VII. 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 August, 1873.

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*—George Dickson, 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.
	°	°	Ft.		Inches.										
i Pembroke	45·50	77·10	....	423	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
f Cornwall	45·0	74·50	137	175	29·8592	29·8286	29·8330	29·8403	30·085	7 a.m.	29·420	1 p.m.	·665	.....	....
d Barrie	44·25	79.45	59	779	28·5850	28·3042	28 5966	28·4953	28·982	7 a.m.	27·915	1 p.m.	1·067	·566	30—
k Peterboro'	44·20	78·25	....	670	29·3478	29·3224	29·3248	29·3317	29·608	7 a.m.	28·969	7 a.m.	·639	·277	15—16
e Belleville	44·10	77·52	72	307	29·7338	29·7118	29·7124	29·7193	29·965	7 a.m.	29·379	1 p.m.	·586	·247	6—7
g Goderich	43·45	81·42	....	715	29·2862	29·2908	29·2822	29·2864	29·567	1 p.m.	28·948	7 a.m.	·619	·348	5—6
k Stratford	43·25	80·58	....	1182	28·8119	28·7958	28·8082	28·8053	29·114	7 a.m.	28·441	7 a.m.	·673	·241	15—16
h Hamilton	43·12	79·50	90	324	29·6506	29·6479	29·6100	29·6361	30·271	1 p.m.	29·324	9 a.m.	·947	·552	5—6
l Simcoe	42·51	80·14	150	716	29·0645	29·0258	29·0328	29·0410	29·298	1 p.m.	28·692	1 p.m. / 9 p.m.	·606	·315	28—29
m Windsor	42·20	83·00	....	620	29·4139	29·4143	29·4167	29·4150	29·117	7 a.m.	29·694	1 p.m.	·577	·386	2 –4

Station.	Temperature of the Air: Monthly Means: 7 A.M.	1 P.M.	9 P.M.	Me'n	Mean Maximum.	Mean Minimum.	Mean Range.	Daily Ranges: Greatest.	Date.	Least.	Date.	Highest: Reading.	Date.	Lowest: 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.	Me'n
	°	°	°	°	°	°	°	°		°		°		°		°		°		°				
i Pembroke	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....	....	....	....
f Cornwall	62·98	73.11	63·31	66·46	75·78	50·98	24·80	43·0	29	1 ·1	15	84·5	2	39·0	28 / 29	45·5	2	75·13	23 / 26	57·63	·481	·492	·469	·480
d Barrie	64·64	76·02	64·42	68·36	78·17	53·32	24·85	38·3	6	12·2	1	89·1	30	44·0	6	45·1	21	75·50	25	61·30	509	·606	·506	·540
k Peterboro'	62·42	76·07	65·33	67·94	80·65	5·11	27·54	39·6	28	15·3	15	89·1	28	40·3	25	48·8	22	75·26	25	61·36	·499	·552	·589	·530
e Belleville	63·80	73·63	65·86	67·76	77·05	57·28	19·77	26·6	27	12·1	13	82·6	21	43.5	25	39·1	1	74·13	27	62·23	·509	·561	·530	·534
g Goderich	67·33	76 32	67·08	70·24	78·90	55·19	23·71	34·6	9	16·9	31	89·0	21	41·4	17	47·6	2	77·43	16	59·57	·571	·631	·541	·581
k Stratford	62·03	73·10	63·73	66·29	74·52	55·56	18·96	28·2	5	6·5	13	82·5	21	*46·5	5	36·0	21	74·47	16	58·67	·520	·555	·503	·526
h Hamilton	67·91	75·22	67·80	70·31	80·32	58·88	21·44	28·3	4	9·4	27	89·8	7	45·8	18	44·0	19	80·90	13	61·86	·564	·582	·518	·555
l Simcoe	70·40	78·74	69·92	73·82	80·57	56·52	24·05	33·0	18	14·0	7	88·0	30	41·8	18	46·2	1	78·4	16	58·0	·609	·682	·607	·633
m Windsor	69·27	78·78	67·98	72·01	81·71	59·99	21·72	36·7	19	12·8	13	94·5	21	49·6	19	44·9	20	78·23	18	66·87	·557	·576	·539	·557

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.

*41° was observed Sunday, 17th.

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.
Pembroke	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cornwall	83	60	78	74	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barrie	84	64	82	77	6	2	12	15	2	4	3	17	17	78	6	2	1	4	..	1	5	16	22	21	78
Peterborough	87	62	86	78	10	3	6	1	8	5	10	3	32	78	9	2	2	1	1	2	20	4	25	12	78
Belleville	85	67	82	78	4	1	16	9	22	7	3	6	10	78	3	..	2	2	3	1	5	..	33	29	78
Goderich	85	69	82	78	2	7	13	9	4	10	1	17	15	78	2	3	3	2	2	3	6	9	28	20	78
Stratford	93	68	84	82	4	6	8	6	4	11	8	5	26	78	2	3	5	4	1	4	8	4	23	24	78
Hamilton	81	71	77	77	5	18	11	8	4	18	9	1	4	78	4	11	7	4	2	10	5	..	21	13	77
Simcoe	82	68	81	77	..	..	..	23	..	37	..	18	..	78	..	8	..	3	..	..	..	9	..	58	78
Windsor	79	59	79	72	4	17	15	2	8	3	6	5	18	78	..	3	5	1	..	1	5	1	31	31	78

Station.	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. impossible.	Sky unfavorable, obs. doubtful.	Sky favorable, none seen.	
Pembroke	..	..	..	..	...	...	...	...	..	....	....	..	....	....	.....	..	..	..	..	..	..	....	
Cornwall	0·8	1.7	0·5	1·	5·4	7·0	3·8	5·4	9	34·20	1·9540	..	....	....	1·9540	..	..	4	7	..	9	7	17th, 22nd, 23rd, 26th, III.; 2nd, 13th, 16th, 19th, 21st, 27th, 30th, IV.
Barrie	1·5	2·3	0·7	1·5	4·9	5·4	2·5	4·4	9	....	2·2044	..	....	....	2·2044	..	..	..	1	1	7	17	16th.
Peterborough	0·65	1·3	0·34	0·76	6·7	5·5	2·9	5·1	10	23·55	1·742	..	....	....	1·742	..	..	..	1	2	2	21	19th.
Belleville	1·3	1·6	0·9	1·3	5·5	4·7	3·6	4·6	9	17·30	2·169	..	....	.....	2·169	..	..	..	..	1	10	15	
Goderich	1·7	2·5	1·7	2·0	5·2	4·2	3·4	4·28	13	14·0	1·0186	..	....	....	1·0186	..	..	..	..	4	6	16	
Stratford	1·8	3·5	0·8	2·0	5·4	5·6	2·3	4·4	8	28·30	2·5971	..	....	....	2·5971	..	..	..	..	..	5	26	
Hamilton	2·2	2·8	2·1	2·4	5·0	3·6	2·6	3·7	7	....	2·4983	..	....	.....	2·4983	..	..	..	1	..	3	22	23rd.
Simcoe	1·2	1·8	1·3	1·4	4·0	1·6	1·1	2·2	8	57·0	2·8703	..	....	....	2·8703	..	..	..	..	..	3	23	
Windsor	2·0	2·6	1·0	1·9	5·0	5·0	3·8	4 6	2	. . .	·1883	..	....	....	·1883	..	..	..	1	..	8	17	12th.

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.

Cornwall.—Thunder with rain, 1st, 30th. Lightning and thunder with rain, 22nd, 31st. Wind storms, 30th. Fogs, 4th, 27th. Rain, 1st, 7th, 12th, 15th, 16th, 19th, 23rd, 26th, 31st.

Barrie.—Thunder, 11th. Lightning and thunder with rain, 12th, 21st. Rain, 2nd, 7th, 11th, 12th, 15th, 16th, 21st, 24th, 25th.

Peterborough.—Lightning, 11th, 21st, 22nd (evening). Thunder, 22nd (morning). Lightning and thunder with rain, 31st. Fog, 29th. Rain, 1st, 2nd, 11th—14th, 16th, 24th, 25th, 31st. Lunar halo, 10th.

Belleville.—Lightning, 11th. Lightning with thunder, 12th. Lightning and thunder with rain, 23rd. Very dense fogs, mornings of 20th and 21st—ending 7 a.m. Rain, 1st, 7th, 11th, 13th, 16th, 18th, 19th, 22nd, 23rd.

Goderich.—Hail, 12th. Lightning and thunder with rain, 12th, 21st, 22nd, 24th, 30th. Fog, 25th. Rain, 6th, 7th, 10th, 12th, 15th, 16th, 20th, 21st, 22nd, 24th, 29th, 30th, 31st. Lunar rainbow, evening of 7th.

Stratford.—Lightning, 27th. Lightning with thunder, 21st. Lightning with rain, 31st. Lightning and thunder with rain, 12th, 22nd. 25th. Fogs, 19th, 26th, 30th. Rain, 2nd, 11th, 12th, 13th, 16th, 22nd, 28th, 31st. Excess of mean monthly temperature over average of August 12 years—+ 1°31.