

wise of the Great Manitoulin Island, passing just south of the Sault Ste. Marie and along near the southern shore of Lake Superior, and from thence on through the state of Wisconsin, on its western course. The portion of Ontario south of this line contains a greater area suitable for fruit growing—apples, pears, plums and grapes—than can be found in the whole of Europe. Climate, however, depends as much on altitude as on latitude, and here again but little difference exists between the altitude of Europe and Ontario.

But the isothermal line of 65° of mean summer temperature does not mark the northern limit of apple culture. There is good reason to believe that apples may be grown where the sugar maple thrives, and certainly as far north as the northern limit of basswood growth; an acquaintance of mine has a good bearing orchard several miles north of Sault Ste. Marie. The isotherm of 65° before referred to, passes through the Township of Minden, about 120 miles further north than Toronto, where the apples were grown which were referred to on page 13 of the *Canadian Horticulturist* for January last. Two years ago I exhibited seedling apples at our autumn meeting which had been grown north of Minden, which were as large and as well colored as the "Alexander." The town of Pembroke visited by Professor Saunders last autumn, where he found such excellent apples, is about 170 miles further north than the city of Toronto.

If a few varieties of apple trees can thus be grown so far north under the present system of obtaining supplies, when all scientific or expert knowledge is ignored, and when thoughtlessness and personal greed seems to be the guiding motives, what may be expected when more thoughtful, but simple and more common sense plans shall prevail? I believe the time is not far distant when most of our best varieties may be grown wherever basswood flourishes, which is about 100 miles north of the isothermal line mentioned, provided seedling trees be grown from seeds procured from apples from the nearest point where healthy trees exist; varieties need not be considered, healthiness of the tree from which the seeds are obtained must be the only standard. Seedling trees thus produced should be planted out in the ordinary orchard where they are to remain, when two years old, in thoroughly prepared soil, and top-grafted with the varieties required as soon as a good root growth is obtained. By such a plan no tree need be out of the ground for an hour. An orchard will be secured in this manner for less than one-tenth the cost incurred by the present absurd system of procuring budded or grafted trees six or eight feet high from nurseries situated from 100 to 200 miles south, and where the soil and climate are altogether different; and especially when the trees have been out of the ground for six or seven months as is usually the case.

I venture once more to press upon this Association the necessity of preparing and publishing a list of apple trees suitable to the requirements of the principle apple-producing sections in Central and Northern Ontario. I do this because—as far as my experience goes—this information is required above every other thing in relation to this subject by the whole farming community. Publishing a list of varieties prepared by a gentleman of Vermont, who can have had but little practical knowledge of the requirements of this, the greater portion of Ontario, even when assisted by Wisconsin nurseryman, and especially when it contains so many absurdities, will not satisfy the farmers of Ontario who are taxed for the support of this Association and have a right to expect, and do claim the publication of such lists as are referred to, and also that they be prepared by the best practical talent at the command of this Association.

The following list of apples as suitable for growing in Central and Northern portions of cultivated Ontario, is submitted for the consideration of any person or committee which may be appointed by this Association to prepare such a list:

For summer: Red Astrachan, Yellow Transparent. For autumn: Duchess of Oldenburgh, St. Lawrence, Alexander, Fameuse, Haas, Colvert. For winter: Yellow Bellefleur, Ontario, Wealthy, Northern Spy, Golden Russet, Ben Davis, Canada Red, R. I. Greening. And the following I would recommend to farmers and others who wish to grow apples for their own family use only, viz.: Red Astrachan, Duchess of Oldenburgh, St. Lawrence, Colvert, Fameuse, Yellow Bellefleur, Ontario, Golden Russet. This list will furnish a continuous supply of apples from the middle of August to the middle of the following April.

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