

Education in forestry and allied subjects and opportunities for research are offered by four Canadian universities and by other agencies. The University of Toronto, the University of New Brunswick at Fredericton, and the University of British Columbia at Vancouver, provide four-year courses leading to a professional degree. The School of Forestry and Surveying, in connection with Laval University at Quebec, provides in the French language a combined course of four years' duration, leading to diplomas in both sciences. The Government of Quebec has established a school in paper-making at Three Rivers in the heart of the paper industry; several agricultural colleges provide short courses in farm forestry, and a school for forest rangers has been established in Quebec.

The practice of forestry by individuals and private concerns is encouraged by the furnishing of expert advice by Dominion and provincial services and by the distribution of tree-planting material. The Dominion Forest Service maintains two nurseries in Saskatchewan, one at Indian Head and the other at Sutherland, near Saskatoon. From 6,000,000 to 7,000,000 trees are distributed annually to farmers and ranchers in the Prairie Provinces for planting woodlots and wind-breaks. If certain conditions are fulfilled, the material and instructions are provided free except for transportation charges.

The province of Ontario provides material under similar conditions, and distributes at least 7,000,000 trees annually from its six nurseries. To encourage the establishment of communal forests by towns and other municipalities, the Provincial Government undertakes to plant free of charge any area purchased by the municipality for this purpose. Farm land used for forestry purposes, while so used, is exempt from taxation up to 10 p.c. of total farm area, but not exceeding a total of 20 acres.

In Quebec, a forest nursery at Berthierville serves as a demonstration station for the School of Forestry and as a forest ranger school. It provides about half a million trees for sale and distribution in the province annually, comprising seedlings and transplants for forest planting, and larger trees for ornamental purposes. The capacity of the nursery is being raised to 5,000,000 trees. Provision is made by legislation for the creation of communal forests, and there are now 38 of these.

## 6.—Forest Utilization.

The clearing of forest land was the primary step toward the settlement of Eastern Canada by the early pioneers. The material so removed was at first more than sufficient for building purposes, fencing and fuel. In many cases logs and clearing *débris* were burned in order to get them out of the way. Later on, inroads were made into the forest surrounding the farms and settlements to supply these needs, and lumbering as a business developed gradually as the settlements extended, the demand increased and the supply receded. The industry, which started in the lower St. Lawrence valley and Maritime Provinces, spread northward and westward during the period of rapid advance in settlement.

The Ottawa valley became the first important centre of commercial activity in the industry, with the rafting of square timber to Quebec for export. The Georgian Bay and Rainy River districts were later opened up, and although the industry is now established over the entire Dominion these districts are still the chief lumbering regions in Eastern Canada. Lumbering in the north of the Prairie Provinces has progressed with the colonization of this region, but the production does not usually exceed the local demand. Exploitation of the extensive forests of