Trees as Snow Guards

Railways Planting Trees to Protect Lines from Drifting Snow and Sand

taking an increasing interest in the two rows of caragana four to six planting of trees and shrubs to feet apart. On several situations secure better control of drifting one row of caragana was planted. snow and drifting sand, both of which interfere seriously with the is the best tree that can be used for operation of trains.

East of Montreal near Vaueluse,

ed to rolling stock and passengers effective as a snew break alone in suffered from dust. The ordinary five years. right-of-way fence was covered by the sand, and cattle could stray out on the track. Snow fences were its present height ought to provide covered up.

In 1915 a number of grasses, including Brome, were planted but quick growth and beautiful foliage. perished from the heat, which is excessive on these exposed sand of cottonwood (Populus deltoides) and 1,000 one-year transplanted improving the grounds.—B.M.W. jack pines were planted. An examination made after the trees and cuttings were in the ground a month showed that approximately 95 per cent were making good pro-

The cottonwood was placed in rows two and one-half feet apart, the distance between the rows being four feet. The jack pine was planted in rows six feet apart, distance between the rows five feet. The distance from the last row to the centre of the track is about 150 grain sown on their farms. track.

It is hoped that the vigorous growth of the cottonwood will protect the jack pine until such time as the latter can take care of itself. If the results prove satisfactory, other situations along the company's line will be planted in the near future. The unusual amount of rain which has occurred this spring and early summer has contributed very materially to the prospects of success.

For a permanent snow fence which would grow rapidly and very little excuse for the prevahave sufficient foliage, 6,000 Norway spruce and 15,000 caragana were planted. The former were lives within reach of some farmer five-year transplants, of from 20 to who grows a known sort of proved 24 inches height, of heavy sturdy excellence, from whom seed can be crown and well-developed root system. The caragana were from 30 tain seed for next year should arto 48 inches in height and about range for it early and choose a three years of age. The caragana, as well as 1.500 lilacs used in mixture for snow breaks, are from the nursery of the company at Wolseley, Sask.

distance from the track to the right- application .- F.C.N.

of-way fence is over 50 feet, a "standard" break was put in, viz., one row of spruce was planted 8 feet apart, and in front of this, caragana were placed two and one half feet apart. The distance between the rows is 6 feet. If there was only 50 feet between the track and the fence, one row of Norway The railways of Canada are spruce was planted 6 feet apart, or

The open-grown Norway spruce snow breaks in eastern Canada. It is of rapid growth, is comparativein Quebec, light drifting sand has ly free from enemies, and branches given trouble to the Canadian Paci- close to the ground. It will require as since the very thin sod protection from fire. It is expectwas plowed up. Hot boxes result- ed that the Norway spruce will be

Caragana arborescens, the Siberian pea tree, when well trimmed, at used to some advantage, but in a a good mesh for snow break the bad season these would be almost second year after planting. Caragana is hardy, free from insect activities, not attacked by cattle, of It sprouts well.

At some of the company's stabeds. This spring, 3,500 cuttings tions, spruce, caragana and lilac were used for wind break and for

Varieties of Grain

Farmers Should Know the Names of Seeds They Sow

Twenty per cent of the 400 farmers visited in the Agricultural Survev in Ontario in 1915 did not know the name of any variety of feet. All the planting parallels the Dundas county, where 100 farms were visited, of a total of 86 farmers growing barley only 11 knew the variety grown. Fiftytwo per cent of the 400 farmers visited in the province were growing barley and only 18 per cent knew the name of the variety.

Only 64 per cent of all the farmers visited knew the name of the variety of oats they were sowing. Those who do not know the variety used may be sowing grain unsuited for their farms. There is lence of such conditions. farmer sowing an unknown grain obtained. Farmers wishing to obvariety which has been tested and proved to be good. The Central Experimental Farm at Ottawa and the various Agricultural Colleges have carried on such tests for the The following methods of plant- benefit of farmers, the results of

Making Use of Untillable Land

Most Farmers Have Land Which Could be Used for Sheep Raising

thumberland and Waterloo possess The average amount per woods. having such, ran as high, in one county, as 53 acres; the lowest aver-

ers visited kept sheep. In one county only four farmers among the 100 visited were keeping sheep, averaging only four to each of the four farms. county, on 72 of the 100 farms the Perthius seignory, which purvisited, there were over 1,000 acres chased 50,000 young trees. This is of untillable land and only 16 the sixth year during which plant sheep, when there might well have material has been secured from the been 16 sheep on each farm. class of live stock is so well able on this seignory. The balance of as sheep to turn to good account unter 400,000 total was disposed of tillable and otherwise waste land. It has been well demonstrated by Gradually, the necessity for plantexperiments that the keeping of a ing is becoming recognized, to sesmall farm flock headed by a pure cure the re-establishment of the bred ram is a profitable undertaking. They need very little care and yield two crops a year—lambs and wool. Expensive buildings are not necessary, as sheep require only to be kept dry and protected from stormy weather, with a little extra care at lambing time.

Fewer bad weeds would be found on Canadian farms if more sheep were kept, as sheep will eat almost all classes of weeds.

Every Canadian farmer is not urged to go into sheep husbandry. but much idle land could and should be utilized as sheep pasture. It will pay. Those interested should write to the Ontario Department of Agriculture, Toronto, for bulletin No. 214, or to the Sheep Branch of the Dominion Department of Agriculture, Ottawa, for the splendid bulletins published on its aesthetic greatly exceeds its various phases of the sheep indus- monetary value. In the transfer of try.-F.C.N.

HOW TO PREVENT FIRE

terial and vubbish eleaned up. Make frequent personal inspections from a fire standpoint.

standard, and be careful in the use of electric devices.

winter.

perty by fire and act accordingly. the railway corporation.

QUEBEC FOREST NURSERY

The provincial forest nursery at Berthierville, Quebec, has this year shipped out 400,000 forest tree seedlings, in addition to those utilized by the forest service on Crown lands. Of these, 250,000 were sold to the Laurentide Company, for Fifty-seven per cent of the 400 planting on their property near farmers visited in 1915 by the Com-Grand mere, P.Q. This shipment mission of Conservation in the four supplements the large supply counties of Carleton, Dundas, Nor- available from the company's own nursery at Grand'mere, the capacuntillable land other than that in ity of which has been increased materially. Another progressive farm of untillable land, of those concern which is undertaking forest planting is the Riordon Pulp and Paper Company, which, age in any one county was 15 acres. like the Laurentide Company, em-Only 14 per cent of all the farm- ploys a forester, and which has purchased 20,000 tree seedlings for planting on their property in the vicinity of St. Jovite, P.Q. The third large shipment from In this particular the Berthierville nursery was to No Berthierville nursery for planting to colleges and private individuals. forest where sufficient seed trees are no longer available for natural reproduction .- C.L.

Save the Trees

More Attention Being Paid to Their Protection by Railways and Others

That the shade tree increases the value of property, and adds much to the beauty of surroundings is being more and more appreciated. Municipal corporations are encouraging the planting of trees in greater numbers, as well as protecting those they already have. Many estimates have been made as to the actual cash value of a growing shade tree, but all concede that real estate, a favourably situated shade tree will enhance the value of the property out of all proportion to the intrinsic value of the Keep waste paper, packing ma- tree. From a financial standpoint therefore, the shade trees should be protected.

Several railways are giving care-See that your electric wiring is ful attention to the trees. Not only are they protecting, by special patrols and otherwise, the forests Have all smoke-pipes and chim- along their lines, but, at no in neys inspected and properly re- considerable expense, they are propaired before starting fires for the tecting them on their rights-of-way One railway line was diverted from Be careful about the use of its originally planned route to save matches. Provide safe receptacles two handsome maple trees. Confor them both before and after use. siderable attention and much fa-Feel your personal responsibility vourable comment has been bestow ing were carried out: Where the which may be obtained free upon as to possible loss of life and pro- ed upon this considerate action of

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