MONTHLY METEOROLOGICAL REGISTER AT H. M. MAGNETICAL OBSERVATORY, TORONTO, C. W.—JUNE, 1846.

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

Day.	Barometer at Temp. of 32°. 7 A.M.	3 P.M.	10 P.M.	Mean.	Temperature of the Air. 7 A.M.	3 P.M.	10 P.M.	Mean	Tension of Vapour. 7 A.M.	3 P.M.	10 P.M.	Mean	Humidity of the Air. 7 A.M.	3 P.M.	10 P.M.	Mean	Wind. 7 A.M.	3 P.M.	10 P.M.	Rain in inch on surf.	Weather.
1,	29.492	29.390	29.339	29.3847	65.0°	69.4°	64.0°	65.36	.529	.601	.525	.546	.88	.87	.90	.90	E.	E.	Calm.	—	Mur. Pt 0 & 1 am. Th. 9 to 10 am. Cl'd.
2,	29.370	29.357	29.463	29.4221	64.0	66.4	56.1	60.29	.535	.524	.376	.455	.92	.83	.85	.88	Calm.	S. by W.	Calm.	0.180	M'tly cl'd. R'ng fr. 9 h 45 m am to noon
3,	29.531	29.433	29.409	29.4513	60.2	69.4	61.3	63.31	.446	.499	.489	.475	.87	.72	.92	.84	Calm.	S.S.W.	Calm.	0.110	M'tly cl'd. Thun. 9 to 10 am, also from 9 to 11 pm.
4,	29.428	29.313	29.323	29.3411	64.7	60.8	59.9	61.79	.550	.462	.494	.487	.93	.89	.98	.90	E. by S.	E. by S.	Calm.	0.250	Clouded. Oc. th., P'tning, & r'n all day.
5,	29.325	29.342	29.415	29.3810	55.9	61.4	50.2	53.00	.356	.463	.276	.339	.81	.87	.78	.84	N. by W.	S.S.W.	N.W.byN.	0.345	Cl'd. Slight rain from 7 to 11 h 45 m am
6,	29.486	29.592	29.687	29.6507	49.3	56.7	43.1	51.64	.272	.288	.236	.268	.78	.64	.86	.72	N. W.	N.W.by N	Calm.	0.080	Detach. cl'ds. Sl. r'n at 12h 45m to 1 pm
7,	29.773	29.747	—	—	54.9	62.5	—	—	.325	.363	—	—	.77	.66	—	—	S. S. W.	N. by E.	——	not ap	Cloudy all day.
8,	29.952	29.955	29.982	29.9722	55.4	66.7	49.4	56.47	.274	.381	.285	.227	.64	.60	.82	.72	Calm.	S. E. by S.	N.E.	—	Mostly clear. Hazy. Fine.
9,	30.037	29.951	29.836	29.9169	56.1	69.4	50.3	58.73	.307	.449	.292	.346	.70	.64	.81	.71	Calm.	S. E. by S.	Calm.	—	Clear and unclouded. Very fine.
10,	29.782	29.605	29.551	29.6124	58.7	75 1	60.5	63.98	.357	.581	.411	.442	.74	.68	.81	.76	Calm.	S. by W.	Calm.	—	Unclouded to 4 pm. Rem. overc't, Fine
11,	29.563	29.585	29.694	29.6561	63.6	66.5	62.8	60.52	.421	.493	.349	.399	.73	.77	.89	.75	N.E.by N.	E. by S.	E. by N.	—	Halo round moon 0 am. Clouded all day
12,	29.867	29.899	29.885	29.8815	54.7	61.3	52.5	57.52	.248	.319	.283	.310	.59	.60	.73	.67	N. E.	E.	Calm.	—	Clear and unclouded. Very fine.
13,	29.873	29.818	29.751	29.7466	62.8	64.3	54.8	60.80	.413	.434	.368	.409	.74	.74	.88	.79	E. by N.	E.N.E.	Calm.	—	Overcast, with light haze.
14,	29.693	29.619	—	—	65.5	72.4	—	—	.464	.607	—	—	.76	.78	—	—	Calm.	S. S. E.	——	—	Detached clouds generally.
15,	29.558	29.507	29.550	29.5462	63.7	75.0	66.0	69.18	.483	.535	.404	.489	.85	.63	.65	.70	Calm.	S.S.W.	N. N. W.	—	Mostly clouded.
16,	29.643	29.637	29.616	29.6311	63.4	70.4	56.8	62.72	.417	.488	.396	.433	.73	.68	.88	.78	N. by E.	S. E.	Calm.	—	Cl'd to 8 am. Rem. uncl'd but hazy.
17,	29.649	29.603	29.592	29.6062	62.4	76.8	60.9	67.00	.426	.623	.472	.515	.77	.69	.90	.80	Calm.	S. by E.	Calm.	—	Clear to 4 pm. Rem. mostly clouded.
18,	29.576	29.465	29.422	29.4490	63.5	70.8	68.0	69.56	.535	.645	.605	.637	.94	.88	.91	.90	Calm.	Calm.	W. N. W.	0.015	L'tning 1 & 2 am. Sl't rain 6 am. Heavy thunderstorm from 9 to 11 pm.
19,	29.335	29.241	29.302	29.3025	69.0	80.7	66.5	69.82	.653	.496	.524	.552	.95	.49	.83	.79	Calm.	W. N. W.	N.N.W.	0.765	Dist. th. m't of day. Sl. r'n 10 to 11 am.
20,	29.376	29.469	29.498	29.5039	59.8	59.8	54.4	56.64	.401	.360	.338	.349	.80	.71	.81	.77	N. N. W.	N.W.byN.	N.W.byN.	0.060	Densely overcast all day.
21,	29.512	29.530	—	—	56.2	58.2	—	—	.315	.289	—	—	.78	.61	—	—	N. W.	N. N. W.	——	—	Clouded. Showery all forenoon.
22,	29.681	29.708	29.795	29.7435	55.9	68 4	57.7	60.33	.314	.272	.372	.317	.71	.40	.80	.63	N.W.	N. by W.	Calm.	0.115	Generally clouded. Clear intervals.
23,	29.836	29.756	29.779	29.7818	62.7	75.3	64.0	67.11	.329	.342	.262	.314	.59	.40	.45	.49	N. N. W.	N. W.	N.N.W.	—	Mostly clear. Hazy.
24,	29.818	29.755	29.731	29.7540	64 8	77.8	64 8	70.24	.419	.428	.331	.332	.70	.47	.55	.47	Calm.	W. N. W.	Calm.	—	Unclouded. Hazy. Fine.
25,	29.730	29.643	29.608	29.6384	68.8	80.0	67.6	72.72	.317	.552	.361	.411	.46	.55	.55	.53	Calm.	S. by W.	Calm.	—	Uncl'd to 3 pm. Rem. partially clouded
26,	29.598	29.511	29.495	29.5207	65.3	80.7	68.2	70.34	.402	.505	.528	.495	.67	.49	.79	.69	Calm.	W.	Calm.	—	Clouded all day. Air very close.
27,	29.515	29.502	29.512	29.5113	68.3	68.9	64.0	67.23	.572	.484	.510	.524	.85	.71	.88	.81	W.N.W.	E. N. E.	Calm.	—	Overcast. Hazy. Air very close.
28,	29.544	29.510	—	—	67.4	76.6	—	—	.586	.598	—	—	.90	.67	—	—	E. by N.	E.	——	—	Mostly clouded. Slight spitting rain.
29,	29.553	29.509	29.511	29.5254	65.2	75.7	65.9	69.98	.581	.632	.543	.588	.96	.73	.87	.83	E.N.E.	E. by N.	Calm.	not ap	Mostly clear. Light passing clouds.
30,	29.522	29.511	29.504	29.5114	72.6	78.8	71.0	73.05	.608	.572	.537	.583	.78	.60	.73	.74	E.N.E.	E. by S.	E. by N.	—	Mostly cl'r. A few detached cl'ds. Fine
Mean	29.6191	29.5791	29.5865	29.5939	62.15	70.25	59.63	63.82	.429	.478	.407	.436	.77	.66	.80	.75				1.920	Yellow matter fell with the rain on the 1st, 9 am; 18th, 10 pm; and 19th, 10 am

Highest Barometer, 30.045 at 6 a.m. on 9th. Lowest do. 29.241 at 3 p.m. on 19th. } Range 0.804
Highest Temperature, 84°.2 on 25th, p.m. Lowest do. .. 39°.1 on 7th, a.m. } Range 45.1
Mean Daily Range, .. 18°.46
Extreme Daily Range, 27° .9 on 9th am to pm, & 17th am to pm.

Proportion of Wind from each Quarter--

N.W.	159	Total,	
S.W.	49	Winds,	379
S.E.	89	Calms,	245
N.E.	82		
		Obser.,	624

Mean force, 0.62 lbs; Max. force, 45 lbs, at 9h 55m p.m. on the 18th.

Temperature for June. Year.	Mean.	Max.	Min.	Range.	Rain. No. Days.	Inches.	Wind. No. Winds.	Calms	Mean force lbs.
1840, ...	60.3°	79.9°	36.7°	43.2°	11	4.860			
1841, ...	66.0	93.1	45.3	47.8	9	1.560	194	118	0.36
1842, ...	66.4	76.0	28.1	47.9	15	5.755	196	116	.31
1843, ...	58.94	83.3	28.2	55.1	12	4.595	325	300	.27
1844, ...	60.41	83.3	33.2	50.1	9	3.535	287	313	.19
1845, ...	61.32	84.6	39.6	45.0	11	3.715	328	272	.27
1846, ...	63.82	81.2	39.1	45.1	11	1.920	379	245	.32

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 or Snow received each 24 hours, is noted at 9, a.m., and is marked in inches on the surface.
The Observations entered in the column for 7, a.m., on Sundays, is actually taken at 9, a.m. The two Observations taken on Sundays are not included in any of the means.