

climate over a favorable region of great extent; and, upon the recession of glaciation to the present limit, or in the oscillations which intervened, there was no physical impediment to the adjustment. Then, too, the more southern latitude of this country gave great advantage over Europe. The line of terminal moraines, which marks the limit of glaciation rarely passes the parallel of 40° or 39°. Nor have any violent changes occurred here, as they have on the Pacific side of the continent, within the period under question. So, while Europe was suffering hardship, the lines of our Atlantic American flora were cast in pleasant places and the goodly heritage remains essentially unimpaired.

The transverse direction and the massiveness of the mountains of Europe, while they have in part determined the comparative poverty of its forest-vegetation, have preserved there a rich and widely distributed alpine flora. That of Atlantic North America is insignificant. It consists of a few arctic plants, left scattered upon narrow and scattered mountain-tops, or in cool ravines of moderate elevation; the maximum altitude is only about 6,000 feet in lat. 44°, on the White Mountains of New Hampshire, where no winter snow outlasts midsummer. The best alpine stations are within easy reach of Montreal. But as almost every species is common to Europe, and the mountains are not magnificent, they offer no great attraction to a European botanist.

Farther south, the Appalachian Mountains are higher, between lat. 36° and 34° rising considerably above 6,000 feet; they have botanical attractions of their own, but they have no alpine plants. A few subalpine species linger on the cool shores of Lake Superior, at a comparatively low level. Perhaps as many are found nearly at the level of the sea on Anticosti, in the Gulf of St. Lawrence, abnormally cooled by the Labrador current.

The chain of great fresh-water lakes, which are discharged by the brimming St. Lawrence, seems to have little effect upon our botany, beyond the bringing down of a few northwestern species. But you may note with interest that they harbor sundry maritime species, mementoes of the former saltiness of these interior seas. *Cakile Americana*, much like the European Sea Rocket, *Hudsonia tomentosa* (a peculiar Cistaceous genus imitating

a Heath), *Lathyrus maritimus*, and *Ammophila arenaria* are the principal. *Salicornia*, *Glaux*, *Scirpus maritimus*, *Ranunculus Cymbalaria*, and some others may be associated with them. But these are widely diffused over the saline soil which characterizes the plains beyond our wooded region.

BARLEY meal or barley soaked in cold water will increase one-third in bulk, and by cooking will swell out considerably more. There is no doubt that when thus treated it gives much more nutriment than meal in its dry state.

A SUPPLY of lime and gravel should be kept in the henhouse during the winter. A good deal of small gravel will be eaten by fowls, the stones in their gizzards helping to grind the food and make it more digestible. The lime is best given in the shape of oyster or clam shells slightly burned and then pounded into fine pieces.

Advertisements.

Resolution of Provincial Board of Agriculture,
3rd March, 1882.

"No advertisements, except official notices from recognized Agricultural Societies, shall be inserted in the JOURNAL OF AGRICULTURE in future, unless PREPAID at rate of 50 cents each insertion for advertisements not exceeding ten lines, and five cents for each additional line."

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BY the Strathlorne Agricultural Society FIVE Thorough-bred Bulls, age about 2 years next May. Short-horn Durham and Ayrshire preferred. Parties having Bulls for sale will please state prices, &c., &c.

A. J. GILLIS, Secretary.
Gillivale, Inverness Co., 21st Feb., 1885. mch

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