

	June.	July.	Aug.	Mean.
Moose Fort....	deg. 54.0	deg. 62.0	deg. 58.5	deg. 58.2
San Francisco.	58.8	67.0	62.3	59.6
Edinburgh....	56.0	67.7	56.8	57.2
London, Eng..	58.7	62.4	62.1	61.1
Wick, Scotland				54.0
Truro, N.S....	57.1	62.8	62.5	60.8
Prince Arthurs Landing....	56.9	64.8	63.1	61.6
Beatrice, Mus- koka.....	59.5	65.7	61.8	62.3
Winnipeg....	63.9	67.5	63.9	65.3
Edmonton....			54.4	
Fort Saskatch- ewan.....			56.8	
Toronto.....	63.3	69.4	68.0	67.5
Windsor.....	67.5	73.7	71.0	70.7

**THE LIMIT OF PROFITABLE WHEAT FARMING.**

Wheat requires for its ripening in Scotland a mean temperature for three months of at least 55 degrees, and in the interior of continents a temperature a few degrees higher, so as to counterbalance the effects of the chillier nights occasionally experienced inland. It would, therefore, appear that although wheat would easily ripen and produce a good crop some years at Moose Fort, the mean temperature of the place might render it a rather precarious and not very profitable crop. Moose Factory, however, is surrounded by low, wet, cold clayey soil, and exposed as well to the cold winds from the bay. Beyond doubt the inland, valleys with their warmer soil have a temperature in many localities as favorable for wheat growing as some parts of England and Scotland, where it is a staple crop.

**OATS AND BARLEY CERTAIN CROPS.**

The average temperature required for wheat is at least five degrees greater than is required for barley and oats. These crops succeed far up the Mackenzie River, beyond the Arctic Circle in Norway, and the northern counties of Scotland, where the summer mean is only 52° to 54°, and the month of June is sometimes as low as 48°, or 6° lower than Moose Factory. Oats appear to be as sensitive to frost as wheat, and if it can be shown that the climate of Moose Factory compares well in exemption from frosts with localities where oats succeed well, the general high temperature of the summer months will guarantee the full success of the wheat and barley crops in the James' Bay region wherever a proper style of farming is pursued.

**CONTINUOUS EXEMPTION FROM FROST.**

Taking the average dates of the occurrence of the last temperature of 32° in spring and the first fall to the freezing point in the close of summer, we find the following to be the average periods of continuous exemption from black frost for three years, 1878-80:

	Last 32 deg.	First 23 deg.	Continuous Exemption
Moose Fort .....	June 6	Sept 26	112 days
Winnipeg .....	May 14	Sept 15	129
Prince Arthurs Landing.....	June 2	Sept 13	101
Beatrice, Ont.....	June 6	Sept 7	93
Pembroke, Ont.....	May 15	Sept 25	136
Hamilton, Ont .....	Apr. 17	Oct 20	186

From this it will be seen that Hamilton and Pembroke far excel Winnipeg in exemption from damaging frosts, yet the exemption at the Prairie capital allows of the growth of not only oats, barley and wheat, but even of Indian corn. Beatrice, Muskoka, grows with profit all the grains excepting corn, yet it has a continuous period of exemption from frost nineteen days shorter than Moose Factory.

(To be continued in our next.)

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