

MONTHLY METEOROLOGICAL REGISTER AT H. M. MAGNETICAL OBSERVATORY, TORONTO, C. W.—DECEMBER, 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.			Snow.	WEATHER.		
	7 A.M.	3 P.M.	10 P.M.	7 A.M.	3 P.M.	10 P.M.	7 A.M.	3 P.M.	10 P.M.	7 A.M.	3 P.M.	10 P.M.	7 A.M.	3 P.M.	10 P.M.				
1,	29.755	29.530	29.579	29.613	0.990	0.966	0.776	0.851	18.8	22.1	16.2	18.7	85	79	79	80	1.2	Slight snow from 3 a.m. to 4 p.m.	
2,	29.755	29.826	29.913	29.688	0.950	0.880	0.225	0.092	9.4	17.4	0.8	8.2	70	82	81	86	0.5	Cl'd am. Cl'te from 6 pm. to midn	
3,	29.962	29.868	29.743	29.811	0.481	0.450	1.110	0.951	10.2	19.1	23.4	20.3	64	75	85	78	0.2	Cl'te am. Slight sn. 9 am. to 3 pm.	
4,	29.536	29.421	29.326	29.383	1.229	1.148	1.130	1.132	26.9	29.2	25.2	26.1	87	92	93	92	0.5	Slight sn. till noon. Rem't cl'nd.	
5,	29.366	29.731	29.609	29.609	0.885	0.922	1.104	1.021	21.4	24.8	21.1	22.8	71	67	89	89	0.1	Part. cl'nd. Part. of sn. occasionally	
6,	29.915	29.945	30.085	29.932	0.924	1.108	0.993	1.07	21.7	26.2	20.0	23.6	78	74	82	82	0.1	Partially cl'nd.	
7,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Partially cl'nd.
8,	29.669	29.481	29.402	29.475	1.229	1.168	1.144	1.149	24.6	32.0	29.6	29.0	92	94	89	83	0.2	Cl'nd. all day. Slight sn. 6 to 10 am.	
9,	29.317	29.234	29.272	29.310	1.444	1.533	1.140	1.189	30.3	32.6	29.6	28.6	84	83	85	87	0.75	Cl'nd. Slight sn. occas'ly.	
10,	29.573	29.581	29.661	29.647	0.776	0.685	0.071	0.065	15.0	17.9	15.1	14.1	83	66	78	73	0.75	Mostly clear. Spt sn. occasionally.	
11,	29.904	30.012	30.088	30.040	0.932	0.922	0.938	0.934	3.6	9.0	6.4	5.9	57	74	61	55	—	Generally clear. Spt sn. occasionally.	
12,	30.188	30.181	30.152	30.168	0.19	0.925	0.883	0.723	1.6	19.8	19.1	15.0	42	85	78	74	—	Generally clear.	
13,	30.041	29.880	29.720	29.800	0.689	1.155	1.149	1.142	13.2	20.3	32.3	29.3	82	91	81	85	—	Generally clear.	
14,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Am. clear. P.m. mostly cl'nd.
15,	29.518	29.458	29.577	29.537	1.170	1.136	1.118	1.140	31.1	31.4	27.2	29.1	98	77	79	87	—	Cl'nd, slight rain noon to 1 p.m.	
16,	29.668	29.672	29.708	29.666	1.03	1.156	1.140	1.134	21.9	34.4	28.1	28.2	85	78	90	85	—	Genly cl'nd am. Cl'te from 6 pm.	
17,	29.599	29.403	29.350	29.431	1.148	1.168	1.183	1.167	29.8	37.0	36.0	34.6	79	77	87	84	—	Clear am. Light clouds p.m.	
18,	29.374	29.313	29.217	29.236	1.35	1.41	1.62	1.158	32.8	34.6	31.3	28.2	72	70	93	70	—	Genly cl'nd. Slight rain 5 pm.	
19,	29.385	29.435	29.583	29.500	0.41	0.685	0.047	0.048	7.1	12.0	10.3	10.0	62	72	63	63	—	Genly cl'nd. Spt sn. 10, 11 pm.	
20,	29.694	29.667	29.651	29.657	0.45	0.661	0.040	0.057	8.6	15.3	10.0	11.7	65	65	53	53	—	Genly cl'nd. Spt sn. 7, 8 am. & 11, 12 pm.	
21,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Overcast. Haze. Spt sn. 4 pm. to midn
22,	29.606	29.653	29.780	29.710	0.655	0.688	0.064	0.069	10.6	30.2	12.8	14.2	74	78	76	78	—	Generally overcast.	
23,	29.856	29.890	29.955	29.853	0.67	1.113	1.103	0.995	15.8	24.4	20.2	20.6	72	84	91	82	—	Partially clear am. Cl'nd p.m.	
24,	29.947	29.912	29.864	29.912	0.84	1.122	1.114	1.021	18.7	27.6	25.1	21.6	80	80	82	83	—	Density cl'nd all day.	
25,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Density cl'nd all day.
26,	29.974	30.003	29.988	29.985	0.70	0.922	0.069	0.069	15.3	21.6	14.4	14.9	77	77	79	75	—	Snowing am. Cl'nd p.m.	
27,	29.856	29.578	29.566	29.598	0.77	1.112	1.119	1.124	15.9	28.6	28.2	26.7	81	71	76	82	—	Mostly clear all day.	
28,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Clear am. Genly cl'nd, p.m.
29,	29.426	29.388	29.486	29.487	1.183	1.185	1.166	1.161	32.8	35.6	32.9	33.4	98	89	89	86	—	Cl'nd all day.	
30,	29.571	29.680	29.823	29.743	1.26	1.135	0.099	1.05	27.6	27.0	22.7	23.1	82	90	79	81	—	Density overcast all day.	
31,	29.988	29.968	29.857	29.912	—	—	—	—	9.8	23.7	25.8	21.7	—	—	—	—	—	—	Overcast. Spt particles of snow.
Mean	29.709	29.673	29.694	29.680	0.990	1.115	1.103	1.021	18.1	25.1	21.6	21.5	77	79	80	80	—	—	Cl'te till 8 a.m., rem't mostly cl'd.

Highest Barometer, .. .. . 30.215 at 10 a.m. of 12th.  
 Lowest do. .. .. . 29.217 at 10 p.m. of 18th.  
 Highest Temperature, .. . 39° 7' on 14th, p.m.  
 Lowest do. .. .. . 2° 4' on 12th, a.m.  
 Mean Daily Range, .. . 13° 8'  
 Extreme Daily Range, .. . 28° 7' on 18th, p.m.—19th, a.m.

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 100.  
 The Instruments are Standard Instruments. The Rain Gauge 27 cts 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.

\* Melted Snow received in Rain Gauge.  
 Proportion of Wind from each Quarter—  
 N.W. .. .. . 173  
 N.W. .. .. . 152  
 S.W. .. .. . 65  
 E.E. .. .. . 61  
 N.E. .. .. . 183