

VI. Monthly Report on Meteorology of the Province of Ontario.

1. ABSTRACT OF MONTHLY METEOROLOGICAL RESULTS, compiled from the Returns of the ten High School Stations, for July, 1871.

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STATION.	Eleva- tion. a	BAROMETER AT TEMPERATURE OF 32° FAHRENHEIT.				TEMPERATURE OF THE AIR.										TENSION OF VAPOUR.	
		MONTHLY MEANS.		HIGHEST.	LOWEST.	RANGE.	MONTHLY MEANS.		DAILY RANGE.	HIGHEST.	LOWEST.	WARM- EST DAY.	COLD- EST DAY.	MONTHLY MEANS.	MONTHLY MEANS.		
		1 P.M.	9 P.M.				7 A.M.	9 P.M.									
North Latitude.	West Longitude.	MEAN.		Date.	Date.	Greatest in 24 hours.	Mean Maximum.	Mean Minimum.	Mean Range.	Greatest.	Least.	Date.	Date.	Reading.	Reading.	Mean Temp.	Mean Temp.
°	'	Inches.															
Pembroke.....	45° 56' 10"	29.2360	29.1880	29.2029	29.520	7 a.m. 25.28-872	9 p.m. 6	0.18	440	7-8	338	7-8	338	7-8	338	7-8	338
Cornwall.....	45° 0' 74-50 137	175.39	68.26	29.6318	29.6350	29.6365	29.970	7 a.m. 29.29-379	7 a.m. 29.29-379	7 a.m. 29.29-379	7 a.m. 29.29-379	7 a.m. 29.29-379	7 a.m. 29.29-379	7 a.m. 29.29-379	7 a.m. 29.29-379	7 a.m. 29.29-379	7 a.m. 29.29-379
Barrie.....	44° 25' 79-45	779.28	4510	28.3111	28.4801	28.4187	28.755	7 a.m. 24.28-084	1 p.m. 18	671	394	6-7	394	6-7	394	6-7	394
Peterborough.....	44° 20' 78-25	629.28	2310	29.1968	29.2167	29.2154	29.492	7 a.m. 25.25-924	1 p.m. 6	568	330	6-7	330	6-7	330	6-7	330
Belleville.....	44° 10' 77-52	807.29	6178	29.6888	29.6063	29.6018	29.873	7 a.m. 25.29-337	1 p.m. 18	541	308	7-8	308	7-8	308	7-8	308
Goderich.....	43° 45' 81-42	715.29	1833	29.1818	29.1759	29.1804	29.441	7 a.m. 24.28-720	7 a.m. 24.28-720	7 a.m. 24.28-720	7 a.m. 24.28-720	7 a.m. 24.28-720	7 a.m. 24.28-720	7 a.m. 24.28-720	7 a.m. 24.28-720	7 a.m. 24.28-720	7 a.m. 24.28-720
Stratford.....	43° 25' 80-53	1182.28	6948	29.6768	29.6912	29.6874	29.956	7 a.m. 24.28-396	7 a.m. 24.28-396	7 a.m. 24.28-396	7 a.m. 24.28-396	7 a.m. 24.28-396	7 a.m. 24.28-396	7 a.m. 24.28-396	7 a.m. 24.28-396	7 a.m. 24.28-396	7 a.m. 24.28-396
Hamilton.....	43° 12' 79-50	324.29	3740	29.6688	29.5667	29.5678	29.867	7 a.m. 24.29-276	7 a.m. 24.29-276	7 a.m. 24.29-276	7 a.m. 24.29-276	7 a.m. 24.29-276	7 a.m. 24.29-276	7 a.m. 24.29-276	7 a.m. 24.29-276	7 a.m. 24.29-276	7 a.m. 24.29-276
Simcoe *.....	42° 51' 80-14 150	716.23	975	28.994	28.9960	28.9768	29.295	1 p.m. 24.28-692	9 p.m. 6	603	314	3-4	314	3-4	314	3-4	314
Windsor.....	42° 21' 83-00	629.29	3360	29.8220	29.3108	29.3383	29.576	7 a.m. 24.29-066	7 a.m. 24.29-066	7 a.m. 24.29-066	7 a.m. 24.29-066	7 a.m. 24.29-066	7 a.m. 24.29-066	7 a.m. 24.29-066	7 a.m. 24.29-066	7 a.m. 24.29-066	7 a.m. 24.29-066

Approximation. d On Lake Simcoe e Near Lake Huron. f On St. Lawrence. g On Lake Huron. h On Lake Ontario. i On the Ottawa River. j Close to Lake Erie. m On the Detroit River. n Inland Towns.

STATION.	HUMIDITY OF AIR.	MONTHLY MEANS.		WINDS. NUMBER OF OBSERVATIONS.		SURFACE CURRENT.		MOTION OF CLOUDS. a		ESTIMATED b VELOCITY OF WIND.		AMOUNT OF CLOUDINESS. c		RAIN.		SNOW.		AURORA S.	
		1 P.M.	9 P.M.	North.	South.	East.	West.	North-East.	South-East.	North-West.	South-West.	1 P.M.	9 P.M.	1 P.M.	9 P.M.	1 P.M.	9 P.M.	1 P.M.	9 P.M.
		MEAN.	MEAN.	North.	South.	East.	West.	North-East.	South-East.	North-West.	South-West.	1 P.M.	9 P.M.	1 P.M.	9 P.M.	1 P.M.	9 P.M.	1 P.M.	9 P.M.
Pembroke.....	85	59	79	74	11	5	8	7	5	8	13	21	73	1	1	1	1	1	1
Cornwall.....	86	94	96	96	10	21	9	11	11	22	25	73	14	7	17	17	17	17	17
Barrie.....	72	49	72	63	10	21	9	11	11	22	25	73	14	7	17	17	17	17	17
Peterborough.....	73	51	75	68	2	4	1	3	4	15	12	20	73	4	1	1	1	1	1
Belleville.....	83	64	81	78	4	2	1	3	4	15	12	20	73	4	1	1	1	1	1
Goderich.....	83	70	80	78	4	2	1	3	4	15	12	20	73	4	1	1	1	1	1
Stratford.....	89	61	89	79	11	5	8	7	5	8	13	21	73	1	1	1	1	1	1
Hamilton.....	89	61	89	79	11	5	8	7	5	8	13	21	73	1	1	1	1	1	1
Simcoe.....	73	64	77	73	7	1	3	4	15	12	20	73	4	1	1	1	1	1	1
Windsor.....	74	56	79	90	6	12	2	3	4	15	12	20	73	4	1	1	1	1	1

a Where the clouds have contrary motions, the higher current is entered here.

Velocity is estimated, 9 denoting calm or light air; 10 denoting very heavy hurricane

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

REMARKS.

Pembroke.—On 1st, solar halo. 13th, lightning, with thunder. 14th, thunder, with rain. 16th, 17th, 18th, 27th, 30th, lightning and thunder, with rain. Wind storm on 2nd. Fogs, 15th, 25th. Rain, 1st, 5th, 6th, 7th, 9th, 12th, 14th, 17th, 18th, 19th, 22nd, 23rd, 27th, 29th, 31st. Month unusually cold, mean temperature being 7° below the average for July during the last six years. Crop of hay average, other crops better than usual.

Cornwall.—On 17th, 31st, thunder, with rain. Rain on 4th, 6th, 12th, 17th, 20th, 22nd, 26th, 31st.

Barrie.—On 7th, high wind. 31st, a beautiful bend of auroral light was seen, stretching across the sky from S.E. to N.W., a very little S. of zenith, slightly waving with motion westward, in the direction of its length. Rain, 4th, 5th, 6th, 10th, 17th, 18th, 21st, 27th, 30th. Month unusually dry.

Peterborough.—On 4th, 6th, 18th, lightning and thunder, with rain. 16th, lightning. 12th, at 10.30 P.M., a sudden