Meteorology.

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 July, 1871. By CHARLES 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	30.150	30.104	29.996	58.0	83.4	71.2	S W	S W	S W	87.12
2	29.950	29.944	.924	68.1	79.2	72.1	W	W b S	S W	101.10
3	30.024	30.016	30.049	54 1	84.0	70.1	W S W	S W	S W	96.12
4	.001	29 850	29.782	64.0	80.3	66.2	W	W	W	86.12
5	29 873	.902	.996	63.1	82.3	68.2	W	W	W	91.14
6	30 024	.861	.768	62.4	83.4	71.1	W	S E	S W	68.14
7	29.576	.743	.732	69.4	74 0	66.2	W	W	W	194.24
8	30.001	30.000	.962	63.6	86.0	74 0	W	W	W	271 12
9	29 781	29.762	.800	71.7	80 1	72.0	N E	W b S	W	201.00
10	.917	.960	.886	60.1	76 2	69 0	W	N E	W	91 84
11	.900	.816	.752	66.1	79.2	71.2	W	W	W	87.24
12	.846	.856	.950	67.0	82.0	73.1	W	W by N	W	101.12
13	30.030	.986	.987	71.0	98 0	79.1	W	W	W	89 12
14	29 924	.900	.847	73.2	88 1	67.1	W	W	W	74.14
15	.901	.764	.771	66.4	86.2	66.4	W	W	W	84.10
16	.770	.704	.651	63.6	80.0	67.0	N E	W b N	W S W	97 13
17	.501	.612	.700	62 0	81.1	60.0	S W	N N W	N N W	114.12
18	.699	.675	.616	59.0	69.2	69.0	W	S W	S W	79 42
19	.721	.750	.751	59.1	72 9	68.1	W	W	W	101.12
20	.752	.763	.875	58.6	76 6	66.3	W	W	W	87.74
21	.921	.923	.925	60.0	76.3	65.0	S W	W	W	142-10
22	.925	.927	.960	60.0	69 1	61.0	W	W	W	97.24
23	30.002	30.075	30.174	60.0	80.4	62.2	W	W	W	64.10
24	.201	.210	.227	60.0	83.1	68.0	W	N E	N E	87 11
25	.267	.223	200	63.4	84.1	72 3	S W	E	E	76.21
26	.101	29 961	29.900	62.7	79.2	67.3	W	N E	W	64 10
27	29.899	.899	.911	65.2	71.0	68.0	W	S W	W	84.24
28	.972	30.075	30 150	64 5	68 5	66.4	W	N E	N E	89.74
29	30.200	.224	.151	62.4	80 0	70.0	N E	N E	N E	104.10
30	.101	.077	.001	68.7	73.0	69.0	N E	N E	N E	87.12
31	29.972	29 951	29.982	69.1	67 0	64.2	N E	N E	N E	94.14

REMARKS.

The highest reading of the Barometer was on the 25th day, and indicated 30.267 inches: the lowest reading was on the 17th day, and was 26.501 inches. The mean of the month was 29.770, and range 0.766 inches.

—Observations taken at Halifax, Nova Scotia, during the month of July, 1871. Lat 44°39′ North; Long, 63°36′ West; height above the Sea 175 feet; by Sergt. John Thurling, A. H. Corps, Halifax.

Barometer, highest reading was on the 29th	30.311	inches.
" lowest " " 8th	29.460	
" range of pressure	0.851	
" mean for month (reduced to 32°)	29.771	
Thermometer, highest in shade was on the 6th	84.2	degrees
" lowest " " 2nd	43 4	
" range in month	40.8	
" mean of all highest	76 4	
" mean of all lowest	52 5	
" mean daily range	23.9	
" mean for month	64.4	
" maximum reading in sun's rays	131.8	
" minimum reading on grass	30.1	
Hygrometer, mean of dry bulb	67.1	
" " wet bulb	62 4	
" " dew point	58.7	
" elastic force of vapour	.494	
" weight of vapour in a cubic foot of air	5.4	grains.
" " required to saturate do	1.9	
" the figure of humidity (Sat. 100)	74	
" average weight of a cubic foot of air	522.0	
Cloud, mean amount of, (0-10)	7.0	
Ozone, " " (0-10)	2.6	
Wind, mean direction of North	1.25	days.
" " East	0.50	
" " South	11.75	
" " West	17.50	
" daily horizontal movement	234.7	miles.
" daily force	2.0	
Rain. No. of days it fell	16	days.
Amount collected on ground	3.97	inches.
Fog, No. of days it prevailed	10	days.

—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 August, 1871.—By CHARLES SMALLWOOD, M.D., LL.D., D.C.L.

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	30.000	30.025	30.020	58.8	81.0	66.3	N E	N N E	N N E	101.01
2	.074	.082	.075	63.1	87.0	72.0	N E	W S W	W S W	81.10
3	.032	29.999	29.900	64.4	84.0	74.1	W	W	S W	78.21
4	29 773	.741	.726	69.0	85.1	77.0	W	W	W	109.13
5	.610	.649	.798	73.1	88.1	68.0	W	W	W	183.12
6	.871	.901	.972	64.2	79.0	73.0	W	W	W	211.12
7	30 000	30 017	30.000	68.1	89.3	74.1	W	S	S	186.10
8	29.772	29.690	29.621	71 5	73.0	70.1	W	S W	W	97.24
9	.827	.849	.925	63.9	83.2	68.7	W	W	W	103.71
01	30.024	.989	30 023	63.1	88.0	73 2	N W	N W	W	187.12
11	29 964	.950	29 947	65.1	89.3	77.5	W	S W	S W	87.77
12	30 114	30.116	30.150	60.1	82.6	68.1	N E	N E	N W	182.14
13	.200	.163	.169	62.1	85 2	68 8	N W	W by N	W by N	89.44
14	.122	.100	.071	62.0	79 4	70.5	N W	N E	N E	67.12
15	.021	29.990	29 983	65.8	87.1	77.0	N E	N E	N E	81.71
16	29.868	.822	.782	72 0	86 3	77.0	W	W	W	108.04
17	30.000	30 061	30.000	65 5	81.9	68.7	W	W by N	W	101.00
18	29 993	29.774	29.875	61.1	61 6	60.0	W	W	W	97.24
19	946	.974	30.025	56.7	71.2	59.9	W	W	W	97.74
20	30.074	30.031	.049	57.8	62 0	59.1	N E	N E	N E	98.10
21	.054	.124	.181	57.2	81 9	63.0	N E	N E	N E	84.21
22	.218	.300	.301	58 5	81.0	69.8	N E	N E	S W	114.10
23	.252	.207	.160	66.1	83.2	71.7	S W	S W	S W	121.00
24	.100	.000	009	69 8	87.1	75.2	W	W	W	98 15
25	.000	.121	.126	64.0	81.7	67 6	W	W	W	89.21
26	.161	082	.034	62.1	73.1	68.8	W	S	S	91.20
27	29 842	29.821	29.911	62 5	64·0	63.1	N E	N E	W	80.04
28	30.188	30 075	30.018	58.0	68.3	63 5	W	N E	N E	74.21
29	29.873	29.674	29.649	68.2	76.0	68.9	S	S	W	67.21
30	.643	.527	.576	65.1	72.0	64 1	S	S	W	118.62
31	.750	.851	30.043	60 0	70.2	60.1	W	W	S	104.12

REMARKS.

The highest reading of the Barometer was on the 22nd day, and was 30 301 inches; the lowest reading was on the 29th day, and was 26.642 inches, giving a monthly range of 0.659 inches.

—Observations taken at Halifax, Nova Scotia during the month of August, 1871; Lat. 44°99′ North: Long. 63°36′ West; height above the Sea 175 feet; by John Thurling, Sergt., A. H. Corps, Halifax.

Barometer, highest reading was on the 23rd	30.397	inches.
" lowest " " 21st	29.436	
" range of pressure	0 961	
" mean for month (reduced to 32°)	29.766	
Thermometer, highest in shade on the 2nd	84 0	degrees.
" lowest " " 23rd	42.3	
" range in month	41.7	
" mean of highest	74.8	
" mean of lowest	52.6	
" mean daily range	22.2	
" mean for month	63.7	
" maximum in sun's ray's	130.0	
" minimum on grass	37 0	
Hygrometer, mean of dry bulb	66.7	
" mean of wet bulb	62.1	
" mean of dew point	58.4	
" elastic force of vapour	.489	
" weight of vapour in a cubic foot of air	5.4	grains.
" weight required to saturate do	1.7	
" the figure of humidity (Sat. 100)	75	
" average weight of a cubic foot of air	522.8	
Wind, mean direction of North	4.50	days.
" " East	0 25	
" " South	12.75	
" " West	13.50	
" daily force	1.9	
" daily horizontal movement	310 7	miles.
Cloud, mean amount of, (0-10)	7.2	
Ozone, " " (0-10)	2.4	
Rain, No. of days it fell	12	
Amount collected on ground	4.28	inches.
Fog, No. of days it prevailed	8	

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