

IV. Paper on Meteorology.

1. ABSTRACT OF MONTHLY METEOROLOGICAL RESULTS, compiled from the Returns of the daily observations at ten Grammar School Stations for MARCH, 1867.

OBSERVERS.—Barrie—Rev. W. F. Checkley, B.A.; Belleville—A. Burdon, Esq.; Cornwall—W. Taylor Briggs, Esq.; Goderich—John Haldan, Jr., Esq.; Hamilton—A. Macallum, Esq., M.A.; Pembroke—Alfred McClatchie, Esq., B.A.; Peterborough—Ivan O'Brien, Esq.; Simcoe—Rev. J. G. Mulholland, M.A.; Stratford—C. J. Macgregor, Esq., M.A.; Windsor—A. McSweeney, Esq., M.A.

STATION.	North Latitude, ϕ	West Longitude, λ	Barometer at temperature of 32° Fahrenheit.				Temperature of the Air.				Tension of Vapour.			
			MONTHLY MEANS.		RANGE.	Greatest in Month.	MONTHLY MEANS.		DAILY RANGE.	HIGHEST.	WARMEST DAY.		COLDTEST DAY.	
			7 A.M.	9 P.M.			7 A.M.	9 P.M.			Mean.	Date.	Mean.	Date.
Barrie	44.25	79.45	29.779	29.120	29.123	29.525	29.779	29.120	29.123	29.525	30.392	14	29.104	121
Belleville	44.10	77.25	29.683	29.657	29.650	29.671	29.683	29.657	29.650	29.671	30.392	14	29.104	121
Cornwall	45.0	74.50	29.683	29.657	29.650	29.671	29.683	29.657	29.650	29.671	30.392	14	29.104	121
Goderich	43.45	81.42	29.715	29.714	29.721	29.716	29.715	29.714	29.721	29.716	30.392	14	29.104	121
Hamilton	43.12	79.50	29.683	29.657	29.650	29.671	29.683	29.657	29.650	29.671	30.392	14	29.104	121
Pembroke	45.80	77.10	29.683	29.657	29.650	29.671	29.683	29.657	29.650	29.671	30.392	14	29.104	121
Peterboro	44.20	78.25	29.683	29.657	29.650	29.671	29.683	29.657	29.650	29.671	30.392	14	29.104	121
Simcoe	42.51	80.14	29.683	29.657	29.650	29.671	29.683	29.657	29.650	29.671	30.392	14	29.104	121
Stratford	43.25	80.58	29.683	29.657	29.650	29.671	29.683	29.657	29.650	29.671	30.392	14	29.104	121
Windsor	42.20	83.00	29.683	29.657	29.650	29.671	29.683	29.657	29.650	29.671	30.392	14	29.104	121

Barrie—On 1st, blew very heavily at night—heavy rain—fall of barometer .588 from previous night. 7th, bright aurora. 17th, (Sunday), an unusually severe snow storm in afternoon, nearly over by 7 p.m., depth of fall, 10 inches. Storms of wind on 2nd at night, and 13th in afternoon. Rain on 1st and 6th. Snow on 2nd, 7th, 12th, 13th, 14th, 16th, 17th, 21st, 22nd.

Belleville—Storm of wind on 2nd. Rain on 1st, 10th, 11th, 24th, 25th. Snow on 7th, 9th, 12th, 13th, 16th, 17th, 27th.

Cornwall—Hail and rain on 1st. Storm of wind on 18th; very clearly defined lunar halo on same evening. Fogs, 6th, 16th, 20th. Snow, 3rd, 4th, 7th, 9th, 11th and 12th, 16th and 17th. Rain, 10th and 24th.

Goderich—On 1st, three or four peals of thunder south at 4 p.m. 6th, crows seen. 14th, pigeons flying. 15th, lunar halo 9.30 p.m. 17th and 18th, flocks of ducks. 28th, solar halo 1.30 p.m. Snow on 2nd, 3rd (Sunday), 21st, 22nd, 24th.

Hamilton—On 4th, coleoptera coccinella (lady bird) first seen this spring. 9th, arachnida (spider) first observed weaving and descending. 26th, fringilla melodia (song sparrow) first seen on the mountain, their usual time of arrival being 13th March. 31st, Crows first seen and heard. 7th, Aurora observed at 7.30 p.m., double arch, lesser about 20° in length, 10° high, larger 120° long, 20° high, bright streamers moving from NW towards E, and rising higher as they proceeded, highest being 50° in altitude at 10 p.m.; at that hour there

THE MARCH.

was but one arch and the streamers were more detached than previously; "when the aurora is low it indicates calm weather, when high, stormy, according to the excellent observers and interpreters of signs, the voyagers in the north west." (Vide Professor Hind's Expeditions, Vol. II. p. 6. 16th, Snow at 3.15 p.m. flakes fine, wind E 4; at 4.20 p.m. flakes large; at 5.30 p.m. flakes fine again, while temperature (25°) and velocity of wind continued about the same. 21st, at 10.10 a.m. began the greatest snow storm of the season, continuing 28 hours till 2 p.m. 22nd; depth, 18 inches, dense, moist and packed. In the storm which began 20th January, the depth was 20 inches, but it was light and did not pack so much; the March storm broke down a number of houses; on 22nd fences and trees on the E and

e 10 denotes that the sky is covered with clouds; 0 denotes that the sky is quite clear of clouds.

* Velocity is estimated, 0 denoting calm or light air; 10 denoting very heavy hurricane.