foot of air.....	571.5 grains.
Wind, mean direction of North.....	9.0 days.
“ “ East.....	5.25
“ “ South.....	5.25
“ “ West.....	9.50
“ “ Calm.....	2.0
“ daily force.....	2.6
“ daily horizontal movement.....	Anemometer broken.
Cloud, mean amount of (0-10).....	6.9
Ozone, mean amount of (0-10).....	3.9
Rain, number of days it fell.....	19
Snow, number of days it fell.....	9
Amount collected on ground.....	6.98 inches.
Fog, number of days.....	2

SYNOPSIS of Temperature, Cloud and Precipitation for November, 1872, compiled at the Toronto Observatory, from observations in the several Provinces of the Dominion of Canada :

PROVINCE.	ONTARIO.			QUEBEC.		N. SCOTIA.	NEW BRUNSWICK.		MANITOBA.
	TORONTO. 6 & 8 A. M. 2,4,10 & Mid't	LONDON. 8 A. M. 2 & 9 P. M.	OTTAWA. 7 A. M. 2 & 9 P. M.	MONTREAL. 7 A. M. 2 & 9 P. M.	QUEBEC. Highest and Lowest.	HALIFAX. Tri-Hourly	ST. JOHN. 6 A. M. 2 & 10 P. M.	FREDERIC- TON. 7 A. M. 2 & 9 P. M.	WINNIPEG. 7 A. M. 2 & 9 P. M.
Mean temperature uncorrected for diurnal variation.....	32.91	29.52	31.27	34.42	29.15	37.71	35.64	32.73	18.22
Warmest day.....	11	11	2	6	1	1	7	7	2
Temperature.....	47.6	47.0	43.9	44.9	42.5	49.7	46.3	46.8	37.6
Coldest day.....	29	29	20	30	21	21	21	21	27
Temperature.....	14.9	11.7	13.7	13.5	15.5	26.4	25.3	19.4	20.80
Mean of Daily Maxima.....	40.6	37.3	38.0	39.3	34.1	44.4	41.9	39.7	24.9
Mean of Daily Minima.....	26.1	22.2	25.7	29.3	24.2	30.1	29.5	27.1	11.3
Highest Temperature.....	52.0	54.3	49.7	52.4	46.0	58.3	53.0	53.0	42.5
Date.....	11	11	4.6	5	1	15	7	8	4
Lowest Temperature.....	8.2	5.5	6.6	10.1	3.0	19.8	15.0	12.0	29.0
Date.....	29	29	21	30	21	18	21	21	27
Percentage of Cloud.....	68	71	93	58	66	66	73	60	71
Depth of Rain in inches.....	0.42	0.65	0.97	2.91	0.80	5.71	6.66	5.82	inapp.
No. of days on which rain fell.....	7	6	6	7	2	16	7	9	1
Depth of snow in inches.....	1.3	8.5	8.4	10.7	26.0	4.4	9.6	4.2	9.0
No. of days on which snow fell.....	9	10	11	10	7	9	11	7	16
Total depth of Rain and melted snow.....	0.550	1.400	1.810	3.980	3.400	6.652	7.610	6.240	0.900
No. of Fair days.....	14	15	15	14	21	9	15	18	13