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

1. Abstract of Monthly Meteorological Results, compiled from the Returns of the daily observations at ten High School Stations, for May, 1871.

Observers:—*Pembroke*—James Smith, Esq., M.A.; *Cornwall*—James H. Coyne, Esq., B.A.; *Barrie*—H. B. Spotton, Esq., M.A.; *Peterborough*—Ivan O'Beirne, Esq.; *Belleville*—A. Burdon, Esq.; *Goderich*—James Preston, Esq., B.A.; *Stratford*—C. J. Macgregor, Esq., M.A.; *Hamilton*—A. Macallum, Esq., M.A.; *Simcoe*—James J. Wadsworth, Esq., M.A.; *Windsor*—J. Johnston, Esq., B.A.

Station.	North Latitude. a	West Longtitude. a	Elevation. a: Above the Lake.	Elevation. a: Above the Sea.	Barometer at temperature of 32° Fahrenheit. Monthly Means. 7 A.M.	1 P.M.	9 P.M.	Mean.	Highest. Highest.	Date.	Lowest. Reading.	Date.	Range. Monthly.	Greatest in 24 hours.	Date.	Temperature of the Air. Monthly Means. 7 A.M.	1 P.M.	9 P.M.	Me'n	Mean Maximum.	Mean Minimum.	Mean Range.	Daily Range. Greatest.	Date.	Least.	Date.	Highest. Reading.	Date.	Low'st. Reading.	Date.	Monthly Range.	Warmest Day. Date.	Mean Temp.	Coldest Day. Date.	Mean Temp.	Tension of Vapour. Monthly Means. 7 A.M.	1 P.M.	9 P.M.	Me'n.
	°	°	Ft.		Inches.											°	°	°	°	°	°	°	°		°		°		°		°		°		°				
i Pembroke	45·50	77·10	....	423	29·3315	29·2820	29·2890	29·3008	29·664	7 a.m.	28·935	1 p.m.	·729	·414	24—25	43·06	62·38	53.12	54·50	68·23	42·16	26·07	41·0	25	9·6	8	93·9	30	32·0	18	61·9	29	77·70	13	41·00	·242	·253	.267	·254
f Cornwall	45·0	74·50	137	175	29·7259	29·7008	29·7035	29·7101	30·055	7 a.m.	29·327	9 p.m.	·728	·410	24—25	40·84	62·62	54·32	55·93	64·94	42·48	22·46	42 8	29	7·3	5	88·8	29	31·7	1	57·1	29	77·36	4, 8	43·03	·372	·561	·424	·452
d Barrie	44·25	79·45	59	779	28·65	28·50	28·65	28·60	28·981	9 p.m.	28·180	1 p.m.	·801	·585	22—23	43·97	65·83	51·76	57·1	71·32	40·20	31·12	50·1	18	11·1	4	90·7	30	27·5	8	63·2	30	78·50	4	40·87	·307	·366	·301	·322
k Peterborough	44·20	78·25	....	629	29·3039	29·2519	29·2625	29·2741	29·610	7 a.m.	28·961	1 p.m.	649	·401	17—18	52·90	65·51	52·07	56·83	69·02	39 30	29·72	47·5	25	10·1	5	91·8	30	29·6	18	62·2	30	77·46	4	41·63	·283	·286	·288	·286
e Belleville	44·10	77·52	72	307	29·6722	29·6447	29·632	29·6495	29·983	7 a.m.	29·289	9 p.m.	·694	·438	16—17	51·21	61·62	55·16	55·99	65·36	44·93	20·43	38·4	25	9·4	5	83·3	31	34·7	15	48·6	30	78·13	4	42·50	·281	·332	·336	·316
g Goderich	43·45	81.42	....	715	29·2456	29·2351	29·2287	29·2364	29·508	7 a.m.	28·937	7 a.m.	5	·571	·343	53·16	58·61	53·26	55·01	65·01	42·94	22·07	37·9	18	9·4	4	88·8	29	28·2	9	60·6	29	79·23	8	40·30	·304	·336	·318	·319
k Stratford	43·25	80·58	....	1182	28·7488	28·7199	28·7285	28·7324	29·025	7 a.m.	28·436	7 a.m.	5	·589	·340	50·48	62·38	52·77	55·21	65·60	42·43	23·17	35·6	25	5·0	4	84·6	31	28·0	9	56·6	29	73·93	8	40·37	·287	·318	·297	·301
h Hamilton	43 12	79·50	90	324	29·6258	29·6017	29·6043	29·6105	29·904	7 a.m.	29·313	1 p.m.	16	·591	·302	54·8	65·2	51·9	57·3	70·02	40·00	30·02	55·5	30	9·6	4	95·8	30	29·5	9	66·3	29	80·9	4	41·2	·371	·353	·341	·355
l Simcoe *	42·51	80·14	150	716	28·786	28·758	28·774	28·7728	29·063	7 a.m.	28·459	1 p.m.	5	·604	.....	.....	66·11	55·45	58·39	69·30	45·88	23·42	37·8	13	9·4	26	88·5	29	29·7	9	58·8	30	79·13	8	42·83	·334	·418	·375	·376
m Windsor	42·20	83·00	....	620	29·3824	29·3557	29·3658	29·3680	29·627	7 a.m.	29·062	1 p.m.	4	·565	·370	56·02	67·95	54·67	59·55	70·22	46·19	24·02	41·4	25	6·7	3	93·2	29	32·5	8	60·7	29	80·63	6	45·83	·369	·352	·323	·348

Approximation. *d* 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. *l* Close to Lake Erie. *m* On the Detroit River. *k* Inland Towns.

Station.	Humidity of Air. Monthly Means. 7 A.M.	1 P.M.	9 P.M.	Mean.	Winds. Number of Observations. Surface Current. North.	North-East.	East.	South-East.	South.	South-West.	West.	North-West.	Calm.	Total.	Motion of Clouds. a North.	North-East.	East.	South-East.	South.	South-West.	West.	North-West.	Impercept.	Clear.	Total.	Estimated b Velocity of Wind. Monthly Means. 7 A.M.	1 P.M.	9 P.M.	Mean.	Amount of Cloudiness. c Monthly Means. 7 A.M.	1 P.M.	9 P.M.	Mean.	Rain. No. of Rainy Days.	Duration in hours.	Depth in inches.	Snow. No. of Snowy Days.	Duration in hours.	Depth in inches.	Total Depth of Rain and Melted Snow.	Auroras. Class I.	Class II.	Class III.	Class IV.	Sky unfavorable, obs. doubtful.	Sky unfavorable, obs. impossible.	Sky favorable, none seen.	When Observed.
Pembroke	65	43	62	57	31	7	5	3	..	6	14	15	..	81	7	..	..	..	..	..	16	3	47	8	81	1·4	2·1	1·2	1·57	6·1	6·6	4·9	5·9	10	31·30	1·0916	3	.....	.....	1·0916	..	..	2	3	1	12	9	12th, 13th, III; 6th, 21st, 26th, IV.
Cornwall	95	93	94	94	..	6	..	9	..	3	2	14	20	81	..	1	7	29	..	..	..	2	20	22	81	0·7	1·4	0·8	0·97	4·85	5·0	4·33	4·72	8	.....	2·316	..	.....	.....	2·316	3	..	..	..	7	7	10	8th, 10th, 26th.
Barrie	69	54	73	65	9	3	13	1	..	1	5	21	28	81	3	2	..	1	..	3	2	12	32	26	81	0·3	1·6	0·7	1·0	4·5	5·1	2·3	3·9	6	.....	1·2793	..	.....	.....	1·2793	..	..	..	1	..	6	20	12th.
Peterborough	66	44	70	60	11	8	3	..	6	4	14	5	30	81	6	2	8	..	..	2	21	14	16	16	81	0·74	1·59	0·63	0·99	4·93	5·07	3·26	4·42	6	68·54	1·308	..	.....	.....	1·308	..	..	..	6	1	6	14	8th, 10th, 12th, 13th, 19th, 22nd.
Belleville	70	57	73	67	7	1	16	3	24	8	13	6	3	81	3	4	..	..	1	2	7	..	24	40	81	1·1	1·8	1·2	1·4	3·2	2·6	3·1	2·97	6	25·	1·665	..	.....	.....	1·665	..	..	..	..	1	9	17	
Goderich	71	64	72	69	9	4	6	11	3	15	3	15	15	81	..	..	1	5	1	10	14	13	9	28	81	1·6	2·5	0·9	1·7	5·0	4·5	2·9	4·13	7	35·0	1·0822	..	.....	.....	1·0822	..	..	1	3	....	5	18	22nd, III; 8th, 13th, 19th, IV.
Stratford	72	52	68	64	15	3	12	5	1	12	10	6	17	81	3	1	5	1	..	5	4	2	23	37	81	2·4	3·7	1·4	2·5	3·6	4·5	2·3	3·5	7	47·0	1·6869	..	.....	.....	1·6869	..	1	3	..	....	4	23	8th, II; 13th, 22nd, 26th, III. [IV.
Hamilton	80	57	82	73	..	10	..	..	..	20	3	..	48	81	1	3	..	..	..	21	2	1	19	34	81	0·3	1·0	0·6	0·63	3·9	5·3	2·6	3·9	7	24·0	1·9604	..	.....	.....	1·9604	..	..	..	7	....	5	15	8th, 10th, 12th, 13th, 19th, 22nd, 26th
Simcoe	79	65	80	75	5	4	4	1	..	..	12	5	20	81	..	3	3	..	..	..	4	4	7	60	81	0·7	1·2	0·7	0·87	2·6	2·2	2·7	2·5	4	35·0	1·1231	..	.....	.....	1·1231	..	..	..	3	....	8	16	22nd, 24th, 31st.
Windsor	70	49	70	63	4	16	12	5	10	4	9	2	19	81	2	2	..	1	..	2	8	2	24	40	81	1·2	1·7	0·8	1·2	4·07	4·6	3·4	4·03	6	34·0	1·9031	..	.....	.....	1·9031	..	..	..	..	....	8	19	

a Where the clouds have contrary motions, the higher current is entered here.
Velocity is estimated, 0 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, the first raft towed down the lake. 2nd, the first timber passed the slide on Snake river. 19th, mosquitoes. 20th, slight shock of earthquake at 5 A.M. 21st, severe shock at 1.10 A.M.—lasted two minutes: direction NW–SE, accompanied by a very loud, rushing and rumbling sound, as of loaded waggons passing during a very heavy hurricane. 21st, humming birds. 29th, night hawk seen. Lightning on 20th. Thunder, with rain, 25th, 30th. Lightning, thunder and rain, 28th. Solar halo, 9th and 27th. Brilliant meteor, WH, at 9 P.M. on 29th. Frost, 7th, 10th, 13th, 15th, 17th, 18th. Wind storms, 7th, 13th, 15th, 16th, 17th, 22nd, 26th. Fog, 31st. Snow, 7th, 9th, 17th. Rain, 4th, 5th, 6th, 8th, 16th, 17th, 19th, 26th, 27th, 31st. The month one of severe drought and high winds, which have proved very hurtful to the lumbering interests.

Cornwall,—Lightning with thunder and rain, 23rd, 30th. Wind storms, 3rd, 11th, 25th. Rain, 1st, 5th, 6th, 11th, 16th, 23rd, 30th, 31st.

Barrie.—Lightning with thunder and rain, 25th, 29th. Shock of earthquake very generally felt through the town on 21st, one and two o'clock A.M. Frost, 7th—8th, 12th—13th, 14th—15th. Rain, 4th, 6th, 16th, 22nd, 25th, 29th.

Peterborough.—On 6th, wind went round from E by N to W, to be followed by unsettled weather. 17th, leaves opening on forest trees. 21st, earthquake felt all over the neighborhood about 1 A.M., first a subterranean sound, like a deep rattling, and immediately after