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 JULY, 1874.

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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: Reading.	Highest: Date.	Lowest: Reading.	Lowest: Date.	Range: Monthly.	Range: Greatest in 24 hours.	Range: Date.	Temperature of the Air: Monthly Means: 7 A.M.	1 P.M.	9 P.M.	Mean
	°	°	Ft.		Inches.											°	°	°	°
*i*Pembroke..	45·50	77·10	....	423	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
*f*Cornwall ..	45·0	74·50	137	175	29·7362	29·7130	29·7248	29·7247	29·919	9 p.m. 11 / 7 a.m. 18	29·412	1 p.m. 31	·507	·350	14—15	67·30	75·00	65·65	69·32
*d*Barrie	44·25	79.45	59	779	28·4638	28·2384	28·5015	28·4013	28·815	9 p.m. 20	27·776	1 p.m. 15	1·039	·809	15—16	65·48	74·26	64·13	67·95
*k*Peterboro'	44·20	78·25	....	670	29·2499	29·2291	29·2186	29·2325	29·433	7 a.m. 14	28·997	9 p.m. 31	·436	·351	14—15	66·96	76·31	66·65	69·97
*e*Belleville ..	44·10	77·52	72	307	29·6276	29·6154	29·6167	29·6199	29·810	7 a.m. 14	29·376	7 a.m. 31	·434	·325	30—31	64·54	73·94	75·94	68·14
*g*Goderich ..	43·45	81·42	....	715	29·2299	29·2200	29·1962	29·2154	29·399	7 a.m. 14	28·929	7 a.m. 31	·470	·375	3—4	66·69	74·91	65·04	68·88
*k*Stratford ..	43·25	80·58	....	1182	28·7502	28·7397	28·7272	28·7390	28·938	7 a.m. 14	28·496	9 p.m. 31	·442	·344	3—4	61·62	73·68	64·47	66·59
*h*Hamilton..	43·12	79·50	90	324	29·4971	29·5137	29·5084	29·5067	29·782	7 a.m. 14	29·202	7 a.m. 31	·580	·379	6—7	69·71	71·95	69·32	?
*l*Simcoe	42·51	80·14	150	716	29·0623	29·0377	29·0560	29·0523	29·230	9 p.m. 23	28·752	7 a.m. 27	·478	·193	24—25	64·70	84·36	71·58	73·55
*m*Windsor..	42·20	83·00	....	620	29·3838	29·3584	29·3430	29·3617	29·554	7 a.m. 14	29·120	1 p.m. 4	·484	·326	3—4	68·10	79·78	68·13	72·01

STATION.	Temperature of the Air: 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: 7 A.M.	1 P.M.	9 P.M.	Mean
	°	°	°	°		°		°		°		°		°		°				
*i*Pembroke..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	....
*f*Cornwall ..	79·29	54·36	24·93	34·2	19	11·6	28	89·6	7	46·4	21	43·2	15	80·07	28	60·77	·520	·553	·517	·530
*d*Barrie	78·89	54·60	24·29	34·1	9	10·1	4	91·8	7	43·2	17	48·6	25	78·40	16	59·20	·529	·594	·505	·543
*k*Peterboro'	82·57	54·23	28·34	43·3	1	12·6	4	93·8	7	44·4	1	49·4	15	79· 4	16	60·20	·491	·507	·497	·498
*e*Belleville ..	77·70	59·64	18·06	24·2	23	8·3	4	86·1	25	51·6	1	34·5	25	78·16	17	61·86	·506	·569	·537	·537
*g*Goderich ..	77·36	55·84	21·52	29·7	30	10·3	8	87·5	7	44·0	17	43·5	15	76·80	16	56·83	·477	·526	·505	·503
*h*Hamilton..	80·84	58·91	21·92	33·6	1	12·4	20	91·8	7	48·6	1	43·2	7	81·96	28	63·63	·501	·528	·525	·518
*l*Simcoe	85·53	58·51	28·02	42·0	3	15·9	25	94·8	11	43·0	3	51·8	4 / 7	79·2	16	62·7	·527	·849	·636	·671
*m*Windsor..	83·07	60·50	22·57	31·2	29	14·6	3	99·8	7	48·6	29	51·2	7	85·83	27	60·23	·534	·591	·559	·561

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.
Pembroke	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cornwall.....	78	64	81	74	1	3	7	20	19	9	11	4	7	81	2	..	..	..	..	2	6	14	44	13	81
Barrie.....	84	69	84	79	17	5	2	12	..	8	9	20	8	81	11	2	..	1	..	4	12	20	14	17	81
Peterborough.	74	57	75	69	..	6	2	5	1	13	6	32	16	81	7	1	..	2	2	3	26	11	18	11	81
Belleville.....	81	68	83	77	2	..	7	6	27	8	19	6	6	81	1	1	..	1	1	3	11	5	23	35	81
Goderich	78	64	78	73	3	2	1	6	5	22	3	17	22	81	3	3	1	..	..	8	17	11	18	20	81
Stratford	85	62	82	76	12	5	1	1	2	20	7	9	24	81	6	5	1	..	1	4	3	17	19	25	81
Hamilton.....	67	56	73	65·36	4	..	4	2	10	17	30	9	5	81	1	..	..	..	4	7	11	4	29	25	81
Simcoe.....	82	71	81	78	..	9	5	36	1	24	..	6	..	81	1	7	..	4	..	..	5	10	..	54	81
Windsor.....	77	58	81	72	1	15	5	6	14	18	2	7	13	81	3	1	..	..	..	1	3	2	41	30	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.....	1·3	2·0	0·5	1·3	5·8	6·5	5·9	6·1	13	50·15	4·3892	..	.....	.....	4·3892	..	..	2	1	..	9	15	13th, 14th, III.; 31st, IV.
Barrie.....	2·2	3·2	1·1	2·2	5·	5·8	2·6	4·4	14	.....	1·9099	..	.....	.....	1·9099	..	..	..	..	..	7	20	
Peterborough.	1·66	2·33	1·18	1·72	4·29	6·11	3·77	4·73	11	52·55	5·2671	..	.....	.....	5·2671	..	..	..	1	..	26		
Belleville.....	1·1	1·5	1·0	1·2	2·7	5·2	3·2	3·7	12	36·	2·967	..	.....	.....	2·967	..	..	..	1	11	15		
Goderich	1·4	1·9	1·1	1·48	4·9	5·3	3·8	4·69	10	26·5	1·0569	..	.....	.....	1·0569	..	..	..	1	9	17		
Stratford	1·9	3·8	1·2	2·3	4·6	4·4	3·6	4·2	9	29·15	3·0617	..	.....	.....	3·0617	..	..	2	..	7	22	11th, 14th.	
Hamilton.....	3·2	4·2	2·4	3·3	4·18	3·92	4·33	4·14	6	.....	2·4118	..	.....	.....	2·4118	..	..	1	1	..	9	16	7th, III.; 21st, IV.
Simcoe.....	1·7	1·5	1·8	1·7	2·6	2·7	3·1	2·8	6	79·	3·1449	..	.....	.....	3·1449	..	..	..	..	9	18		
Windsor.....	1·9	2·3	1·6	1·93	4·7	7·1	4·7	5·5	8	.....	3·3515	..	.....	.....	3·3515	..	..	..	..	13	14		

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.—Night hawk seen, 1st. Lightning with rain, 31st. Thunder with rain, 2nd, 13th. Lightning and thunder with rain, 7th, 15th, 20th. Wind storm, 15th. Fog, 10th. Rain, 2nd, 3rd, 6th—8th, 13th, 14th, 16th, 20th, 27th—29th, 31st.

BARRIE.—Thunder, 24th. Lightning and thunder with rain, 1st, 3rd, 7th, 31st. Wind storm, 7th. Rain, 1st, 3rd, 4th, 6th, 10th, 12th, 13th, 15th, 25th, 26th, 27th, 30th, 31st. Storm of great violence on 7th, about 1 p.m.: hurricane with thunder, lightning and rain.

PETERBOROUGH.—Lightning, 1st. Thunder, 6th. Lightning, thunder and rain, 4th, 7th, 15th, 19th. Wind storm, 8th. Rain, 2nd, 4th, 7th, 10th, 12th, 15th, 19th, 26th, 28th, 30th, 31st. Comet observed, 5th. Rain very heavy on 4th, hailstones like marbles.

BELLEVILLE.—Lightning, 15th. Lightning and thunder with rain, 2nd, 4th. 7th, 20th, 31st. Wind storms, 7th, 15th. Rain, 1st, 2nd, 4th, 7th, 10th, 12th, 15th, 18th, 20th, 27th, 28th, 31st. A Tornado