

ing by further data. These so far are based on complete stem analysis. Regeneration studies, to determine what new growth has followed clear cuttings, and partial cuttings, and old burns, have been made. A number of sample acres have been laid out for permanent observation, and have been logged in various ways, different diameter limits, etc., with a view to finding out whether any logging system which will give a better second crop, is commercially feasible in the pulp business. This study will take some time, but seems the only way to get really reliable data, necessary for determination of policies.

### Burning of Slash.

Burning of slash in spring will, from observations made on burns, give a better proportion of spruce than is obtained by clear cutting and leaving brush to rot. Burning during logging seems to be more expensive; broadcast burning in early spring, when fire will scarcely run between the piles, gives results that promise well.

The hardwood problem is less serious here than on the mainland. White birch is the only hardwood, and hardly ever forms a pure stand, the natural types being mostly coniferous. Budworm injury has not been reported in the colony.

In logging, considerable progress has been made in close utilization, through cutting stumps low, and leaving no merchantable wood in tops. Practice usually will compare favorably in this respect with that in vogue in pulpwood cutting on this continent.

At the present time, no branch of forest investigation promises larger returns than studies directed towards solving problems of management of pulpwood lands for permanent use. In starting work on these problems, one is struck by the lack of practical, exact knowledge so important to the permanence of the pulp and paper industry. This industry should be a permanent one in Eastern Canada, and its importance in maintaining the prosperity of that section can scarcely be over-estimated.

### PIGEONS AS FIRE MESSENGERS.

Carrier pigeons used in fire protection on the forests in Oregon and Washington is the latest. Forest Examiner W. J. Sproat will inaugurate the experiment on the Deschutes Forest. He has five pairs of birds. Similar experiments will be tried on the Cascade. The plan is to use the pigeons as a means of communication in emergencies and for carrying fire reports.

### SEED TIME AND HARVEST.

(*Brockville Recorder*)

"It is sometimes argued that we do not need to concern ourselves about the forests of the future because the forests we now have will last us for 50 or 100 years, or even longer; that it is futile to worry about the matter, so long as we have wood. Of course, it is possible to estimate the length of time our present supply of timber will hold out, assuming certain fixed domestic and foreign demands (demands, incidentally, which are by no means fixed). This question has no direct bearing on the problem of keeping forest lands productive. Let us suppose, for example, that under certain estimated demands our present forests will last us for a hundred years. That is no reason at all why we should allow cut-over lands to become wastes or near-wastes. In the first place, it takes a hundred years, let us say, for a seedling to grow into a respectable tree, fit for the saw. The trees we are now cutting are, on the average, much older. The time to start our new forests, therefore, is now—not a hundred years from now—for otherwise we should have a long period during which we should be without adequate supplies of timber."

### GOOD WORK BY ROYAL BANK.

Many a helping hand is being extended these days to further the cause of forest protection. The Royal Bank of Canada has gone to much trouble and expense in issuing a large quantity of attractive blotters bearing the following legends:

#### CANADA CANNOT AFFORD FOREST FIRES!

Most forest fires are caused by campers and settlers. Light a small camp fire on rocks, gravel, or sand, never against a tree or in a dry bog. Put the fire out completely. Leave nothing smouldering. Never throw away a match or cigarette end when in or near a stand of timber.

#### CANADA HAS NOT ONE ACRE OF COMMERCIAL TIMBER TO SPARE!

With the Compliments of  
THE ROYAL BANK OF CANADA.

#### CANADA CANNOT AFFORD FOREST FIRES!

Make yourself a "Deputy Fire Ranger" whether in the woods this year for business or for pleasure and help to check the fire waste.  
Three quarters of a billion dollars' timber loss since Confederation!

With the Compliments of  
THE ROYAL BANK OF CANADA.