MONTHLY MEANS OF TEMPERATURE DEDUCED FROM OBSERVATIONS MADE AT UPPER CANADA COLLEGE, TORONTO, BY THE REV. C. DADE. IN THE YEARS 1830-41.

	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1831 1832 1833 1834 1835	0 22°1 35°4 27°8 20°0 24°9 23°9	20.3 30.3 18.0 16.8	36.9 31.5 29.3 32.1 31.4 25.3	0 43 4 39 9 46 7 45 3 40 8 39 4	0 52 7 49 9 56 8 53 2 55 4 52 4	67.5 64.1 60.3 61.5 62.7 60.3	67.0 67.8 67.7 71.0 67.2 68.7	65°2 67°6 62°0 62°2	57 6 51 6 52 2 50 5	46.5 47.9 44.9 42.6 48.0 38.8	36.7 36.5 34.1 35.5 36.0	16.1 32.2 31.2 25.7 22.9 25.9
1837 1838 1839 1840 1841	19.4 28.5 19.0 25.5	22°2 14°7 30°6 25°1	26.7 36.1 34.2 31.3	39°3 36°7 44°3 41°9	48.6 48.7 55.8	62·2 66·4 	65'3 71'4 67'0 69'0	62'3 68'3 64'0	55.8 59.3 54.2 56.2	42.6 50.1 46.2	37.0 35.3 37.5	28·3 30·2 24·6
General Means Annual Variat'rs	24 .90	21.22	31.40			+18.83						26·07

COMPARATIVE TABLE FROM OBSERVATORY RECORDS.

Monthly Means.

July,1842 25.32 23.27 29.80 42.63 52.91 60.68 65.99 65.76 57.59 44.20 36.24 1859-68. 21.68 23.64 29.97 41.09 52.09 62.01 67.91 65.96 57.25 46.29 37.24	July,1842 Jne, 1848 1859-68. 21.68	23.27	29°80	42.63 52.0 41.09 52.0	60.68	65.99	65·76	57 · 59 57 · 25	44 20 46 29	36°24 37°24	27°4 24°8
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Annual Variations.

1842-48	-19.00	—21°05	14.22	—1·69	+8.59	+16.36	+21.67	+21 .44	+13.57	-0.15	-8·08	- 16·88
1842-48 1859-68	22.48	20°52	-14.19	-3.04	+ 7 ·93	+17.85	+23.75		+ 13 09	+2.13	-6.92	—19.30 (*)

It is not pretended that the numbers in the table formed from Mr. Dade's records can be regarded strictly as a continuation backwards of the observatory series. The difference in the mode of exposing the thermometers, as well as in the general character of the two localities, would alone occasion considerable disparities, not only in single readings, but in the means of single months. Moreover, the mode of dealing with the observations, although the most suitable and convenient that presented itself for adoption under the very peculiar circumstances, is not sufficient to render the several partial and general results the same as they would have been if the readings had been made at more suitable hours

and with equal frequency on every day.

On comparing the older and later series it will be found that the general (†) annual mean from all Mr. Dade's observations is 44°-26, a number identical with the general annual mean given by the six years—July, 1842, to June, 1848,—and differing by only about one-tenth of a degree from the general mean of 29 years.

mean of 29 years.

Another point worthy of notice is the greater difference by which, in 1831-41, the January mean exceeds the mean of February. In the Year-Book for 1870, attention was called to the fact that the winter has been becoming progressively earlier, and that February has gradually given place to January as the coldest month. On page 168, this was shewn by comparing the temperatures of the two months in groups of five years.

To explain the connection the comparison is here repeated:—

Now, from 1831 to 184x we find January warmer than February by 3°7, and by breaking these years into two portions, we further find that from 1831-35 January was warmer than February by 4°6, and 1836-41 January was warmer than February by 2°6, so that, as far as the testimony of these observations is concerned, the progressive change existed further back, and was still more rapid, 40 years ago.

OBSERVATIONS AT STRATFORD, ONTARIO, BY J. C. MACGREGOR, M.A.

Mr. Macgregor, Head Master of the Grammar School at Stratford, and Meteorological Observer, in connection with the Board of Education for Ontario, has kindly placed at my disposal the results (as far as he has obtained them) of an investigation which he has undertaken relative to the climatology of his station, and founded on the observations of nine years—1861-69. From the monthly means of temperature for each of his three hours of observation, 7 a.m., 1 p.m., 9 p.m., and for these three hours

(†) The annual means in single years are not given on account of the omission of certain months.

^(*) It may be noticed that the annual variations of temperature, 1842-48, given above, are not identical with those in Table VI, p. 166 of the Year Book for 1870. In that place the whole series of years was employed, while in the above tables the progressive modification in these variations is exhibited.