

METEOROLOGICAL INTELLIGENCE.

Abstract of Meteorological Observations — 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 August, 1868. 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	29.271	29.207	29.249	64.2	70.9	69.1	W	W	W	71.12 <sub>a</sub>
2	.261	.254	.301	69.0	79.7	67.9	W	W	W	101.10 <sub>b</sub>
3	.451	.547	.599	62.4	84.6	69.2	W	SW	SW	87.41
4	.768	.827	.850	63.1	82.7	67.9	W	NE	NE	77.10
5	.951	.957	.960	65.1	87.9	69.4	NE	E	NE	66.29
6	.957	.912	.850	65.2	87.9	70.0	NE	SE	SE	67.24
7	.807	.649	.499	68.9	85.9	68.2	SE	SE	NE	91.12
8	.479	.432	.562	68.3	75.4	65.0	SE	SW	SW	86.71 <sub>c</sub>
9	.397	.411	.450	65.9	73.7	65.6	W	W	W	81.29 <sub>d</sub>
10	.616	.674	.699	69.0	69.4	63.2	W	W	W	114.10
11	.674	.607	.648	60.3	61.4	60.0	W	NE	NE	91.10 <sub>e</sub>
12	.662	.670	.699	57.2	69.9	61.7	NE	N	E	77.10
13	.651	.644	.650	55.2	70.4	63.9	N	W	W	88.21 <sub>f</sub>
14	.660	.652	.649	62.0	73.9	68.0	W	W	W	104.24 <sub>g</sub>
15	.600	.744	.510	65.0	70.1	63.7	W	W	W	211.10 <sub>h</sub>
16	.789	.800	.848	56.7	68.2	56.0	NE	NE	N	197.41
17	.872	.894	.900	53.3	75.1	52.5	nbye	W	W	99.11
18	.845	.824	.700	58.0	69.4	73.0	W	WSW	WSW	84.29
19	.549	.584	.589	70.0	83.1	70.9	WSW	WSW	WSW	99.74 <sub>i</sub>
20	.601	.647	.689	70.1	82.1	69.0	NE	WSW	W	101.24
21	.710	.849	.884	62.3	83.2	68.0	NE	NE	NE	111.21
22	.897	.846	.800	63.1	83.0	68.2	NE	NE	NE	77.29
23	.801	.744	.672	66.3	83.0	72.4	W	W	W	88.20
24	.575	.634	.662	65.2	87.6	76.0	SW	SW	SW	117.24
25	.766	.717	.749	68.0	87.9	75.0	SW	SW	WSW	212.10
26	.750	.847	.901	63.7	85.7	58.8	WSW	WSW	NE	91.21 <sub>k</sub>
27	30.061	30.049	30.001	54.0	77.7	58.7	NE	NE	NE	77.49
28	29.864	29.810	29.916	56.6	74.3	67.4	NE	SW	SW	66.24
29	.614	.502	.462	63.7	80.1	76.2	SW	SW	SW	71.10 <sup>*</sup>
30	.610	.662	.711	63.0	87.1	69.2	W	W	N	84.29
31	.844	.60	.11	60.1	78.6	69.4	NE	NE	NE	66.24

RAIN IN INCHES. — a, 0.343; b, 0.734; c, 0.114; d, 0.11; e, 0.102; f, g, Inapp.; h, 0.217; i, 0.395; k, 0.320; \* 0.036.

The mean temperature of the month was 69.94 degrees, which is scarcely a degree higher than the Isothermal for Montreal for the month of August, reduced from observations during a long series of years.

The highest reading of the Barometer was 30.061, and the lowest 29.207—giving a range of 0.854 inches.

Rain fell in 11 days amounting to 2.662 inches, and was accompanied by thunder on three days.

— Meteorological observations taken at Quebec, during the month of August, 1868. Latitude 46°48'30" N.; Longitude 71°12'15" W.; height above St. Lawrence, 230 feet; By Sergt. J. Thurling, A. H. C., Quebec.

Barometer, highest reading on the 27th.....	30.184 inches.
lowest " 1st.....	29.392
range of pressure.....	.792
mean for month reduced to 32°.....	29.677
Thermometer, highest reading on the 7th.....	87.5 degrees
lowest " ".....	47.3
range in month.....	40.2
Mean of highest.....	75.9
" lowest.....	55.7
" daily range.....	20.2
" of month.....	65.8
maximum in sun's rays, black bulb, mean of.....	111.7
minimum on grass.....	51.4
Hygrometer, mean of dry bulb.....	68.6
" wet bulb.....	62.7
" dew point.....	58.0
Elastic force of vapour.....	482 inches.
Vapour in a cubic foot of air.....	5.3 grains.
" required to saturate, do.....	2.1
Mean degree of humidity (Sat. 100).....	68
Average weight of a cubic foot of air.....	507.6 grains.
Cloud, mean amount of (0-10).....	5.7
Ozone, " ".....	1.2
Wind, general direction.....	Westerly.
mean daily horizontal movement.....	106.6 miles.
Rain, number of days it fell.....	15
amount collected on the ground.....	5.16 inches
" " 10 feet above ground.....	4.62

— From the Records of the Montreal Observatory for September 1868. 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	29.411	29.571	29.720	66.7	70.1	59.3	W	W	W	124.10 <sub>a</sub>
2	.849	.887	.891	54.1	74.0	59.4	NE	NE	NE	202.12
3	.999	.949	.901	54.2	74.0	58.9	NE	NE	NE	71.70 <sub>b</sub>
4	.849	.712	.675	56.2	72.1	65.2	SE	SE	SE	94.10 <sub>c</sub>
5	.549	.553	.560	61.2	73.2	62.0	W	W	W	89.24
6	.611	.574	.560	59.0	70.2	63.2	W	W	W	101.10
7	.550	.647	.649	58.4	61.0	56.0	NE	W	W	77.21 <sub>d</sub>
8	.812	.721	.649	49.1	70.0	66.2	W	SE	W	68.19
9	.443	.441	.600	57.0	66.7	61.1	SE	SE	W	77.24 <sub>e</sub>
10	.675	.662	.650	61.0	70.9	67.0	SE	SE	W	57.20
11	.710	.804	.811	64.0	76.9	68.7	SW	SW	SW	59.24 <sub>f</sub>
12	.862	.811	.700	64.0	80.7	68.4	NE	NE	NE	91.11 <sub>g</sub>
13	.600	.701	.849	66.1	76.2	60.5	SW	SW	nbye	94.21 <sub>h</sub>
14	.950	.979	.999	55.1	79.8	60.0	W	W	W	88.29
15	.997	.817	.700	53.1	80.0	60.4	W	W	W	76.29
16	.423	.592	.761	56.0	70.2	45.0	SE	W	W	161.10 <sub>j</sub>
17	.800	.833	.850	38.7	68.3	45.9	W	W	W	78.29
18	.949	.979	30.000	46.1	69.1	52.3	W	W	W	66.20
19	30.100	30.031	29.900	48.2	68.1	56.7	W	W	SE	51.29
20	29.726	29.497	.646	54.6	65.1	47.0	SW	SW	NE	89.00 <sub>k</sub>
21	.850	.819	.750	38.0	58.0	44.0	W	W	W	101.29
22	.742	.637	.690	41.1	58.0	51.6	W	W	W	77.24
23	.500	.615	.716	51.0	54.2	49.1	SW	SW	SW	89.71 <sup>*</sup>
24	.961	.911	.850	42.0	58.0	46.0	SW	W	W	101.20
25	.652	.509	.497	40.0	50.4	46.1	NE	NE	NE	99.10 <sub>l</sub>
26	.700	.792	.800	42.0	58.3	41.1	W	W	W	91.21
27	.701	.614	.561	40.2	63.0	52.0	W	W	W	66.22
28	.362	.417	.525	52.2	63.4	55.0	SW	W	W	51.11 <sub>l</sub>
29	.541	.532	.600	47.0	52.0	44.1	W	W	W	69.20 <sub>l</sub>
30	.649	.502	.550	40.0	48.1	40.1	W	SW	—	101.16 <sub>l</sub>

RAIN IN INCHES — a, 0.036; b, g, †, Inapp.; c, 0.101; d, 0.303; e, 0.571; f, 0.121; h, 0.634; j, 0.396; k, 0.531; \* 0.255; † 0.646.

The highest reading of the Barometer was on the 19th day, and was 30.100 inches, and the lowest was on the 1st day, 29.411 inches, giving a monthly range of 0.689 inches. The mean temperature of the month was 57.094 degrees, which shows a decrease of 31.6 degrees in temperature from the Isothermal for September, reduced from a long series of observations.

Rain fell on 15 days, amounting to 3.494 inches.

The first frost of the Autumn occurred on the 17th day.

— Meteorological Observations taken at Quebec, during the month of September 1868. By Sergt. John Thurling, A. H. Corps, Quebec.

Barometer, highest reading on the 19th.....	30.230 inches.
lowest " 1st.....	29.450
range of pressure.....	.780
mean for month reduced to 32°.....	29.775
Thermometer, highest reading on the 11th.....	76.6 degrees
lowest " 17th.....	34.0
range in month.....	42.6
Mean of highest.....	62.4
" lowest.....	46.6
" daily range.....	15.8
" of month.....	54.5
maximum in sun's rays, black bulb, mean of.....	88.9
minimum on grass.....	46.0
Hygrometer, mean of dry bulb.....	56.4
" wet bulb.....	52.5
" dew point.....	48.7
Elastic force of vapour.....	.344 inches.
Vapour in a cubic foot of air.....	3.8 grains.
" required to saturate, do.....	1.2
Mean degree of humidity (Sat. 100).....	75
Average weight of a cubic foot of air.....	533.5
Cloud, mean amount of 0-10.....	7.2
Ozone " ".....	1.2
Wind, general direction.....	Easterly.
mean daily horizontal movement.....	113.3 miles.
Rain, number of days it fell.....	19
amount collected on the ground.....	6.38 inches.
" " 10 feet above.....	6.35
Snow, number of days it fell.....	1