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

ABSTRACT OF MONTHLY METEOROLOGICAL RESULTS, compiled from the Returns of the daily observations at ten High School Stations, for DECEMBER, 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.										
iPembroke..	45·50	77·10	....	423	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
fCornwall ..	45·0	74·50	137	175	29·8724	29·8310	29·8521	29·8518	30·556	7 a.m.	1	29·192	7 a.m.	4	1·364	·760	3—4
dBarrie	44·25	79.45	59	779	28·9673	28·9221	28·9677	28·9624	29·582	7 a.m.	1	28·173	7 a.m.	4	1·409	1·043	4—5
kPeterboro'	44·20	78·25	....	670	29·2975	29·2642	29·2748	29·2789	29·882	7 a.m.	1·15	28·567	7 a.m.	4	1·315	·606	10—11
eBelleville ..	44·10	77·52	72	307	29·6923	29·6585	29 6694	29.6735	30·186	9 p.m.	6	29·139	1 p.m.	29	1·047	·754	4—5
gGoderich ..	43·45	81·42	....	715	29·2673	29·2524	29·2571	29.2589	29·759	9 p.m.	6	28·627	9 p.m.	3	1·132	·824	4—5
hStratford ..	43·25	80·58	....	1182	28·7506	28·7343	28·7495	28·7448	29·217	9 p.m.	6	28·223	7 a.m.	4	·994	·764	4—5
hHamilton..	43·12	79·50	90	324	29·67. 3	29·6419	29·7034	29 6745	30·441	9 p.m.	22	29·095	7 a.m.	4	1·346	·845	4—5
lSimcoe	42·51	80·14	150	716	29·0573	29·033	29·066	29 052	29.535	9 p.m.	6	28·482	7 a.m.	8	1·053	·790	4—5
mWindsor..	42·20	83·00	....	620	29·4169	29·3902	29·4194	29·4088	29·902	7 a.m.	6	28 759	9 p.m.	3	1·143	·896	6—8

STATION.	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.	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.	Mean.
	°	°	°	°	°	°	°	°		°		°		°		°		°		°				
iPembroke..	.....	.....	.....	.....	.....	.....	.....	.....	....	..	..	.....	....	.....	....	.....	.....	.....	....	.....	·117	·129	·121	·122
fCornwall ..	21·96	27·02	24·53	24·50	30·86	11·32	19·54	35·3	16	7·0	27	60·0	4	-22·3	1	88·3	4	44·43	1	-5·07	·117	·129	·121	·122
dBarrie	27·01	31·54	27·42	28·66	40·38	19·54	20·84	38·4	16	6·8	10	54·4	4	-1·4	30	55·8	3	45·50	1	12·17	·145	·169	·146	·153
kPeterboro'	23·72	29·69	25·34	26·25	34·30	14·66	19·64	36·0	2	8·0	5	52·1	4	-5.5	30	57·6	3	42·66	1	5·40	·126	·140	·129	·132
eBelleville ..	29·26	31·40	28·53	28·73	35·86	19·61	16·25	35·7	2	7·7	12	55·7	4	-1·0	30	56·7	3	41·93	1	5·26	·143	·160	·154	·152
gGoderich ..	29·81	31·89	30·72	30·80	35·04	25·38	9·66	34·0	4	2·5	10	55·9	4	17·1	30	38·8	3	52·37	1	20·13	·149	·156	·157	154
hStratford ..	26·84	30·47	28 00	28·44	33·87	22·36	11·51	31·0	4	3·4	27	53·5	4	8·6	23	44·9	3	49·27	30	15·90	·140	·150	·147	·126
hHamilton..	31·45	35·15	33·35	33·32	38·54	24·57	13·97	25·0	2	4·0	25	54·6	3	11·3	1	43·3	3	52·70	30	20·76	·167	·191	·181	·180
lSimcoe	32·23	38·42	33·37	34·67	42·06	21·15	20·91	34·6	8	9·5	19	54·8	3	10·8	1	44·8	3	54·06	1	19·66	·168	·213	·181	·187
mWindsor..	29·66	35·20	31·58	32·15	88·72	25·97	12·75	26·9	4	3·0	25	57·1	3	11·0	30	46·1	3	55·03	30	17·20	·149	·160	·166	·158

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.
Pembroke	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Cornwall.....	88	81	86	85	1	12	18	4	14	16	7	7	2	81	..	..	..	..	1	1	7	2	63	7	81
Barrie.....	95	93	94	94	6	7	10	..	..	4	14	7	33	81	5	..	..	..	..	1	8	..	66	6	81
*Peterborough	89	81	87	86	2	6	4	6	..	7	27	14	15	81	1	..	..	..	3	2	14	11	41	5	81
Belleville.....	93	88	94	92	..	4	15	13	21	7	9	7	5	81	1	..	1	..	..	2	12	.	57	8	81
Goderich	87	83	87	86	6	3	3	17	9	10	5	9	19	81	..	1	..	1	5	12	9	9	35	5	81
Stratford	92	84	90	89	2	2	2	3	11	16	11	10	24	81	..	..	..	..	1	8	7	3	52	10	81
Hamilton.....	88	88	90	88	2	15	1	..	10	33	7	2	1	81	..	2	1	..	5	19	8	..	35	11	81
Simcoe.....	89	88	89	89	..	6	..	3	..	31	17	34	..	81	..	22	7	30	..	6	..	3	..	13	81
Windsor.....	86	75	87	83	2	7	4	3	13	10	13	10	19	81	..	..	..	..	.	2	9	4	52	14	81

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. doubtful.	Sky unfavorable, obs. impossible.	Sky favorable, none seen.	
Pembroke	....	....	....	....	...	...	...	...	..	....	.....	..	....	....	.....	..	..	..	..	..	..	....	
Cornwall.....	1·7	1·8	1·4	1·63	8·6	7·6	8·0	8·1	3	27·	1·0321	11	66·35	15·4	2·5721	..	..	1	2	..	22	3	7th, III.; 10th, 16th, IV.
Barrie.....	1·2	1·5	1·2	1·3	8·7	8·6	7·2	8·1	5	.....	1·091	12	.....	18·50	2·941	..	..	..	..	..	19	8	
*Peterborough	2·03	2·00	1·55	1 86	8·77	7·55	7·74	8·02	7	43·25	.....	15	55·40	7·655	1·8236	..	..	..	..	2	16	9	
Belleville.....	1·4	1·3	1·1	1·3	8·7	7·5	8·2	8·12	5	35·	1·519	6	32·	17·5	3·269	..	..	..	..	..	20	7	
Goderich	1·8	1·8	2·3	2 0	8·7	8·0	7·4	8·0	7	17·	·8911	11	22·5	13·5	2·2411	..	..	..	..	1	19	7	
Stratford	1·8	2·9	1·7	2·13	8·2	8·5	7·3	8·0	6	72·	2·9916	8	76·	20·	4·9916	..	..	..	..	..	20	11	
Hamilton.....	4·6	4·9	39·	4·5	8·1	7·4	6·7	7·48	9	.....	3·0368	8	.....	28·77	5·9138	..	..	..	..	..	17	10	
Simcoe.....	1·7	1·7	1·85	1·75	9·22	8·51	6·40	8·14	6	.....	2·2707	4	.....	11·	3·3707	..	..	..	..	19	8	27	
Windsor.....	1·2	1·5	1·5	1·4	7·7	7·9	7·5	7·7	6	.. ...	3·5138	3	.....	9·5	4·4638	..	..	..	..	..	19	8	

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.
* Record of rain at Peterborough incomplete this month owing to an accident.

REMARKS.

CORNWALL.—Wind storms, 4th, 30th. Snow, 2nd, 11th, 13th—15th, 20th, 21st, 27th—30th. Average temperature for the month 9–10ths degree higher than in November.

BARRIE.—Wind storms (very violent), 4th. Snow, 1st, 2nd, 3rd, 9th, 10th, 12th, 13th, 19th, 24th, 26th, 29th, 30th. Rain, 2nd, 3rd, 8th, 11th, 16th. Most extraordinarily mild. Old residents say there has not been so mild a winter since 1837.

PETERBOROUGH.—Wind storms, 1st, 4th, 20th, 29th. Fog, 2nd, 3rd (all day), 15th (night), 17th (morning and evening). Snow, 2nd, with sleet, 5th, 10th—13th. Rain, 2nd—4th, 7th, 8th, 11th, 27th. The wind storm of 4th was of great violence; began about 7 a.m. and continued all day—one man killed. Thaw on 3rd.

BELLEVILLE.—Wind storms, 4th. Fogs, 16th, 17th. Snow, 10th, 11th, 13th, 19th, 25th, 29th. Rain, 2nd, 3rd, 8th, 9th, 11th. Furious gales during the whole of 4th; their momentum seems to have been greater than that of any wind recorded here since the establishment of the station (1858); many buildings and trees injured or destroyed in town and country.

GODERICH.—Fogs, 1st, 4th, 29th. Snow, 1st, 5th, 9th, 12th, 13th, 19th, 20th, 24th—26th, 31st. Rain, 1st—3rd, 8th—11th.

STRATFORD.—Wind storms, 3rd, 4th, 29th. Fogs, 8th, 15th, 19th,