VI. 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 October, 1872.

Observers:—*Pembroke*—R. G. Scott, Esq., M.A.; *Cornwall*—James Smith, Esq., A.M.; *Barrie*—H. B. Spotton, Esq., M.A.; *Peterborough*—J. B. Dixon, Esq., M.A.; *Belleville*—A. Burdon, Esq.; *Goderich*—Hugh J. Strang, Esq., B.A.; *Stratford*—C. J. Macgregor, Esq., M.A.; *Hamilton*—J. M. Buchan, Esq., M.A; *Simcoe*—Dion C. Sullivan, Esq., LL.B.; *Windsor*—J. Johnston, Esq., B.A.

STATION.	North Latitude.a	West Longitude.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.	Mean.	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. A.M.	1 P.M.	9 P.M.	Mean.
	°	°	Ft.		Inches.											°	°	°	°	°	°	°	°		°		°		°		°		°		°				
i Pembroke	45·50	77·10	....	423	29·382	29·363	29·378	29·3742	29·883	7 a.m.	29	28·934	1 p.m.	14	·949	·327	26 –	41 4	49·	42·9	44·43	62·	34·4	27·6	49·9	28	8·1	15	80·0	9	28·4	22	51·6	9	55·10	19	33·50	·257	·344	·273	·291
f Cornwall	45·0	74·50	137	175	29·892	29·8512	29·8619	29·8686	0·419	1 p.m.	29	29·241	1 p.m.	14	1·178	·563	15—16	39·	50·24	43.07	44·10	53·27	35·08	18·19	33·5	21	6·5	26	74·8	6	23·0	29	51·8	22	59·07	28	35·20	·221	·272	·249	·247
d Barrie	44·25	79·45	59	779	28·9324	28·7670	28·9176	28·8723	29·460	7 a.m.	24	28·223	1 p.m.	9	1·237	·612	22—23	41·78	53·37	42·51	45·89	57·77	33·99	23·78	49·1	21	6·1	26	74·1	9	23·5	21	50·6	9	60·23	15	34·83	·237	·280	·243	·253
k Peterboro'	44·20	78·25	....	670	29·3286	29·3235	29·3368	29·3263	29·818	1 p.m.	29	28·841	7 a.m.	14	·977	·590	16—17	37·99	53·88	42·62	44 83	57·89	32·21	25·68	48·1	21	5·8	26	78·0	7	20.7	21	57·3	5	58·33	15	36·30	·221	·330	·244	·265
e Belleville	44·10	77·52	72	307	29·7508	29·7232	29·7344	29·7361	30·237	1 p.m.	29	29·247	1 p.m.	14	·990	·768	16—17	40·18	51·26	44·51	45·31	54·30	36·02	18·28	27·8	9	11·1	16	72·4	6	27·5	20	44·9	5	56·50	11	36·46	·225	·260	·266	·251
g Goderich	43·45	81·42	....	715	29·3193	29·2999	29·2998	29·3063	29·757	7 a.m.	24	28·843	9 p.m.	15	·914	·642	15—16	43·46	50·41	44 53	46·13	53·73	36·11	17·62	31·3	20	8·0	14 26	71·7	5	27.1	20	44.6	5	60·37	11	37·30	·238	·262	·249	·249
k Stratford	43·25	80·58	....	1182	28·8084	28·7824	28·7976	28·7961	29·237	7 a.m.	29	28·338	9 p.m.	15	·899	·631	15—16	40·36	49·71	42·61	44 23	52·39	36·15	16·24	25·8	5	4·0	26	71·3	5	25.5	20	45·8	5	60·17	11	36·03	·224	·257	·238	·240
h Hamilton	43·12	79·50	90	324	29·7006	29·6681	29·6961	29·6882	30·170	7 a.m.	29	29·238†	9 p.m.	15	·932	·665	15—16	43·17	53·35	46·64	47·72	57·47	39·05	18·42	32·9	9	2·1	26	74·0	9	25·2	20	48·8	5 21	60·96	17	39·06	·248	·298	·271	·272
l Simcoe	42·51	80·14	150	716	29·1045	29·0829	29·0905	29·0927	29·516	1 p.m.	28	28·671	9 p.m.	15	·845	.....	.....	41·95	54·15	46·03	47 38	58·29	36·39	21·90	37·0	9	5·5	28	77·0	9	31·0	19	46 0	22	66·8	19	39·0	·246	·310	·281	·279
m Windsor	42·20	83·00	....	630	29·4639	29·4270	29 4286	29·4398	29·836	7 a.m.	29	28·963	9 p.m.	15	·873	·609	15—16	44·97	56·04	48·06	49·69	59·13	40·24	18·89	32·3	5	10·4	25	82·5	5	29·1	15	53·4	5	69·20	14	37·73	·244	·261	·273	·259

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.	Imperceptible.	Clear.	Total.	Estimated b Velocity of Wind. Monthly Means. 7 A.M.	1 P.M.	9 P.M.	Mean.	Amount of Cloudiness. 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	96	96	97	96	..	1	2	3	3	5	..	..	..	14	1	6	2	20	3	3	5	41	..	..	81	2·2	2·5	2·0	2·23	7·	8·	6·	7·	10	.....	3·3513	..	.....	.....	3·3513	..	..	..	9	....	14	4	2nd, 4th, 8th, 11th, 21st, 23rd, 26th, 28th, 29th.
Cornwall	90	74	86	83	..	..	6	1	8	39	22	2	3	81	3	..	1	..	1	4	9	6	36	21	81	0·7	1·2	0·4	0.77	6·1	7·9	5·2	6·4	11	123.50	4·0937	1	3 1	0·4	4·1337	1	1	2	1	2	11	9	10th, I.; 28th, II,; 2nd, 3rd, III.; 29th, IV.
Barrie	88	68	87	81	15	17	18	5	..	4	5	5	12	81	1	2	..	..	..	..	2	4	43.29	81	1·0	1·8	0·9	1·2	5·3	5·4	3·9	4·9	13	.....	3·1524	1	.....	imp.	3·1524	..	..	..	..	....	10	17	
Peterborough	93	79	87	86	10	8	5	..	7	3	2	18	28	81	6	..	..	4	..	7	13	10	18	23	81	1·04	1·92	0·96	1·3	5·88	5·66	3·96	5·17	14	114·5	2·6638	1	9·	imp.	2·6638	1	..	..	6	2	8	10	14th, I.; 1st, 5th, 11th, 16th, 28th, 29th, IV.
Belleville	87	67	88	80	3	4	23	8	12	5	16	4	6	81	1	..	1	1	1	..	12	1	24	40	81	1·1	1·3	0·8	1·07	4·2	4·4	2·6	3·72	14	46·	3·397	..	.....	.....	3·397	..	..	..	2	....	7	17	28th, 29th.
Goderich	83	69	82	78	3	1	..	3	13	10	8	4	16	24	81	8	..	1	2	2	6	13	13	18	81	1·7	2·0	1·2	1·63	5·8	6·4	4·1	5·42	11	.....	2·1897	1	.....	0·5	2·2397	..	..	..	2	2	8	15	3rd, 28th.
Stratford	87	69	84	80	3	5	15	4	..	12	3	12	27	81	2	2	2	..	..	4	2	12	29	28	81	1·4	3·1	1·3	1·9	5·4	5·9	3·9	5·1	9	60·	2·4698	3	2·30	imp.	2·4698	....	2	2	....	7	20	2nd, 28th, III.; 5th, 29th, IV.
Hamilton	87	71	83	80	..	9	7	.....	15	28	6	16	81	..	1	2	..	..	8	15	9	26	20	81	1·33	2·52	1·3	1·71	6·1	5·63	4·3	5·34	11	.....	3·4983	2	.....	imp.	3·4983	..	1	1	5	2	9	13	14th, II.; 1st, III.; 2nd, 3rd, 5th, 28th, 29th,
Simcoe	89	71	86	82	7	25	..	19	10	9	3	7	1	81	9	4	2	2	5	16	..	6	4	33	81	1·3	1·8	1·7	1·6	5·2	5·6	4·7	5·2	11	64·	3·2946	1	.....	imp.	3·2946	..	..	1	4	..	10	12	14th, II.; 1st, 5th, 21st, 26th, III. [IV.
Windsor	80	56	80	72	6	5	11	3	18	5	5	16	12	81	3	1	..	..	1	1	6	7	35	27	81	1·26	2·2	1·1	1·52	5·3	5·6	5·5	5.5	5	.....	1·3250	..	.....		1·3250	..	..	..	4	....	14	9	5th, 14th, 16th, 28th.

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

REMARKS.

Pembroke.—Lightning and thunder with rain, 6th. Rain, 3rd, 6th, 12th, 13th, 15th, 16th, 18th, 25th, 27th, 31st.

Cornwall.—Thunder, 5th. Lightning with rain, 6th. Lunar rainbow, 19th. Fogs, 4th, 5th, 24th, 25th. Snow, 14th. Rain, 4th, 8th, 10th, 13th, 15th—18th, 23rd, 26th, 27th

Barrie.—First snow, in the night 14th—15th. Lunar halo, 11th. Snow, 15th. Rain, 1st, 3rd, 6th, 7th, 9th, 10th, 12th, 13th, 17th, 19th, 25th, 26th, 27th.

Peterborough.—Lightning and thunder with rain, 6th, 7th. Shooting star on 8th, at 9 p.m., from about 70° to 30° N.E, to S.W. Fogs, 3rd, 4th, 9th, 12th, 18th, 21st. Rain, 1st—3rd, 6th—8th, 10th, 12th, 15th, 17th, 19th, 21st, 25th, 27th. No high wind. Remarkably calm and fine, especially the last half. But little frost—none heavy. First and only snow on 15th. Barometer remarkably high the latter part of month. Very singular and beautiful red aurora (class I?) on 14th, at 7 p.m., most brilliant in N.E., from 30° to 60° above H, also in Z, gradually fading out towards E.

Belleville.—Lightning and thunder with rain, 6th. Rain, 3rd,