MONTHLY METEOROLOGICAL REGISTER AT H. M. MAGNETICAL OBSERVATORY, TORONTO, C. W.—NOVEMBER, 1845.

Latitude 43°. 39′.4. *N.* *Longitude* 79°. 21′.5. *W.* *Elevation above Lake Ontario,* 108 *Feet.*

Day.	Barometer at Temp. of 32°.				Tension of Vapour.				Temperature of the Air.				Humidity of the Air.				Wind.			Rain or Snow.	Weather.
	7 A.M.	3 P.M.	10 P.M.	Mean.	7 A.M	3 P.M	10 P.M	Mean	7 A.M	3 P.M.	10 P.M	Mean	7 A.M.	3 P.M	10 P.M.	Mean	7 A.M.	3 P.M.	10 P.M.		
1,	29.396	29.286	29.299	29.292	.276	.194	.192	.236	47.3	57.8	39.4	46.6	.86	.41	.80	.76	Calm.	SW.by W.	Calm.	0.080	Generally clear.
2,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Clouded.
3,	29.081	29.139	29.237	29.173	.212	.261	.242	.241	37 6	46.1	41.0	41 6	.95	.85	.95	.92	N. by W.	S. by W.	Calm.	.300	Raining a.m. Clouded all day.
4,	29.318	29.353	29.356	29.344	.219	.221	.200	.210	38 9	44 1	40 5	41 5	.93	.77	.80	.81	Calm.	Calm.	NW.by W.	—	Mostly clouded.
5,	29.275	29.283	29.319	29.288	.208	.206	.200	.212	39.0	42.4	40.3	41.6	.88	.76	.81	.81	Calm.	S. W.	S. W.	—	Clouded. Drizzling rain 2 p.m.
6,	29.291	29.332	29.553	29.433	.215	.271	.216	.229	41 7	44 9	39 9	41.8	.82	.92	.88	.87	S. W.	N. W.	N.W.	—	Raining from 10 a.m. to 4 p.m.
7,	29.637	29.524	29.435	29.493	.182	.206	.226	.211	37.8	41.8	39.9	39.3	.80	.79	.93	.87	Calm.	S W. by S.	Calm.	.170	Clouded. Slight rain 1 and 2 a.m.
8,	29.341	29.423	29.450	29.382	.198	.170	.181	.173	36 2	34 1	33.5	34.9	.91	.87	.95	.87	N.	N. by E.	N.	.100	Rain,a.m. Slight snow,6. 7, 8,pm.
9,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	.015	Partially clouded.
10,	29.340	29.360	29.449	29.405	.167	.226	.169	.192	35.9	45 4	38.2	39 2	.79	.75	.73	.81	W. by S.	Calm.	W.N.W.	—	Partially clouded.
11,	29.501	29.579	29.657	29.603	.193	.206	.181	.190	37.0	42 4	37.4	37.8	.88	.76	.81	.84	N.N.E.	Calm.	N.	—	Densely clouded all day.
12,	29.708	29.717	29.728	29.723	.152	.175	.141	.162	30.0	40.1	30 8	35 8	91	.71	.81	.78	Calm.	S.	Calm.	—	Gen'ly cloudy—halo round moon 8 p.m.
13,	29.688	29.499	29.402	29.502	.188	.296	.231	.236	35.8	50.0	45 5	44.5	.90	.84	.76	.81	Calm.	S.W. by S.	W.S.W.	—	Gen'ly cloudy
14,	29.404	29.409	29.596	29.501	.211	.181	.193	.199	40.1	49.2	38.3	41 9	.86	.51	.85	.79	W. by S.	N.W.	Calm.	—	Halo 1 am. clouded am. mostly clear pm.
15,	29.699	29.597	29.428	29.573	.157	.229	.221	.205	30.8	43.1	42.1	38.6	.92	.83	.83	.88	Calm.	S. by E.	S.W. by S.	—	Mostly clear.
16,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Generally clouded.
17,	29.508	29.499	29.507	29.511	.225	—	—	.290	39.3	46.2	48.7	45 8	.94	1.00	1.00	.98	Calm.	Calm.	Calm.	—	Unclouded but hazy.
18,	29.493	29.357	29.176	29.322	.319	.349	.329	.326	47.1	52.1	52 3	51.1	1.00	.91	.86	.91	Calm.	E. by N.	Calm.	.255	Hazy a.m. Rain 10 a.m to 4 p.m.
19,	29.300	29.325	29.317	29.311	.200	.194	.156	.186	44.6	42.9	31.2	39 7	.69	.71	.90	.77	S.W by W	S. W.	Calm.	.030	Rain 0 to 5 a.m. and 9 to 12 p.m.
20,	29.200	29.062	29.129	29.145	.195	.275	.207	.219	37.2	51.2	42.8	44 0	.88	.74	.75	.77	Calm.	S.S.W.	W. by S.	—	Raining a.m., clear 8 to 12 p.m.
21,	29.274	29.354	29.463	29.406	.124	.135	.132	.138	33.6	36.2	27.0	33.0	.64	.63	.88	.74	W.S.W.	W. by S.	W.	—	Halo round moon am., gen'ly cl'dy
22,	29.579	29.511	29.206	29.517	.142	.147	.187	.146	31.0	35.6	37.6	32.1	.81	.69	.83	.78	W. by N.	Calm.	N.N.E.	—	Mostly clear.
23,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Gen'ly cl'dy, particles of snow,pm.
24,	29.802	29.856	29.883	29.852	.099	.091	.103	.103	21.2	26 8	24 0	24.7	.84	.61	.77	.76	Calm.	S. W.	Calm.	235	Rain a.m. Occasional light snow.
25,	29.729	29.699	29.872	29.795	.170	.139	.126	.144	31.9	38 3	33.6	34.7	.95	.60	.66	.73	S.E. by S.	SW. by W	Calm.	—	Gen'ly clear. Detached clouds.
26,	30.006	29.814	29.602	29.741	.154	.152	.151	.144	32.4	32.6	31.7	30 8	.84	.82	.84	.83	N.	N. by E.	N. by W.	—	Overcast. Dense haze.
27,	29.463	29.437	29.543	29.501	.096	.094	.071	.077	21 8	21.8	14.2	17.6	.79	.78	.80	.74	NW.by N.	N W.	W.	—	Overcast. Dense haze. Foggy.
28,	29.708	29.792	29.944	29.860	.038	.074	.067	.062	7 6	19.3	14.6	13.8	.57	.68	.75	.71	Calm.	Calm.	Calm.	0.5 sn	Snow 1 to 11 a.m. clear 8 to 12 pm.
29,	30.062	30.084	30.060	30.020	.072	.108	.105	.092	15.4	20.8	20 6	19.6	.78	.93	.91	.83	Calm.	N.N.E.	W.	—	Auroral light 0 am, gen'ly clear.
30,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.5 sn	Clear a.m., snow noon to 6 pm.
Mean	29.512	29.492	29.504	29.508	.176	.192	.176	.185	34.0	40.2	35.4	36.5	85	.75	.83	.81			Total,	6.185*	Mostly clouded.

* Rain, 1.185 inches. Snow, 5.0 inches.—Total, 6,185 inches.

Highest Barometer, ... 30.125 at 10 a.m. of 23th.
Lowest do. .. .. .. 29.053 at 4 p.m. of 20th.
Highest Temperature, ... 59°.5 on 1st, p.m.
Lowest do. .. .. .. 7°.6 on 29th, a.m.
Mean Daily Range, ... 12°.6
Extreme Daily Range, ... 25°.9 on 1st, p.m.—21, a.m.

Proportion of Wind from each Quarter—
N.W. 120
S.W. 179
N.E. 51
S.E. 25
Proportion of Calm, ... 216

Under the head of Tension of Vapour, is given the elastic force of the Aqueous Vapour in the Atmosphere at each Observation, in decimals of an inch of Mercury, or the proportion of the Barometric pressure due to its presence.
Under the head of Humidity of the Air, is given the proportion the Aqueous Vapour bears to the quantity the air is capable of sustaining at the existing temperature, saturation being represented by 1.00.
The Instruments are Standard Instruments. The Rain Gauge 27 feet above the soil.
The Means entered are the Means by 24 hourly Observations, from 6, a.m., to 6, a.m.
The quantity of Rain received each 24 hours, is noted at 9, a.m., and is marked in inches.