IV. 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 September, 1872.

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Barometer at Temperature of 32° Fahrenheit.

Station.	North Latitude.a	West Longitude.a	Elevation. a: Above the Lake.	Above the Sea.	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	29·271	29·253	29·266	29·2634	29·609	9 p.m. 14	28·925	7 a.m. 19	·684	·266	13—14
f Cornwall	45·0	74·50	137	175	29·7665	29·7519	29·7562	29·7582	30·026	1 p.m. 23	29·408	1 p.m. 19	·618	·331	19—20
d Barrie	44·25	79·45	59	779	28·6410	28·3927	28·6407	28·5581	29·100	7 a.m. 14	27·563	1 p.m. 7	1·5237	·647	7—
k Peterboro'	44·20	78·25	....	670	29·2442	29·2244	29·2269	29·2318	29·514	7 a.m. 14	28·892	7 a.m. 19	·622	·460	13—14
e Belleville	44·10	77·52	72	307	29·6671	29·6408	29·6366	29·6480	29·927	7 a.m. 14	29·324	7 a.m. 19	·603	·436	13—14
g Goderich	43·45	81·42	....	715	29·1991	29·1902	29·1868	29·1920	29.562	7 a.m. 14	28·846	7 a.m. 19	·716	·515	19—20
h Stratford	43·25	80·58	....	1182	28·7145	28·6973	28·7126	28·7081	29·041	7 a.m. 14	28·349*	7 a.m. 19	·692	·500	19—20
h Hamilton	43·12	79·50	90	324	29·5969	29·5726	29·5834	29·5844	29 919	7 a.m. 14	29·231†	7 a.m. 19	·688	·507	19—20
l Simcoe	42·51	80·14	150	716	29·0113	28·9924	28·9928	28·9987	29·291	7 a.m. 14	28·665	7 a.m. 19	·626	.....	.....
m Windsor	42·20	83·00	....	600	29·3373	29·3246	29·3218	29·3279	29·673	7 a.m. 14	29·017	9 p.m. 18	·656	·466	19—20

Temperature of the Air.

Station.	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.	Warmest Day: Monthly Range.	Mean Temp.	Coldest Day: Date.	Mean Temp.
	°	°	°	°	°	°	°	°		°		°		°		°	°		°
i Pembroke	57·2	63·8	58·3	59·8	71·1	51·2	19·9	33·5	5	7·9	20	87·8	7	37·5	5	50·7	74·93	3	48·84
f Cornwall	55·50	65·38	58·22	59·70	68·32	49·19	19·13	28·0	4	7·	20	86·8	7	38·3	4	48·7	78·03	28	48·97
d Barrie	57·11	67·74	56·28	60·38	72·28	47·88	24·40	40·6	2	12·9	12	94·1	7	35·5	3	58.7	82·27	27	48·50
k Peterboro'	54·23	70·08	58·18	60·83	75·01	48·51	26·50	38·6	16	14·8	20	95·7	7	35·4	21	60·7	78·66	27	51·06
e Belleville	55·82	65·64	58·48	59·98	68·63	51·18	17·45	27·0	21	9·8	19	84·7	7	37·7	21	47·7	75·70	20	50·86
g Goderich	58·01	65·12	59·10	60·74	68·17	50·14	18·03	30·0	4	7·5	30	84·1	6	36·2	28	47·7	77·03	27	47·37
h Stratford	55·05	64·01	56·81	58·62	67·37	50·06	17·31	27·6	4	9·2	19	84·0	7	35·7	28	48.7	77·07	27	45·83
h Hamilton	58·76	67·53	60·61	62·30	72·24	54·11	18·14	29·1	16	7·2	11	91·8	8	37·8	28	54·7	80·8	28	50·9
l Simcoe	56·55	68·29	60·16	61·67	72·71	51·35	21·35	33·5	23	8·5	5	84.7	9	36·0	28	48·7	78·13	27	48·73
m Windsor	59·06	71·69	60 34	63·70	74·90	52·48	22·42	34.7	4	7·1	30	95·0	6	33·0	28	62·6	81·83	27	48·47

Tension of Vapour

Station.	Monthly Means: A.M.	1 P.M.	9 P.M.	Me'n.
i Pembroke	·468	·597	·485	·517
f Cornwall	·404	·445	·430	·426
d Barrie	·411	·456	·409	·425
k Peterboro'	·412	·601	.455	.490
e Belleville	·436	·488	·434	·453
g Goderich	·408	·448	·413	·423
h Stratford	·424	·545	·475	·481
h Hamilton	·441	·486	·447	·458
l Simcoe	·425	·468	·447	·447

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* the Detroit River. *k* Inland Towns.

* Also 28·316, 10 a.m., 29th. † Also 29·205, 9.40 a.m., 29th.

Humidity of Air. Monthly Means.

Station.	7 A.M.	1 P.M.	9 P.M.	Mean.
Pembroke	97	97	97	97
Cornwall	89	68	87	81
Barrie	84	66	86	79
Peterborough	92	78	90	87
Belleville	87	67	86	80
Goderich	86	76	83	82
Stratford	89	71	84	81
Hamilton	85	70	82	79
Simcoe	89	75	86	84
Windsor	82	58	82	74

Winds. Number of Observations.

Station.	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	3	3	26	2	17	3	21	..	75		..	2	1	1	4	3	1	..	..	12	
Cornwall	2	2	1	10	34	24	1	1	75	1	1	1	2	7	21	6	28	7	75		
Barrie	11	16	6	2	3	4	8	17	75	5	..	1	..	2	3	4	3	38	19	75	
Peterborough	2	3	3	15	7	3	8	26	75	3	..	..	2	8	12	5	10	17	18	75	
Belleville	1	10	10	26	5	13	2	3	75	1	2	1	..	3	1	10	1	25	31	75	
Goderich	9	1	5	9	15	18	1	7	10	75	5	..	..	2	5	13	14	6	20	10	75
Stratford	3	1	5	2	10	23	5	8	18	75	1	..	3	..	3	12	3	4	23	26	75
Hamilton	..	4	5	2	6	12	20	10	16	75	..	1	2	..	6	5	15	7	28	18	75
Simcoe	..	9	..	15	3	21	3	24	..	75	3	10	2	11	..	4	..	7	..	38	75
Windsor	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	75

Estimated b Velocity of Wind. Monthly Means.

Station.	7 A.M.	1 P.M.	9 P.M.	Mean.
Pembroke	1·8	2·0	1·7	1·9
Cornwall	1·2	2·0	0·9	1·37
Barrie	1·28	1·64	1·0	1·31
Peterborough	1·08	2·	0·84	1·31
Belleville	1·4	1·7	1·2	1·43
Goderich	2·0	2·6	1·8	2·13
Stratford	1·8	3·7	1·6	2·37
Hamilton	1·72	1·72	1·64	1·69
Simcoe	1·44	2·88	1·44	1·92

Amount of Cloudiness. Monthly Means.

Station.	7 A.M.	1 P.M.	9 P.M.	Mean.
Pembroke	8·	7·	7·	7·
Cornwall	8·	7·9	6·8	7·6
Barrie	6·	6·2	4·7	5·6
Peterborough	7·68	5·2	3·88	5·58
Belleville	5·9	4·3	2·8	4·3
Goderich	6·6	6·3	4·8	5·88
Stratford	5·6	5·1	4·2	5·0
Hamilton	5·24	6·32	4·56	5·37
Simcoe	4·04	5·16	2·64	3·94
Windsor	4·8	5·6	4·2	4·86

Rain.

Station.	No. of Rainy Days.	Duration in hours.	Depth in inches.
Pembroke	12	.....	3·6931
Cornwall	15	61·20	3·6753
Barrie	18	.....	3·8590
Peterborough	17	78·45	3·8645
Belleville	13	31·	3·659
Goderich	16	64.	7·1611
Stratford	23	.....	6·3078
Hamilton	14	.....	2·9658
Simcoe	12	46·	5·5783
Windsor	12	.....	3·6245

Snow.

Station.	No. of Snowy Days.	Duration in hours.	Depth in inches.
Pembroke			
Cornwall			
Barrie			
Peterborough			
Belleville			
Goderich			
Stratford			
Hamilton			
Simcoe			
Windsor			

Station.	Total Depth of Rain and Melted Snow.
Pembroke	3·6931
Cornwall	3·6753
Barrie	3·8590
Peterborough	3·8645
Belleville	3·659
Goderich	3·3078
Stratford	7·1611
Hamilton	2·9658
Simcoe	5·5783
Windsor	3·6245

Auroras.

Station.	Class I.	Class II.	Class III.	Class IV.	Sky unfavorable, obs. doubtful.	Sky unfavorable, obs. impossible.	Sky favorable, none seen.	When Observed.
Pembroke	..	..	..	4	....	12	9	4th, 14th, 20th, 25th.
Cornwall	..	..	3	..	....	16	7	2nd, 4th, 8th.
Barrie	..	..	..	..	....	11	14	
Peterborough	..	..	..	1	4	7	13	24th.
Belleville	..	..	..	..	....	7	18	
Goderich	..	..	..	1	....	9	15	9th.
Stratford	..	..	..	..	....	9	20	17th.
Hamilton	..	1	1	1	....	12	15	17th, III.; 29th, IV.
Simcoe	..	..	1	..	....	5	19	2nd.
Windsor	..	..	..	..	....	9	16	

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, 17th. Rain, 5th, 8th, 9th, 11th 13th, 17th, 18th, 22nd, 23rd, 26th, 28th, 29th.

Cornwall.—Lunar halo on 15th. Lightning with rain, 29th. Thunder with rain, 19th. Lightning and thunder with rain, 7th, 8th, 10th, 24th. Wind-storms, 2nd, 30th. Fogs, 17th, 18th. Rain, 2nd, 7th, 8th, 9th, 11th, 13th, 14th, 18th, 19th, 20th, 23rd, 24th, 26th, 29th, 30th.

Barrie.—Lightning 6th. Lightning and thunder with rain, 7th. First frost, 2nd—3rd. Wind-storms, 26th, 29th. Rain, 4th, 5th, 7th—13th, 17th—19th, 22nd, 23rd, 25th, 26th, 29th, 30th.

Peterborough.—Lightning and thunder with rain, 7th, 12th, 18th, 19th, 22nd, 23rd. Frost, 13th, 15th, 21st, 26th. Wind-storm, 29th. Fogs, 6th, 7th, 8th, 10th, 11th, 16th, 21st, 23rd. Rain, 4th—11th, 17th—19th, 22nd—26th, 28th. Very heavy rain on 16th.

Belleville.—Lightning with thunder, 22nd. Thunder with rain, 12th. Lightning and thunder with rain, 7th, 23rd. Wind-storms, 7th, 12th, 25th, 30th. Rain, 2nd, 4th, 5th, 7th, 10th, 12th, 13th, 18th, 19th, 23rd, 25th, 29th, 30th. Heavy rain, 7th and 12th.

Goderich.—Lightning, 4th and 9th. Lightning with thunder, 26th. Lightning and thunder with rain, 5th, 6th, 7th, and 8th. Wind-storms, 6th, 29th. Rain, 2nd, 4th—13th, 16th—19th, 21st—23rd, 25th, 26th, 28th, 29th, 30th. Unusually heavy rain storm on evening of 6th, from