(For the Brit. Amer. Journ. of Med. and Phys. Science.)

MONTHLY METEOROLOGICAL REGISTER AT. H.M. MAGNETICAL OBSERVATORY, TORONTO, C. W.—MAY, 1847.

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

Day.	Barometer at Temp. of 32°.				Temperature of the Air.				Tension of Vapour.				Humidity of the Air.				Wind.			Rain in. on surf.	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,	29.658	29.641	29.633	29.620	36.2°	41.9°	37.4°	39.90	.116	.126	.121	.127	.54	.48	.53	.52	N. by W.	Calm.	E.	—	Gen. cl'd. Halo at 9 am. Rain at 9 pm
2,	29.470	29.485	—	—	38.7	40.1	—	—	.143	.187	—	—	.61	.76	—	—	E. by N.	N.E. by N.	—	0.050	
3,	29.617	29.723	29.822	29.750	41.0	48.1	39.1	41.99	.169	.193	.167	.177	.66	.57	.69	.66	W. S. W.	W. by N.	Calm.	0.040	Mostly clear.
4,	29.917	29.847	29.856	29.880	43.7	52.6	41.9	45.78	.213	.206	.198	.202	.76	.53	.75	.67	Calm.	S.	Calm.	—	Clouded from 11 am to 8 pm. Rem cl'r.
5,	29.959	29.875	29.839	29.880	46.3	60.8	41.9	47.86	.205	.215	.191	.208	.66	.41	.73	.65	Calm.	S. E. by S.	Calm.	—	Clear all day.
6,	29.863	29.701	29.632	29.685	46.5	59.3	45.8	49.77	.240	.250	.216	.225	.77	.51	.71	.65	Calm.	E. S. E.	Calm.	—	Do do.
7,	29.509	29.313	29.238	29.300	50.1	57.7	48.9	55.70	.248	.248	.205	.238	.69	.53	.60	.54	Calm.	E.	N. N. W.	—	Clear till 2 pm. Rem. mostly clouded. Auroral light at night, 10 pm
8,	29.148	29.154	29.255	29.274	49.3	64.3	57.1	55.02	.240	.242	.245	.249	.69	.41	.54	.60	Calm.	N. E.	N. by E.	not ap	Clouded. Gloomy. Slight rain at 4 a m
9,	29.506	29.540	—	—	52.1	56.7	—	—	.218	.306	—	—	.57	.67	—	—	N E by E.	Calm.	—	—	Generally clouded.
10,	29.636	29.549	29.545	29.563	52.5	61.2	52.4	55.75	.255	.362	.363	.349	.66	.68	.94	.81	Calm.	E. by S.	Calm.	—	Cl'r till 11 am. Rem cl'd. Rain fr 9 pm
11,	29.538	29.458	29.418	29.454	52.1	63.3	53.1	56.91	.364	.406	.380	.386	.96	.72	.96	.86	Calm.	E. by S.	Calm.	0.320	Clouded. Occasional showers.
12,	29.413	29.432	29.530	29.478	55.0	61.3	59.5	59.72	.393	.442	.429	.417	.92	.83	.87	.83	Calm.	N.E. by E.	Calm.	0.300	Cl'd. R'n fr 1 to 5 am & fr 5 pm to mid.
13,	29.667	29.673	29.684	29.685	57.7	63.5	51.6	56.82	.359	.329	.293	.305	.77	.57	.78	.68	N.E. by E.	E. by S.	E.N.E.	0.020	Generally clear. Fine.
14,	29.732	29.743	29.727	29.738	58.2	57.8	49.3	53.07	.296	.313	.268	.279	.63	.67	.77	.71	Calm.	E. S. E.	Calm.	—	Do do.
15,	29.767	29.716	29.722	29.682	55.7	69.3	51.4	57.52	.295	.355	.305	.311	.67	.51	.81	.66	Calm.	E. S. E.	Calm.	—	Clear all day.
16,	29.699	29.620	—	—	63.1	64.5	—	—	.302	.273	—	—	.53	.45	—	—	E.	E. by S.	—	—	Unclouded. Somewhat smoky.
17,	29.545	29.480	29.442	29.482	52.1	64.9	55.8	57.30	.272	.272	.260	.267	.71	.44	.60	.58	Calm.	E.	Calm.	—	Clear all day.
18,	29.483	29.432	29.468	29.462	53.3	67.3	53.0	58.12	.281	.355	.286	.315	.71	.54	.72	.67	Calm.	E. S. E.	Calm.	—	Do do.
19,	29.523	29.566	29.593	29.579	53.7	65.4	58.4	58.94	.279	.346	.240	.304	.68	.56	.50	.61	Calm.	Calm.	N W by N.	—	Cl'd from 1 to 9 am. Rem. mostly clear
20,	29.696	29.681	29.625	29.654	52.5	62.0	49.1	53.64	.237	.287	.269	.268	.61	.53	.78	.68	Calm.	Calm.	Calm.	—	Cl'd from 4 to 8 pm. Rem. clear.
21,	29.590	29.388	29.364	29.393	50.2	63.0	47.8	54.35	.277	.380	.297	.335	.78	.67	.90	.81	Calm.	E.	Calm.	not ap	Cl'r 0 to 5 am. Rem cl'd. R'n from 7 pm
22,	29.287	29.373	29.494	29.423	60.1	66.7	57.2	59.28	.469	.494	.426	.432	.92	.77	.93	.87	S S. W.	S.	Calm.	0.185	Clouded. Rain om 0 to 1h 30m am
23,	29.634	29.609	—	—	59.2	60.8	—	—	.376	.414	—	—	.76	.80	—	—	Calm.	Calm.	—	—	Clouded.
24,	29.559	29.501	29.503	29.515	56 9	62.8	55.4	56.47	.430	.500	.403	.417	.95	.89	.94	.92	Calm.	W. S. W.	Calm.	0.250	Clouded. R'ng from 4 am till noon
25,	29.481	29.348	29.396	29.443	53.3	62.7	56.6	54.17	.370	.436	.398	.354	.93	.78	.88	.81	S. E.	E.	NW by W	0.280	Partly clear from 0 am to 2 pm. Rem. cl'd. Slight rain at 4 & 6 pm.
26,	29.713	29.758	29.757	29.759	41.2	56.1	43.5	46.19	.172	.266	.232	.227	.66	.62	.83	.74	W. by N.	S. by E.	Calm.	0.025	Clear and fine.
27,	29.814	29.730	29.744	29.754	50.5	58.2	48.3	51.70	.302	.305	.279	.291	.84	.61	.84	.77	Calm.	E. by S.	Calm.	—	Clear & very fine. Boards white with frost at 5 am.
28,	29.773	29.641	29.682	29.668	53.6	68.5	63.4	62.44	.328	.446	.397	.405	.82	.66	.70	.74	Calm.	E. S. E.	N. N. E.	—	Clouded and partly clear alternately.
29,	29.584	29.462	29.622	29.555	55.3	64.2	55.6	56.75	.350	.488	.317	.368	.82	.84	.81	.80	Calm.	Calm.	N. N. E.	—	Clouded. Thunder & lightning at noon. Showers at 4 & 5 pm.
30,	29.755	29.707	—	—	56.6	58.9	—	—	.299	.306	—	—	.66	.63	—	—	E. by S.	E. by S.	—	0.105	Mostly clear. Fine.
31,	29.544	29.518	29.481	29.498	47.4	43.8	45.8	45.68	.292	.260	.287	.282	.90	.92	.94	.93	E. N. E.	E. N. E.	E. by N.	0.465	Clouded. Drizzling rain all day.
Mean	29.616	29.566	29.580	29.584	50.94	60.21	50.74	53.49	.287	.328	.289	.298	.76	.63	.77	.72				2.040	

Highest Barometer, 29.970 at 10 a.m. on 5th.
Lowest do. 29.099 at 5 a.m. on 7th. } Range 0.881
Highest Temperature, 72°.1 on 28th, 1 pm
Lowest do. .. 32°.1 on 5th, 5 a.m. } Range 40.0
Mean Daily Range, .. 17°.25
Extreme Daily Range, 28°.3 on 25th, from am. to pm.
Greatest Day's Wind, 31st, Mean Pressure, 1.58 lbs.

Proportion of Wind from each Quarter--

N.W.	53	Total.	
S.W.	47	Winds,	321
S.E.	119	Calms,	303
N.E.	102		
		Obser.,	624

Year.	Temperature for May. Mean.	Max.	Min.	Range.	Rain. No. Days.	Inches.	Wind. Winds.	Calms	Mean force.	Days Snow.
1840, ...	51.2°	76.4°	31.2°	45.2°	9	4.150				0
1841, ...	51.1	78.0	26.5	51.5	11	2.350	203	109	0.35	1
1842, ...	49.8	74.2	27.3	46.9	7	1.275	216	96	0.53	0
1843, ...	49.73	79.8	29.2	50.6	5	1.570	407	241	0.52	0
1844, ...	54.22	73.4	28.7	49.7	14	5.670	381	263	0.30	0
1845, ...	50.23	77.8	27.8	50.0	8	2.300	434	211	0.55	0
1846, ...	55.77	79.7	33.1	46.6	9	4.375	271	353	0.46	0
1847, ...	54.55	72.1	32.1	40.0	13	2.040	221	303	0.29	0

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 is 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 for the last 24 hours, is noted at 9, a.m.
The Observations entered at 7 a.m., on Sundays, are actually taken at 9 a.m. The two Observations taken on Sundays are not included in any of the means.