

—OBSERVATIONS from the Records of the Montreal Observatory, Lat. 45° 31' North; Long. 4h. 54m. 17 sec. West of Greenwich; Height above the level of the sea, 182 feet;—for the month of Sept., 1873.—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	29.724	.520	.624	57.5	73.6	64.5	w	w	w	149.97
2	.700	.760	.804	59.0	70.0	61.6	w	w	w	134.40
3	30.061	30.047	30.015	56.0	74.9	62.7	nw	w	w	95.18
4	29.876	29.706	29.597	59.5	83.0	62.0	s	se	se	81.25
5	.628	.500	.846	65.1	70.6	60.1	w	w	w	189.00
6	30.150	30.232	30.287	51.8	68.4	56.8	nw	nw	nw	86.38
7	.311	.201	.159	50.6	60.2	57.6	w	se	se	57.28
8	.252	.297	.358	53.0	71.1	59.3	wbn	w	w	104.29
9	.400	.368	.382	51.4	72.0	63.7	w	w	w	62.71
10	.311	.200	.162	56.0	70.0	64.1	w	w	w	95.66
11	.110	.100	29.998	57.9	78.9	68.0	s	ws	w	95.28
12	29.964	29.876	.825	62.0	83.4	72.5	w	sw	sw	75.72
13	.624	.716	.904	67.5	65.7	58.0	s	w	w	102.66
14	.998	.982	30.096	47.6	56.0	51.1	ne	w	w	104.35
15	30.160	30.084	29.973	44.5	61.1	54.2	w	sw	s	65.01
16	29.800	29.851	.992	53.6	68.7	53.0	s	w	w	182.30
17	30.063	30.262	30.202	43.1	51.6	47.1	w	w	w	64.40
18	.161	29.811	29.001	44.5	56.0	62.2	e	ne	ne	69.69
19	29.692	.599	.647	62.5	66.0	50.1	s	w	w	158.64
20	.641	.700	.940	45.1	58.0	48.0	w	w	w	177.27
21	30.151	30.248	30.278	43.2	59.5	48.1	w	w	w	128.44
22	.350	.246	.192	46.5	62.2	57.0	w	w	w	63.38
23	.082	29.907	.918	51.0	54.0	51.0	s	s	clm	62.72
24	.000	.000	30.002	52.0	65.1	56.7	sw	w	w	79.45
25	29.990	29.356	29.796	49.0	58.6	58.2	ne	s	w	135.48
26	30.067	30.097	31.158	53.5	64.0	58.9	w	w	w	121.89
27	.076	29.980	30.000	57.8	84.9	72.0	sw	w	w	188.05
28	30.122	30.050	29.212	67.5	79.5	72.1	w	w	w	90.45
29	29.626	29.252	.762	68.5	70.6	82.2	s	w	w	153.05
30	30.122	30.057	30.124	43.7	59.9	43.4	n	w	w	65.27
31	.000	.000	.000	00.0	00.0	00.0				

REMARKS.—The highest reading of the Barometer was 30.427 inches, on the 9th day, and the lowest, 29.500, on the 1st day, giving a range of 0.927 inches. The mean of the month was 29.963 inches. The highest Temperature was 85° 3', on the 27th day, and the

the lowest on the 17th day, giving a range or climatic difference of 45°. The mean temperature of the month was 59° 70'. Rain fell on 16 days, amounting to 4.659 inches, and was accompanied by thunder and lightning on 3 days. Hail fell on 2 days. First frost of Autumn occurred on the 17th day.

—OBSERVATIONS taken at Halifax, Nova Scotia, during the month of September, 1873; Lat: 44° 39' North; Long. 63° 36' West; height above the sea, 125 feet, by Serg't John Thurling, A. H. Corps.

Barometer, highest reading on the 10th.....	30.410 inches.
" lowest " " 20th	29.382 "
" range in month	1.028
" mean for month (reduced to 32°).....	29.909
Thermometer, highest in month on 28th.....	81.8 degrees.
" lowest " " 16th	34.3
" range in month	47.5
" mean of all highest	68.3
" mean of all lowest	45.7
" mean daily range	22.6
" mean for month	57.0
" highest reading in sun's rays	Instrument broken
" lowest reading on the grass	23.3 degrees.
Hygrometer, mean of dry bulb.....	60.3 "
" mean of wet bulb	56.2
" mean dew point	52.6
" elastic force of vapour .....	.397 inches.
" weight of vapour in a cubic foot of air... 4.4	grains.
" weight required to saturate do	1.4
" the figure of humidity (Sat. 100)	76
" average weight of a cubic foot of air.....	531.8 grains.
Wind, mean direction of, North.....	5.25 days.
" " East	0.50
" " South.....	6.50
" " West.....	15.25
" " Calm.....	2.50
" daily force (0-12).....	2.4
" daily horizontal movement.....	257.2 miles.
Cloud, mean amount of (0-10).....	6.4
Ozone, mean amount of (0-10).....	1.9
Rain, number of days it fell.....	13
" amount collected on ground	4.60 inches.
Fog, number of days;	3

Synopsis of Temperature, Cloud and Precipitation for the Month of August, 1873, compiled at the Toronto Observatory from observations in the several Provinces of the Dominion of Canada :—

PROVINCE.	ONTARIO.			QUEBEC.		N. SCOTIA.	N. BRUNSWICK.		MANITOBA.	B. COLUMBIA
	TORONTO. 6 & 8 A. M. 2, 4, 10 & 12 P. M.	LITTLE CURRENT. 7 A. M. 2 & 9 P. M.	FITZROY HARBOR. 7 A. M. 2 & 9 P. M.	MONTREAL. 7 A. M. 2 & 9 P. M.	QUEBEC. Highest & Lowest.	HALIFAX. Tri-Hourly.	ST. JOHN. 6 A. M. 2 & 9 P. M.	FREDERIC- TON. 7 A. M. 2 & 9 P. M.	WINNIPEG. 7 A. M. 2 & 9 P. M.	SPENCE'S BRIDGE. 7 A. M. 2 & 9 P. M.
Mean temperature uncorrected for diurn. variation	66°59	66°10	67°57	69°40	63°80	62°87	59°43	63°35	63°73	71°30
Warmest day	22	1	2	2	16	3	15	3	4	17
Temperature	74.73	76.00	76.50	74.20	72.00	69.54	68.30	72.33	75.92	79.20
Coldest day	25	24	24	23	25	26	25	25	21	26
Temperature	61.55	57.90	57.25	62.32	54.50	51.27	50.30	50.17	53.50	59.00
Mean of daily Maxima.....	75.52	74.70	.....	78.98	74.20	75.99	68.39	72.32	78.24	82.68
Mean of daily Minima.....	57.54	56.60	.....	59.85	53.40	53.99	53.16	54.03	51.38	56.90
Highest temperature.....	85.0	87.5	87.0	85.3	83.0	87.4	80.0	83.0	94.3	93.0
Date	22	29	30	29	15	29	15	3	8	15
Lowest temperature.....	46.4	47.5	49.0	49.1	42.0	43.8	45.0	40.0	38.0	49.0
Date	24	19	24	24	27	28	28	28	30	30.31
Percentage of Cloud.....	48	42	39	25	46	57	59	50	35	40
Depth of rain in inches.....	1.913	2.970	2.790	1.717	3.445	3.445	2.780	1.520	1.170	0.340
Number of days in which rain fell.....	12	6	11	11	11	12	9	7	10	1
Number of Fair days.....	19	25	20	20	20	19	22	24	21	30