

few years, and less frequent observations for many years, in order to furnish corrections for diurnal and non-periodic variations at intermediate stations.

V. To supply materials requisite for the study of storms, correspondents should fill up and promptly return the forms specially sent for the purpose.

Some of the meteorological statistics for the year ending 31st of May, 1869 will now be given.

CLIMATOLOGICAL STATISTICS OF CANADA, For the Year ending 31st May, 1868.

By G. T. KINGSTON, M.A., Director of the Magnetic Observations, Toronto,

The following Tables embrace results from a few points of observation in Ontario Quebec, New Brunswick, and Nova Scotia. It is hoped that their number will be greatly increased before the next issue of the Year Book.

The Tables have been limited to temperature, and the fall of rain and snow. Barometric Tables and others, though very important in a meteorological sense, would occupy too much space; and hence the elements that are of the greatest practical utility have been alone considered.

The results for Montreal, Quebec, and Halifax, are from MS. papers kindly supplied by Dr. Smallwood, Captain Ashe, R.N., and Dr. M'Kinnon, the Staff-Surgeon-Major at Halifax.

Those for St. John's, New Brunswick, are from newspaper reports of observations made by G. Murdoch, Esq., C.E.; and the results from the Grammar School Stations are extracted from the printed abstracts in the Ontario Journal of Education.

The mean temperatures, in every case, are uncorrected for diurnal variation. They are the arithmetic means of the observations made at the hours named below:—

Montreal - - -	7 A.M.	2 P.M.	9 P.M.	
Quebec and Halifax	Daily maxima and minima.			
St. John's	6 A.M.	2 P.M.	9 P.M.	
Grammar Schools	7 A.M.	1 P.M.	9 P.M.	
Toronto	6 A.M.	8 A.M.	2 P.M.	4 P.M.
			10 P.M.	and midnight.

There are two leading purposes for which climatic statistics for a single year are useful. One of these is to supply the materials which, as they accumulate from year to year, may form the groundwork on which general conclusions respecting the climate of the country may be based; and the other to furnish measures of the climatic condition of the year, both as a whole and with reference to its several parts.

To carry out this second purpose effectually, it is needful not only that the values of each element under consideration should be given *absolutely*, but also that they should be compared with the normal or standard values derived from the observations of several years.

As most of the Stations have been in operation a very short time, such comparison this year has been possible only to a limited extent.

Mean Temperatures of the several months for certain Stations in Canada, from June, 1868, to May, 1869.

The Stations are arranged in the order of their latitudes:—

Station.	Latitude.	Longitude.	Height above Sea Level.	1868.							1869.				
				June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	May.
				o	o	o	o	o	o	o	o	o	o	o	o
† Windsor, Ont. - - -	42 20	5 32	630	66.3	78.0	69.0	*	46.2	38.2	23.8	31.7	28.5	26.1	44.6	54.7
† Simcoe - - - - -	42 51	5 21	716	63.2	75.4	64.5	55.2	42.1	34.1	23.4	29.2	26.5	24.5	42.7	53.7
† Hamilton - - - -	43 12	5 19	324	64.9	80.0	70.4	58.2	43.5	37.2	23.5	30.7	26.6	25.4	42.2	53.3
† Stratford - - - -	43 25	5 24	1182	62.2	75.0	66.1	54.5	41.0	34.2	20.6	26.2	23.7	20.8	39.5	51.0
† Toronto - - - - -	43 39	5 18	342	62.0	75.8	67.2	56.6	42.4	36.2	22.5	27.7	25.0	23.1	40.0	50.8
† Goderich - - - -	43 45	5 27	715	60.2	74.5	67.5	57.2	43.8	36.6	24.5	29.2	25.8	21.1	39.8	50.4
† Belleville - - - -	44 10	5 10	307	64.9	77.1	68.9	57.6	41.6	33.8	18.2	25.8	22.8	23.0	40.8	53.3
† Peterborough - -	44 20	5 14	629	65.7	77.5	67.8	55.0	39.8	32.2	17.8	23.3	20.3	21.1	39.9	54.0
† Barrie - - - - -	44 25	5 19	779	63.8	75.3	67.6	56.2	*	34.2	20.9	27.4	22.6	22.7	39.1	52.6
† Halifax - - - - -	44 44	4 14	125	59.7	65.9	65.1	60.0	46.3	35.9	25.5	23.5	27.1	27.7	39.7	47.7
† Cornwall - - - - -	45 00	4 59	176	67.7	76.5	69.2	58.5	*	*	*	2.2	19.8	29.4	41.0	54.3
† St. John, N.B. - -	45 10	4 24	135	52.6	59.0	58.1	54.2	41.9	32.4	21.8	20.2	24.7	26.1	38.5	46.6
† Montreal - - - -	45 39	4 54	182	66.4	76.0	69.9	57.9	44.8	33.3	16.0	20.1	19.4	24.1	41.0	53.0
† Pembroke - - - -	45 50	5 09	400	65.6	75.1	66.1	54.8	39.6	30.2	11.8	18.4	14.8	16.8	36.5	51.0
† Quebec - - - - -	46 49	4 45	327	66.3	74.0	66.1	54.7	40.0	28.5	13.2	15.6	17.4	19.0	37.8	49.5

The asterisk * in this and other Tables shows that the proper number cannot be given, for want of suitable materials.

The Ontario Grammar Schools are indicated by †