

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

1. ABSTRACT OF MONTHLY METEOROLOGICAL RESULTS, compiled from the Journals of the daily observations at ten Grammar School Stations, for DECEMBER, 1870.

OBSERVERS:—*Pembroke*—James Smith, Esq., M.A.; *Cornwall*—J. L. Bradbury, Esq., M.A.; *Belleville*—Ivan O'Brien, Esq.; *Godrich*—James Preston, Esq., B.A.; *Stratford*—C. J. Macgregor, Esq., M.A.; *Hamilton*—A. acallum, Esq., M.A.; *Simcoe*—James J. Wadsworth, Esq., M.A.; *Windsor*—J. Johnston, Esq., B.A.

BAROMETER AT TEMPERATURE OF 32° FAHRENHEIT.										TEMPERATURE OF THE AIR.										TENSION OF VAPOUR.																					
STATION.	Eleva- tion. a	MONTHLY MEANS.					HIGHEST.		LOWEST.		RANGE.		MONTHLY MEANS.					DAILY RANGE.			HIGHEST.		LOWEST.		WARM- EST DAY.		COLD- EST DAY.		MONTHLY MEANS.												
		7 A.M.	1 P.M.	9 P.M.	MEAN.	INCHES.	HIGHEST.	LOWEST.	MONTHLY.	Greatest in 24 hours.	DATE.	READING.	DATE.	MEAN RANGE.	MEAN MAXIMUM.	MEAN MINIMUM.	MEAN RANGE.	DATE.	READING.	DATE.	MONTHLY RANGE.	DATE.	READING.	DATE.	MEAN TEMP.	DATE.	MEAN TEMP.	DATE.	7 A.M.	1 P.M.	9 P.M.	MEAN.									
Pembroke	45-50 77-10	423	29	2371	29	2144	29	2365	29	726	7 a.m.	10-23-720	7 a.m.	20	1-006	655	1924	15-81	21-00	17-64	18-15	24-51	9-79	14-72	33-8-28	5-0	7	46-0	1	23-0	20	60-0	1	37-73	29	12-50	0-08	0-06			
Cornwall	45-0 74-50 137	175	29	6568	29	6311	29	6478	29	6452	30-150	9 p.m.	10-29-041	9 p.m.	20	1-109	776	1920	19-90	25-99	21-67	22-52	29-46	14-18	16-28	30-6-30	6-2	8	45-0	2	15-7	20	60-7	1	40-03	29	4-66	1-09	1-15	1-19	
Barrie	44-25 79-45 59	77	29	728	29	7247	28	7388	28	7577	29-271	9 p.m.	24-23-061	9 p.m.	30	1-210	898	20-30	29-76	28-44	28-95	33-05	15-97	17-08	42-90	5-2	11	47-9	2	15-9	20	63-8	1	40-10	29	0-77	1-20	1-12	1-22		
Peterborough	44-20 78-25	63	29	174	29	1511	29	1580	29	1634	29-648	9 p.m.	10-28-590	9 p.m.	30	1-058	809	20-10	44-23	03-19	71-31	27-29	33-38	55-45	61-30	10-5	13	44-6	2	24-5	30	69-1	2	37-7	29	7-2	1-05	1-18	1-05	1-09	
Belleville	44-10 77-52 72	30	729	5682	29	5719	29	5808	29	5803	30-085	1 p.m.	10-28-998	1 p.m.	20	1-037	719	10-30	22-38	54-23	29-24	07-31	26-14	22-34	41-13	20-55	13	46-3	2	24-5	30	61-6	1	39-16	29	4-46	1-19	1-24	1-26		
Godrich	43-45 81-42	71	529	1451	29	1297	29	1342	29	1363	29-578	7 a.m.	10-28-468	9 p.m.	30	1-120	779	80-11	27-08	29-28	28-65	35-34	22-73	10-67	24-6-28	6-3	14	45-5	14	3-7	23	41-6	5	41-87	28	10-17	1-33	1-38	1-40	1-37	
Stratford	43-25 80-58	118	228	6243	28	6072	28	6164	28	6160	29-052	7 a.m.	10-27-987	9 p.m.	30	1-065	711	30-11	22-94	26-13	24-70	24-59	20-04	18-11	10-63	21-30	4-2	14	42-1	5	3-6	29	60-7	5	37-43	29	5-53	1-19	1-25	1-26	1-23
Hamilton	43-12 79-50 90	32	429	651	29	5440	29	5466	29	5457	29-960	7 a.m.	10-29-008	9 p.m.	30	0-942	651	29-40	25-6	30-8	26-5	27-69	35-0	18-1	16-93	40-9-30	8-1	9	51-8	29	60-7	5	41-1	29	3-0	1-33	1-38	1-36	1-38		
Simcoe	42-51 80-14 150	71	238	897	28	783	28	832	28	8372	29-428	7 a.m.	10-28-225	1 p.m.	30	1-203	556	29-40	27-14	31-30	27-50	29-31	35-29	22-65	12-64	26-5	7	3-6	31	55-3	29	60-3	5	42-93	28	8-67	1-40	1-35	1-45		
Windsor	42-20 83-00	62	929	3492	29	3160	29	3474	29	3375	29-808	9 p.m.	24-28-621	1 p.m.	30	1-187	687	30-12	24-67	29-67	26-08	26-79	31-65	20-12	11-53	28-9-30	3-2	16	53-9	5	5-0	23	59-9	5	45-07	24	1-90	1-33	1-41	1-34	1-36

Approximation. a On Lake Simcoe e Near Lake Ontario on Bay of Quinte. 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.		WINDS. NUMBER OF OBSERVATIONS.										ESTIMATED δ VELOCITY OF WIND.					AMOUNT OF CLOUDINESS. c					RAIN.				SNOW.				Total Depth of Rain and Melted Snow.					A U R O R A S.					WHEN OBSERVED.																																																																																																																																																																																																																																																																																																																																																																																																			
	MONTHLY MEANS.		SURFACE CURRENT.					MOTION OF CLOUDS. a					MONTHLY MEANS.					MONTHLY MEANS.					MONTHLY MEANS.					MONTHLY MEANS.					MONTHLY MEANS.					MONTHLY MEANS.					MONTHLY MEANS.					MONTHLY MEANS.																																																																																																																																																																																																																																																																																																																																																																																												
	7 A.M.	1 P.M.	9 P.M.	MEAN.	North.	East.	South East.	South.	South West.	West.	North West.	Impercept.	Clear.	Total.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.		3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.	1 P.M.	3 P.M.	MEAN.	7 A.M.

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

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

REMARKS.

Pembroke.—On 16th, lake frozen over. 18th, first crossing on foot. 21st, first crossing of sleighs. Wind storm, 15th. Snow, 3rd, 4th, 6th, 7th, 8th, 10th, 12th—14th, 17th, 18th, 20th, 21st, 25th, 26th, 30th, 31st. Rain, 4th, 13th.

Cornwall.—Snow, 5th, 8th, 12th, 14th, 15th, 17th, 20th, 21st, 26th, 28th, 30th, 31st. Rain, 5th, 6th, 13th.

Belleville.—On 5th, fog. Snow, 8th, 12th, 17th, 20th, 21st, 25th, 26th, 28th, 30th, 31st. Rain, 5th, 6th, 13th.

Godrich.—On 6th, at 9 P.M., large lunar halo. 21st, lake frozen over for several miles from the shore. Snow, 6th, 7th, 8th, 11th—

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