

METEOROLOGICAL INTELLIGENCE.

— 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, 1869,—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	70.12 ^a
2	.261	.254	.301	69.0	79.7	67.9	W	W	W	101.10 ^b
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	67.21
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 ^c
9	.397	.411	.450	65.9	73.7	65.6	W	W	W	81.29 ^d
10	.616	.674	.699	60.0	69.4	63.2	W	W	W	114.10
11	.674	.607	.648	60.3	61.4	60.0	W	NE	NE	91.10 ^e
12	.662	.670	.699	57.2	69.9	61.7	NE	N	E	77.10
13	.651	.644	.650	53.2	70.4	63.9	N	W	W	88.21 ^f
14	.660	.652	.649	62.0	73.9	68.0	W	W	W	104.24 ^g
15	.600	.644	.510	65.0	70.1	63.7	W	W	W	211.10 ^h
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	n by w	W SW	W SW	99.11
18	.849	.824	.700	58.0	69.4	73.0	W	SW	SW	84.29
19	.549	.584	.589	70.0	83.1	70.9	W SW	W SW	W SW	99.74 ^j
20	.601	.647	.689	70.1	82.1	69.0	NE	W SW	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	SW	212.10
26	.750	.847	.901	68.7	85.7	58.8	W SW	W SW	NE	91.21 ^k
27	30.061	30.049	30.001	53.0	77.7	58.7	NE	NE	NE	77.49
28	29.864	29.810	29.926	56.6	74.3	67.4	NE	SW	SW	66.24
29	.614	.502	.462	63.7	80.1	70.2	SW	SW	SW	71.10 [*]
30	.610	.662	.711	63.0	87.1	69.2	W	W by N	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*, 0.111; *e*, 0.102; *f*, *g*, *h*, 0.217; *j*, 0.395; *k*, 0.320; *, 0.036.

The mean temperature of the month was 60° 94, which is scarcely a degree lower 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, 1869—Lat. 46° 40' 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 1st.....	30.150 inches.
" lowest " 3rd.....	29.444
" range of pressure.....	0.706
" mean for month reduced to 32°.....	29.684
Thermometer, highest reading on the 11th.....	80.2 degrees.
" lowest " 6.....	46.0
" range in month.....	34.2
" mean for month.....	62.6
" mean of maximum in sun's-rays, black bulb..	104.9
" mean of minimum on grass.....	51.9
Hygrometer, mean of dry bulb.....	64.8
" wet bulb.....	58.2
" dew point.....	52.2
Elastic force of vapour.....	400 inches.
Vapour in a cubic foot of air.....	4.5 grains.
" required to saturate, do.....	2.3 " "
Mean degree of humidity (Sat. 100).....	65
Average weight of a cubic foot of air.....	523.0 grains.
Cloud, mean amount of (0-10).....	7.1
Ozone " " (0-10).....	2.1
Wind, general direction.....	S. W. and W.
Mean daily horizontal movement.....	126.8 miles.
Rain, number of days it fell.....	15
Amount collected on ground.....	2.93 inches.

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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	30.147	30.199	30.201	49.7	62.3	54.0	wby N	wby N	wby N	101.11
2	.301	.301	.251	54.1	69.4	57.8	wby N	wby N	wby N	91.10
3	.200	.114	.061	58.0	73.0	61.1	NE	W	W	89.91
4	.042	.040	.052	58.4	74.2	67.7	W	W	W	114.10
5	.049	.021	.000	64.0	84.2	71.6	W	W	W	121.20
6	.047	.014	.030	65.2	76.1	70.0	W	SW	SW	90.00
7	.060	29.947	29.825	68.0	77.9	72.1	SW	SW	SW	89.44
8	29.671	.600	.549	69.1	75.2	62.7	SW	SW	NE	204.21
9	.651	.842	.970	54.1	60.1	52.4	NE	NE	NE	194.12
10	30.049	30.025	30.026	53.7	61.3	58.0	W	W	W	99.27
11	.099	.061	.100	54.2	78.4	61.0	W	SW	SW	77.00
12	.151	.243	.250	64.0	78.0	66.7	W	wby N	wby N	91.10
13	.325	.337	.349	61.1	84.1	70.2	W	NE	NE	41.27
14	.375	.335	.300	67.0	82.1	71.0	W	SW	SW	50.42
15	.269	.174	.079	63.1	82.2	73.0	NE	W SW	SW	99.24
16	.075	.097	.110	64.0	86.1	67.7	SW	SW	NE	60.00
17	.161	.159	.212	63.0	67.1	64.0	W	W	W	57.71
18	.301	.292	.287	62.0	77.9	66.1	W	SW	W	91.00
19	.201	.177	.101	65.7	81.6	77.0	W SW	W SW	W SW	101.14
20	.067	.121	.150	68.7	82.6	69.8	NE	NE	NE	207.10
21	.150	.154	.160	58.1	59.2	58.2	NE	NE	NE	91.11
22	.247	.277	.300	56.1	64.6	59.1	NE	NE	NE	104.24
23	.351	.340	.311	59.0	80.4	61.7	NE	W	W	81.11
24	.342	.311	.241	56.4	82.1	68.2	W	W	W	77.43
25	.212	.114	.060	64.3	75.0	68.1	W	SW	SW	99.14
26	29.764	29.600	29.799	63.0	65.0	47.0	SW	SW	SW	157.24
27	.849	.899	.961	41.0	47.8	45.0	W	wby N	wby N	145.10
28	30.147	30.112	30.149	37.4	57.7	46.7	wby N	W SW	W SW	211.21
29	.169	.174	.199	49.1	67.9	57.5	W	W	W	101.10
30	.160	.06	.125	55.7	75.7	62.9	W	W	W	199.27

REMARKS.

The Barometer indicated a high reading during the month, and attained on the 14th day 30.375 inches; the monthly range was 0.726 inches.

The mean temperature of the month was 65° 53 which was 12° 41 higher than the mean of last September, and 7° 0 higher than the mean annual temperature for September for Montreal.

The highest reading was 86° 01 on the 6th day, and the lowest 35° 0 on the 28th day.

First frost of the Autumn occurred on the morning of the 28th day, and a very small amount of snow fell on the 27th day.

Rain fell on 10 days, amounting to 4.096 inches, and was accompanied by thunder on one day.

— Meteorological Observations taken at Quebec, during the month of September, 1869; 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 13th.....	30.181 inches.
" lowest " 9th.....	29.387
" range of pressure.....	0.794
" mean for month.....	29.833
Thermometer, highest reading on the 8th.....	82.0 degrees.
" lowest " 28th.....	34.3
" range in month.....	47.7
" mean for month.....	61.8
" Maximum in Sun's rays, mean of (black bulb.)	100.7
" Minimum on Grass mean of.....	51.6
Hygrometer, mean of dry bulb.....	63.4
" wet bulb.....	58.7
" dew point.....	54.9
" elastic force of vapour.....	.439 inches.
" vapour in a cubic foot of air.....	4.9 grains.
" required to saturate do.....	1.5
" mean degree of humidity (Sat. 100).....	74
" average weight of a cubic foot of air.....	527.8 grains.
Cloud, mean amount of (0-10).....	7.0
Ozone, " ".....	1.4
Wind, general direction.....	S. W. & N. E.
" mean daily horizontal movement.....	115.4 miles.
Rain, number of days it fell.....	15
" Amount collected on ground.....	3.95 inches.