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 January, 1872.

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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	29·349	29·336	29·336	29·30	30·000	7 a.m.	2 28·817	7 a.m.	22 1·183	....	....
fCornwall	45·0	74·50	137	175	29·7246	29·7145	29·7172	29·7187	30·485	7 a.m.	2 29·170	7 a.m.	23 1·265	·676	10—
dBarrie	44·25	79·45	59	779	28·9097	28·8495	28·8947	28·8846	29·512	9 p.m.	1 28·342	9 p.m.	22 1·170	·941	12—13
kPeterboro*	44·20	78·25	....	670	29·191	29·155	29·160	29·170	29·833	9 p.m.	1 28·635	9 p.m.	22 1·198	·602	10—11
eBelleville	44·10	77·52	72	307	29·6503	29·6367	29·6394	29·6421	30·248	7 a.m.	2 29·171	9 p.m.	26 1·077	·545	10—11
gGoderich	43·45	81·42	....	715	29·2109	29·1804	29·1967	29·1960	29.745	1 p.m.	1 28·704	9 p.m.	22 1.041	·526	2— 3
lStratford	43·25	80·58	....	1182	28·6684	28·6394	28·6560	28·6546	29·199	9 p.m.	1 28·110	9 p.m.	22 1·089	·496	18—19
hHamilton	43·12	79·50	90	324	29·616	29·566	29·577	29·586	30·172	9 p.m.	1 28·975	9 p.m.	22 1·197	·533	2— 3
dSimcoe	42·51	80·14	150	716	29·0382	28·9966	29·0043	29·0130	29·568	1 p.m.	1 28·495	9 p.m.	19 1·073	·486	19—
mWindsor	42·20	83·00	....	630	29·3875	29·3353	29·3666	29·3631	29·885	7 a.m.	1 28·883	9 p.m.	22 1·062	·590	27—29

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.	Low'st. Reading.	Date.	Monthly Range.	Warmest Day. Date.	Mean Temp.	Coldest Day. Date.	Mean Temp.
	°	°	°	°	°	°	°	°		°		°		°		°		°		°
iPembroke	9·4	17·3	13·2	13·30	24·3	3·6	20·7	40.6	6	10·2	1	38·0	12	−22·6	15	60·6	5	32·67	8	−9·83
fCornwall	15·93	21·38	16·07	17·79	....	6·76	....	....	....	....	....	....	....	−13·3	24	....	12	34·70	8	−2·60
dBarrie	17·11	22·74	19·07	19·64	30·45	8·15	22·30	51·3	9	7·7	10	53·6	9	−11·1	8	64·7	11	33·90	8	4·17
kPeterboro*	15·3	22·6	17·3	18·45	26·96	5·0	21·9	45·2	23	10·0	10	44·1	1	−14·8	8	58·9	11	34·1	23	1·0
eBelleville	18·11	23·07	20·37	20·51	27·94	11·71	16·23	29·5	9	4·4	4	39·7	1–12	−9·8	8	49·5	11	35·66	23	1·26
gGoderich	22·45	25·33	23·74	23·84	31·74	16·55	15·19	27·2	17	6·0	4	37.4	12	−1·8	29	39·2	3	38·67	29	10·20
lStratford	17·33	22·41	20·02	19·92	25·99	12·96	13·03	24·4	23	4·0	4	35·2	11, 12, 13	−6·0	29	41·2	3	33·10	29	1·23
hHamilton	21·56	27·52	24·05	24·37	29·66	16·52	13·14	33·8	1	3·2	19	49·9	1	−2·6	29	52·5	11	37·23	29	6·03
dSimcoe	24·71	27·29	24·44	25·48	32·97	16·41	16·56	38·0	1	6·5	10	52·0	1	−2·5	29	54·5	3	37·2	29	4·33
mWindsor	20·94	26·69	23·38	23·67	29·48	16·21	13·27	26·2	23	2·9	4	46·5	12	−7·3	29	53·8	3	36·57	29	0·27

Station.	Tension of vapour. Monthly Means. 7 A.M.	1 P.M.	9 P.M.	Mean.
iPembroke	·074	·097	·083	·085
fCornwall	·090	·107	·090	·096
dBarrie	·096	·108	·101	·102
kPeterboro*	.....	.....	.....	.....
eBelleville	·101	·119	·108	·109
gGoderich	·105	.117	·108	·110
lStratford	·096	·106	·103	.102
hHamilton	·106	·117	·113	·112
dSimcoe	·095	·111	·107	·105
mWindsor	·098	·110	·109	·106

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.

* No observation on 5th and 6th, imperfect observation on 4th.

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	86	89	88	88	1	1	6	11	18	16	14	14	..	81	..	..	..	..	..	..	..	..	..	..	..
Cornwall	88	89	89	89	1	10	2	..	1	4	5	26	32	81	..	..	..	9	1	..	..	3	52	16	81
Barrie	93	82	90	88	8	3	10	7	1	8	10	18	16	81	..	..	1	..	2	3	4	68	3	81	
Peterborough	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Belleville	89	89	88	89	1	..	19	3	14	11	26	2	5	81	..	..	3	..	..	4	8	2	45	19	81
Goderich	82	81	80	81	10	1	..	5	14	15	8	2	26	81	6	2	1	..	3	4	20	4	38	3	81
Stratford	92	84	89	88	6	2	8	2	4	29	14	7	9	81	4	..	2	..	2	9	6	2	43	13	81
Hamilton	85	75	82	81	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Simcoe	76	70	78	75	1	13	2	3	1	46	6	9	..	81	..	22	2	7	1	7	1	..	33	8	81
Windsor	80	73	81	78	6	5	1	3	21	24	6	7	8	81	1	2	..	..	..	2	6	1	55	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.
Pembroke	1·5	1·5	1·2	1·4	7·	7·	6·	7·	..	....	....	7	.....	12.5	1·25
Cornwall	·6	1·2	·6	·8	7·5	7·3	7·1	7·3	..	.....	....	8	61.55	1·25	·1250
Barrie	1·3	1·7	1·2	1·4	8·9	7·9	7·8	8·2	..	.....	....	11	.....	18·05	1·805
Peterborough	1·3	1·3	1·1	1·23	8·	7·5	6·4	7·3	1	.....	....	16	.....	.....	.....
Belleville	1·2	1·3	1·1	1·2	8·3	6·3	6·4	6·99	..	.....	....	10	30·0	1·990	1·990
Goderich	1·8	1·7	1·5	1·67	8·3	8·3	8·0	8·21	..	.....	....	14	26·5	13·5	1·35
Stratford	2·7	5·2	2·6	2·83	6·8	6·9	7·4	7·0	2	14·	·0891	9	51·0	11·5	1·2391
Hamilton	1·82	2·07	1·7	1·86	7·7	7·6	7·11	7·47	3	.....	·204	16	....	8·	1.004
Simcoe	2·8	3.2	3·4	3·43	8·96	8·07	7·40	8·15	1	7·	·1797	7	41·5	17·	1·3797
Windsor	1·2	1·7	1·4	1·4	8·3	8·7	6·2	7·73	1	....	·2338	5	....	16·5	1·8838

Station.	Auroras. Class I.	Class II.	Class III.	Class IV.	Sky unfavorable, obs. doubtful.	Sky unfavorable, obs. impossible.	Sky favorable, none seen.	When Observed.
Pembroke	..	..	..	2	....	13	12	6th, 31st.
Cornwall	..	.	1	1	....	19	6	31s, III; 29th, IV.
Barrie	..	1	..	..	....	19	7	31st.
Peterborough	..	1	..	..	....	14	10	10th.
Belleville	..	..	1	..	1	17	8	31st.
Goderich	..	..	..	..	...	19	8	
Stratford	..	..	..	..	....	19	12	
Hamilton	..	..	..	1	6	15	5	6th.
Simcoe	..	..	1	..	....	16	10	6th.
Windsor	..	..	..	1	....	17	9	6th.

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.—Wind storm, 25th. Snow, 4th, 6th, 19th, 20th, 28th,—31st. Fall of snow during the month remarkably small.

Barrie.—Snow, 3rd, 11th, 13th, 15th, 19th, 21st, 22nd, 24th, 25th, 29th, 30th; on 26th, lunar halo.

Peterborough.—The observations for this month were slightly interrupted in consequence of a change of observers. The station is now 670 feet above the level of the sea, instead of 629 feet as heretofore. Mr. O'Beirne who has for many years performed the duty of observer with singular accuracy and regularity, is now succeeded by Mr. Dixon the head master of the Collegiate Institute. Wind storm, 12th. Fog 4th and 20th. Snow, 3rd, 4th, 11th, 13th, 15th, 16th, 18th—24th, 29th—31st. Rain, 19th. On 16th, lunar circle at 6 p.m., but sky clear at 10; the circle filled with greyish clouds. A similar circle on 25th. Snow not deep, but sleighing good throughout the month.

Belleville.—Wind storms, 11th, 29th. Snow, 3rd, 4th, 19th—24th, 28th, 29th.

Goderich.—Snow, 13th, 15th, 17th—27th, 30th.

Stratford.—Wind storms, 11th, 24th, 25th, 28th. Snow, 6th, 13th, 15th, 18th, 19th, 22nd, 24th, 28th, 29th. Rain, 3rd, 11th. Difference of monthly mean temperature from average of 11 years—0.°32.

Hamilton.—Wind storm, 11th, 25th. Snow, 6th, 13th, 15th, 16th,