

Meteorology.

—From the Records of the Montreal Observatory, lat. 45° 31 North; Long. 4h. 54m. 11 sec. West of Greenwich, and 182 feet above mean sea level,—for Jan., 1870,—By CHAS. SMALLWOOD, M.D., LL.D., D.C.L.

DAYS.	Barometer corrected 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	30.281	30.262	30.199	20.9	22.4	16.2	wbyN	nbye	nbye	104.29
2	29.901	29.560	28.801	12.1	28.5	32.0	nE	nE	nE	112.00
3	.061	.272	29.364	34.0	34.9	30.3	sW	sW	sW	211.20
4	.575	.642	.661	20.1	27.7	24.3	w	w	w	317.00
5	.974	30.087	30.152	14.3	18.5	11.9	w	w	w	104.00
6	.898	29.222	29.852	22.0	31.4	30.1	sW	sW	w	84.29
7	30.000	30.072	30.150	3.3	14.7	3.1	w	w	wbyN	219.29
8	.049	.002	29.961	-5.0	3.2	2.1	wbyN	nE	sE	324.14
9	.252	.350	30.251	-1.0	11.3	2.2	w	w	w	204.10
10	.052	29.972	29.947	3.2	10.3	13.9	sW	nE	nE	91.17
11	.161	30.217	30.349	18.7	27.6	18.1	w	w	w	70.24
12	.021	.019	.051	16.0	19.1	21.7	w	nE	nE	90.00
13	.289	.333	.547	2.1	-4.0	-6.1	nE	nE	n	247.12
14	.772	.774	.649	-20.4	-1.7	-7.7	n	n	w	242.10
15	.184	29.751	29.499	5.0	31.6	32.0	nE	sW	sW	104.29
16	.051	30.177	30.275	31.6	37.1	34.1	w	w	nE	237.47
17	.000	29.798	29.601	32.3	35.7	37.0	sW	s	s	91.12
18	.252	30.473	30.479	21.0	22.1	20.0	w	w	w	311.10
19	.561	.471	.411	12.3	31.6	19.2	w	w	w	61.74
20	.212	.401	29.957	18.9	35.1	29.2	w	w	w	189.70
21	.049	.200	30.300	22.2	30.0	18.4	nE	w	w	104.00
22	.501	.346	.101	11.7	26.0	29.9	w	sE	sE	91.11
23	29.947	29.998	.106	34.1	39.7	17.9	sW	sW	w	79.24
24	30.451	30.420	.347	4.0	12.4	8.7	w	nE	nE	111.49
25	29.901	29.452	29.549	11.4	17.7	17.0	nE	nE	nE	170.00
26	.551	.801	.900	32.0	39.2	35.0	wsW	wsW	wsW	79.11
27	30.101	30.157	30.275	27.7	39.0	22.1	wsW	wsW	wsW	80.04
28	.362	.344	.311	18.0	26.0	18.2	w	nE	nE	89.20
29	.024	29.879	29.700	12.9	30.0	20.6	nE	s	s	70.00
30	29.849	.979	30.062	25.9	31.7	17.0	w	nE	nE	82.24
31	30.149	30.007	29.921	-2.9	13.3	10.1	wbyE	nbye	sbyr	104.12

Remarks.—The highest reading of the Barometer was on the 14th day, and indicated 30.774 inches; the lowest was on the 4th day, and was 28.750 inches, giving a range of 2.024 inches.

The mean temperature of the month was 19° 21, which is somewhat more than 5° higher than the Isotherm for Montreal. The highest temperature was on the 23rd day, and was 89° 7. The lowest temperature was on the 14th day, and was 20° 8 below zero, giving a monthly range of 60° 6.

Rain fell on six days amounting to 1.586 inches. Snow fell on sixteen days, amounting to 31.89 inches.

—Meteorological Observations taken at Quebec, during month of January, 1870; Latitude 46° 48'30" North; Longitude 71° 12'15" West; Height above St. Lawrence 230 feet,—by Sergt. John Thurling, A. H. C., Quebec.

Barometer, highest reading on the 14th.....	30.549 inches.
" lowest " 3rd.....	28.961
" range of pressure	1.588
" mean for month (reduced to 32°).....	29.829
Thermometer, highest reading on the 17th.....	41.2 degrees.
" lowest " 14th.....	-14.4
" range in month.....	55.6
" mean for month.....	16.0
Hygrometer, mean of dry bulb.....	16.6
" " wet bulb.....	15.1
" " dew point.....	3.6
" elastic force of vapour.....	.051 inches.
" vapour in a cubic foot of air.....	0.6 grains.
" " required to saturate do.....	0.5
" mean degree of humidity (Sat. 100).....	56
" average weight of a cubic foot of air.....	582.1 grains.
Cloud, mean amount of, (0-10).....	7.1
Ozone, " " (0-10).....	3.3
Wind, mean direction of " North.....	6.50 days.
" " " East.....	5.50
" " " South.....	5.75
" " " West.....	12.25
" " " calm.....	1.00
" " daily horizontal movement.....	172.1 miles.
Rain fell on.....	2 days.
Snow fell on.....	22 do.

Correction.—The lowest reading of the Thermometer at Quebec in Dec. last was 5.0 degrees below, instead of above, zero as given in our last no.

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