

(For the Brit. Amer. Journ. of Med. and Phys. Science.)
MONTHLY METEOROLOGICAL REGISTER AT H.M. MAGNETICAL OBSERVATORY, TORONTO, C. W.—JULY, 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 on sun.	WEATHER.
	7 A.M.	3 P.M.	10 P.M.	Mean of 24 h.	7 A.M.	3 P.M.	10 P.M.	Mean of 24 h.	7 A.M.	3 P.M.	10 P.M.	Mean of 24 h.	7 A.M.	3 P.M.	10 P.M.		
1,	29.745	29.737	29.753	29.745	60.8°	75.1°	58.8°	65.7	331.439	336	395	.64	N. N. E.	E. S. E.	E. by S.		
2,	29.795	29.763	29.746	29.770	63.5	80.4	63.6	67.7	.412.563	420	.475	.72	Calm.	Calm.	E. by S.		
3,	29.797	29.740	29.709	29.737	67.6	80.7	59.8	69.5	.479.578	409	.507	.81	Calm.	Calm.	Calm.		
4,	29.758	29.698			76.4	79.2			.438.580			.60	N. by W.	S. S. W.	do.		
5,	29.743	29.679	29.710	29.712	67.3	80.4	67.0	71.8	.549.635	559	.566	.86	Calm.	Calm.	do.		
6,	29.737	29.730	29.735	29.735	67.4	76.3	63.4	68.8	.473.716	523	.573	.83	Calm.	Calm.	do.		
7,	29.762	29.701	29.674	29.697	67.5	80.6	65.1	71.2	.527.689	544	.587	.91	Calm.	Calm.	do.		
8,	29.661	29.621	29.598	29.632	70.8	77.6	70.2	73.3	.625.675	541	.618	.85	Calm.	E.	do.		
9,	29.661	29.592	29.589	29.603	72.2	79.1	70.2	73.8	.610.665	544	.603	.79	Calm.	E. by S.	do.		
10,	29.565	29.527	29.537	29.537	69.6	80.1	71.9	76.6	.577.597	557	.581	.83	Calm.	E. by N.	do.		
11,	29.558	29.517			75.2	78.4			.689.653			.81	E.	E. by N.	do.		
12,	29.553	29.518	29.505	29.525	74.4	81.6	68.8	74.0	.666.771	600	.660	.81	E.	S.	do.		
13,	29.526	29.506	29.624	29.572	75.2	77.4	62.0	70.0	.625.565	595	.493	.73	WNW	N. by W.	do.		
14,	29.689	29.663	29.594	29.631	61.2	71.2	56.3	62.4	.329.370	344	.360	.62	N. by W.	S. by W.	do.		
15,	29.607	29.530	29.513	29.559	58.4	76.4	63.0	67.3	.408.582	571	.515	.86	Calm.	S.	do.		
16,	29.612	29.574	29.596	29.595	70.3	81.6	68.4	73.2	.560.630	583	.602	.78	Calm.	S. by W. 2.0	do.		
17,	29.615	29.610	29.671	29.630	71.1	75.0	73.2	74.7	.625.731	743	.702	.85	Calm.	S. W. 3.0	do.		
18,	29.696	29.648			71.4	82.4			.746.812			.95	E. S. E.	S. E.	do.		
19,	29.682	29.588	29.578	29.607	77.0	84.6	71.2	76.9	.746.791	587	.699	.83	Calm.	S. S. W.	do.		
20,	29.607	29.545	29.551	29.561	75.4	80.2	70.3	73.4	.702.801	681	.705	.83	Calm.	S. S. W.	do.		
21,	29.594	29.415	29.440	29.462	71.7	78.6	67.4	72.4	.716.721	569	.654	.95	Calm.	S. W. by S.	do.		
22,	29.526	29.605	29.746	29.666	69.9	78.4	60.4	66.7	.565.459	381	.431	.80	N. by W.	N. W. W.	do.		
23,	29.871	29.853	29.841	29.846	59.0	72.4	57.4	63.4	.403.493	410	.444	.83	Calm.	S. by E.	do.		
24,	29.894	29.733	29.630	29.644	62.5	69.6	65.8	66.0	.481.583	526	.528	.87	Calm.	E. by S.	do.		
25,	29.439	29.398			75.9	75.7			.751.758			.87	S. by W.	S. W. by S.	do.		
26,	29.469	29.623	29.719	29.642	56.0	61.4	48.4	54.0	.393.291	269	.292	.89	N.	N.	do.		
27,	29.797	29.799	29.778	29.792	54.6	63.0	50.8	55.8	.287.347	321	.324	.68	N. by E.	S. S. E.	do.		
28,	29.761	29.670	29.664	29.664	56.6	64.8	52.8	58.1	.335.355	331	.345	.75	Calm.	E. by S.	do.		
29,	29.574	29.442	29.417	29.465	61.8	68.7	62.6	63.9	.440.557	509	.463	.82	E. by S.	Calm.	do.		
30,	29.486	29.462	29.467	29.470	59.2	65.0	57.6	59.1	.435.510	435	.435	.85	Calm.	S. E. by S.	do.		
31,	29.496	29.477	29.534	29.545	59.8	68.4	55.8	60.7	.442.456	399	.414	.87	Calm.	S. W.	do.		
Mean	29.656	29.619	29.625	29.631	65.96	75.06	63.23	67.62	509.577	485	517	.80	.67	.84	.77		

Temperature for July.	Rain.			Winds.	Calms.	Mean for 67.
	Mean.	Max.	Min.			
Mean.	66.3°	82.3°	47.0°	6	6.270	184
Max.	65.6	91.0	39.9	10	3.160	338
Min.	61.7	59.0	42.5	4	3.069	276
Total.	61.58	56.8	38.7	8	2.809	358
Winds.	66.08	56.6	40.1	12	2.816	269
Calms.	66.74	55.0	46.7	6	2.849	279
Obs.	66.52	54.6	44.5	6	2.885	279
Mean force of the Wind, 0.19 lbs. ; Max. 1.00 lbs. ; Min. force on 17th, at 3 p.m., 5.00 lbs. per square foot.	67.62	57.0	43.2	8	3.365	301
Mean force on 17th, at 3 p.m., 5.00 lbs. per square foot.	67.62	57.0	43.2	8	3.365	301

Under the head of Tension of Vapour, is given the elastic force of the Aqueous Vapour in the Atmosphere at each Observation, in the decimals of an inch of Mercury, or the proportion of the Barometrical 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 100. The quantity of Rain received for the last 24 hours is noted. 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.