

3. ABSTRACT OF MONTHLY METEOROLOGICAL RESULTS, compiled from the Returns of the daily observations at seven Stations for JULY, 1866.

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STATION.	North Latitude. <i>a</i>		West Longitude. <i>a</i>		Barometer at temperature of 32° Fahrenheit.										Temperature of the Air.										Tension of Vapour.															
	Above Lake.	Above the Sea.	MONTHLY MEANS.				HIGHEST.		LOWEST.		RANGE.		MONTHLY MEANS.			MEAN MAXIMUM		MEAN MINIMUM		DAILY RANGE.		HIGHEST.		LOWEST.		WARM-EST DAY		COLD-EST DAY		MONTHLY MEANS.										
			7 A.M.	1 P.M.	9 P.M.	MEAN.	Reading.	Date.	Reading.	Date.	Month.	Greatest.	Least.	Date.	7 A.M.	1 P.M.	9 P.M.	M.M.	Mean Maximum	Mean Minimum	Mean Range.	Greatest.	Least.	Date.	Reading.	Date.	Mean	Temp.	Mean	Temp.	7 A.M.	1 P.M.	9 P.M.	MEAN.						
Barrie	44.25	70.45	59	77.29	1107	29.0923	29.0828	29.0953	29.343	1 p.m.	9.28	7.93	1 p.m.	4	.555	.274	3-4	48.53	78.02	68.51	71.88	53.40	59.72	23.68	32.70	10.15	80.4	92.6	6.47	0	31	45.8	16	81.70	9	61.84	.588	703	.585	
Belleville	44.10	77.25	72	307	29.5946	29.5619	29.5551	29.5713	29.8567	7 a.m.	10.20	24.19	1 p.m.	4	.611	.250	4-5	59.21	76.63	69.77	71.87	59.52	61.85	18.0	27.20	2	9.60	4	86.70	16	18.80	2	37	90.17	80.10	19	64.36	.603	.654	.623
Hamilton	43.19	77.50	90	324	29.645	29.694	29.607	29.6925	29.8721	1 p.m.	10.29	31.91	1 p.m.	4	.553	.265	3-4	93.40	80.10	68.90	72.47	94.40	58.10	26.30	39.30	11	12.60	18	96.30	16	46.50	10	49.30	16	84.20	9	65.0	.585	.649	.606
Pembroke	44.50	77.10	...	400	29.472	29.419	29.409	29.4331	29.7547	7 a.m.	10.26	108.1	1 p.m.	4	.646	.277	2-3	69.0	76.78	72.70	72.83	84.30	69.70	24.60	38.50	20	12.30	21	93.0	16	44.50	20	43.50	16	85.67	18	61.97	.677	.871	.767
Peterborough	44.20	78.25	...	629	29.284	29.2554	29.2457	29.2818	29.5307	7 a.m.	10.28	91.6	1 p.m.	4	.651	.293	4-5	70.47	78.38	67.91	72.26	82.45	68.60	23.55	36.10	11	9.40	18	91.0	10	40.70	20	44.30	13	81.6	18	64.16	.560	.543	.549
Stratford	43.25	80.58	...	1182	29.7649	29.7463	29.7338	28.7481	29.0370	7 a.m.	10.28	381.7	1 p.m.	4	.649	.344	3-4	65.30	75.35	67.57	68.66	64.79	18.56	20.60	30.70	10	8.0	18	89.20	16	46.0	131	43.20	26	80.77	9	62.27	.576	.626	.604
Windsor	42.20	83.00	...	620	29.4083	29.3818	29.3626	29.3857	29.6107	7 a.m.	10.26	086.7	1 p.m.	4	.524	.254	3-4	72.24	81.10	69.86	74.44	85.25	61.30	23.93	34.50	13	12.60	20	95.20	14	63.90	2	42.30	14	94.83	9	65.73	.651	.714	.644

a Approximation. * On Lake Simcoe. † On Lake Ontario (Bay of Quinte). ‡ On the Detroit River.

STATION.	Humidity of Air.	Winds. Number of Observations.										A U R O R A S.										W H E N O B S E R V E D.									
		SURFACE CURRENT.					MOTION OF CLOUDS.					RAIN.					CLASS I.					CLASS II.					CLASS III.				
		North.	South.	East.	West.	Cal.	North.	South.	East.	West.	Cal.	North.	South.	East.	West.	Cal.	North.	South.	East.	West.	Cal.	North.	South.	East.	West.	Cal.	North.	South.	East.	West.	Cal.

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.

R E M A R K S.

BARRIE.—On 4th, lightning. 5th, lightning, thunder and rain. 7th, lightning and rain. 13th, lightning. 16th, thunder. 17th, lightning and thunder. Rain on 2nd, 4th, 5th, 7th, 8th, 17th, 18th, 21st, 22nd, and 23rd. Barometer very steady during month; on 10th, at 1 p.m., 29.340.

BELEVILLE.—On 5th, thunder storm with lightning and rain at 1 a.m. 6th, thunder storm with rain between 1 and 4 a.m. 8th, (Sunday) lightning, thunder and rain. 13th, lightning and thunder between 2 and 3 p.m. with gentle rain. 18th, distant thunder in N.W. very dark and chain lightning very vivid, pulsations 25; at 9.40 the cloud had passed towards N.E., and while the play of the lightning among the lower clouds was incessant, the great flashes from the passing cloud were at intervals of 3 or 4 minutes, pulsations 45. Wind still W. but velocity reduced to 1; at 9.45 clouds disappearing, flash still seen, thunder inaudible, no wind; at 9.55 p.m., cloud scarcely visible, and at 10 quite clear. On 12th, the observer being at Mount Pleasant, latitude about 43° and longitude 80°15', describes a brilliant and very peculiar appearance of the sky at sunset, 7.40 p.m.; on same evening at 9.30 observed an aurora in two distinct arches, the lower about 5° above horizon and 5° wide at the north point; extremities about 30° apart; the higher arch, about 20° high, extended about 50°, and 10° wide; at first the higher arch was defective in N.E. but complete in 15 minutes; at 10.10 p.m., appearance the same; at 10.30 higher arch had disappeared. The lower arch continued the same till 11 p.m. when it was last observed. On 13th, morning clear, very warm, wind S.W., velocity 1; at 9.30 a.m. wind rose and cumuli appeared in S.W.; wind, heat and clouds increased; at 1 p.m. clouds more about horizon; at 2 p.m. cumuli moving fast, cumuli more distant and stationary; wind continued high in the afternoon; at 5 p.m. wind lessened to velocity 3, and at 6 p.m. had changed to S., and fallen to 1; thunder now heard in N., dense cumuli in N. at horizon; storm passed to north; 7 p.m., wind S., gentle breeze, very distant thunder in N.N.W.; at 9.30 lightning and thunder passed to N.; at 10 p.m. lightning still in N.E. On 14th, heat, clouds, wind and force much the same; also on 15th; till 4 p.m., when clouds more dense in S.W.; at 5 p.m. thunder in S.W.; at 6.30 p.m. lightning, thunder and rain for 30 minutes. 16th, very warm, wind and clouds as above; thunder at 4.40 p.m. followed by rain at 6.15 p.m. 17th, heat, clouds and wind much the same, at 5 p.m.