

ABSTRACT OF METEOROLOGICAL OBSERVATIONS,

Taken at the Montreal Observatory, Latitude 45° 31' N. Longitude, 4h. 54m. 11s. W. of Greenwich. Height above level of the Sea 182 feet. For the month of October, 1864.

BY CHARLES SMALLWOOD, M. D., LL. D., D. C. L.

Day of Month.	Reading of the Barometer, corrected, and reduced to 32° F.			Reading of Thermometer.			Mean Tension of Vapor.	Mean Humidity of the Atmosphere.	General direction of Wind.	Horizontal movement in miles.	Mean extent of Clouds in 10ths.	Depth of Rain in inches.	Depth of Snow in inches.	Ozone in 10ths.	Weather, &c.	Remarks for the Month.
	Highest	Lowest	Mean.	Max.	Min.	Mean.										
1	30.200	30.139	30.179	66.1	36.7	52.5	.829	W	152.40	5.6	6.272	.....	1.0	Rain.	Highest, the 1st day, 20.200 inches.
2	30.100	.008	.009	54.6	50.2	51.8	.393	N E	70.10	10.0	.....	.....	2.0	Rain.	Lowest, the 7th day, 29.260 "
3	.067	.023	.047	67.3	50.8	57.6	.450	N E	91.08	9.6	.....	.....	2.6	.....	Monthly Mean, 29.534.
4	29.929	29.929	29.968	67.9	47.8	59.9	.462	N E	11.52	5.3	.....	.....	2.0	.....	Monthly Range, 0.940.
5	29.930	.904	.920	78.2	43.5	61.6	.501	W	21.61	1.3	.....	.....	1.6	Rain.	Highest, the 5th day, 78.2.
6	.622	.410	.546	56.2	54.0	58.2	.439	W	29.64	10.0	0.676	.....	1.6	Rain.	Lowest, the 29th day, 28.5.
7	.384	.290	.324	69.3	50.0	59.8	.447	S W	29.91	6.6	0.320	.....	1.6	Rain.	Monthly Range, 46.69
8	.302	.300	.300	43.4	19.1	30.8	.227	S W	59.91	10.0	0.041	Inapp	1.6	Rain.	Monthly Mean, 48.24.	
9	.491	.462	.475	43.0	29.2	39.1	.217	N E	29.25	9.6	0.146	.....	1.6	Rain.	Greatest intensity of the Sun's rays, 99.2.
10	.514	.470	.491	48.1	36.0	43.0	.255	N E	122.00	3.3	0.430	.....	1.6	Rain.	Lowest point of terrestrial radiation, 24.0.
11	.891	.739	.815	53.3	35.6	45.5	.279	N E	87.84	10.0	0.046	.....	2.0	Rain.	Mean of Humidity, .884.
12	.793	.649	.721	47.3	33.2	43.1	.270	W by N	154.35	4.6	.....	.....	2.0	Rain.	Rain fell on 17 days, amounting to 3.794 inches.
13	.519	.477	.504	45.2	37.4	42.3	.297	N E	21.52	10.0	0.114	.....	2.0	Rain.	Snow fell on 2 days, amounting to 0.10 inches.
14	.413	.391	.401	47.3	38.5	44.0	.319	N E	102.75	10.0	0.210	.....	2.3	Rain.	Most prevalent wind, N. E.
15	.654	.554	.604	44.2	48.1	46.0	.319	N E	64.00	10.0	0.117	.....	2.6	Rain.	Least prevalent wind, S. W.
16	.674	.564	.619	44.2	48.1	46.0	.315	N E	54.60	9.6	0.652	.....	2.0	Rain.	Most windy day the 8th day, mean miles per hour, 11.13.
17	.600	.523	.565	46.3	45.2	46.1	.273	W by N	79.90	5.3	0.024	.....	2.3	Rain.	Least windy day, the 4th day, mean miles per hour, 0.7.
18	.654	.627	.641	52.0	39.1	43.7	.285	W	47.70	6.0	.....	.....	1.3	Au. Borealis.	Amount of Evaporation 2.14 inches.
19	.671	.663	.667	52.2	39.3	45.6	.293	W	57.49	7.6	0.018	.....	2.0	Rain.	Aurora Borealis, visible on 2 nights.
20	.597	.594	.597	52.2	39.3	45.6	.293	W	57.49	7.6	.....	.....	1.6	Rain.	
21	.757	.752	.759	58.1	35.3	46.8	.311	N W	39.63	8.0	Inapp	.....	2.0	Rain.	
22	.759	.697	.729	48.0	36.4	42.7	.308	W by N	97.69	8.0	Inapp	.....	1.0	Rain.	
23	.604	.597	.600	51.0	44.2	47.1	.310	N W	101.63	2.6	.....	.....	1.3	Au. Borealis.	
24	.829	.808	.818	58.0	38.1	47.1	.308	W by N	97.69	8.0	Inapp	.....	1.6	Rain.	
25	.724	.698	.711	49.7	34.1	44.5	.272	N E	110.90	4.6	.....	.....	1.0	Rain.	
26	.764	.596	.680	49.7	38.2	47.2	.308	N E	117.20	8.6	.....	.....	1.3	Au. Borealis.	
27	.784	.673	.728	48.0	32.6	41.5	.227	N W	185.90	1.3	.....	.....	1.6	Rain.	
28	.654	.625	.640	42.1	33.0	37.5	.229	N E	17.21	10.0	0.420	.....	1.6	Rain.	
29	.664	.657	.661	49.7	28.5	40.3	.244	N W	407.42	0.8	0.941	.....	3.0	Rain.—Snow.	
30	.660	.472	.566	60.1	39.1	49.1	.285	W W	113.22	1.3	.....	.....	2.0	Rain.	
31	.260	.247	.253	59.3	31.4	41.4	.285	W W	223.53	8.0	.....	.....	1.6	Rain.	