# Canadian Railway and Marine World 

May, 1918

# Tree Planting for Railway Snow Fences. 

## By W. C. Palmer, North Dakota Agricultural College.

Tree planting is one of the methods of withecting railway cuts from being filled used snow. The snow fence commonly factory is expensive and not entirely satisit ofty. In a winter of heavy snowfall cut often causes more snow to stop in the the snow if there was no protection. When all right. fall is light the snow fence is Part of the Minneapolis, St.
the north and west sides, and three rows on the south and east sides; the outside row of willows, the second and third rows of cottonwoods and boxelder, and the inside row of green ash. Golden, laurel leaved, white and Niobe weeping willows were tried. Of these the laurel leaved proved the hardiest and it is the one that will be used principally in the ruture. It
of North Dakota and is very hardy. It is shrubby in growth and very much branched, and produces a fruit that is suitable for jelly making. The artemesia dies back each winter, but the stalks remain standing, and a good many of the leaves stay on, so that it furnishes good protection. It is very hardy and does well in very dry and exposed locations. The second row


Tree planting on Minneapolis, St. Paul \& Sault Ste. Marie Railway.
the The left hand illustration shows the method of preparing the right of way for tree planting, by discing the sod. The right hand illustration shows in. In this way cultivating the trees. The common and the orchard disc are run alternately, the one throws the soil out, and the other throws it Paul way the soil is kept level.
through and Sault Ste. Marie Ry. runs Snow North Dakota prairies where Section can drift for miles. Cuts in that ago the need good protection. A few years protectin officials decided to use trees in care of the cuts, and the planting and erstad, them was assigned to T. A. Hovmissioner, who company's Agricultural Com-
is also less subject to insect attack. The Niobe weeping willow gives some promise of being valuable in this work, but further trials will be needed to establish its usefulness. The plan of planting, as worked out, now consists of planting eight rows of trees on the north and west sides and six on the south and east sides, the outside row to be planted with a low grow-
will be planted with green ash or cottonwoods, that will be allowed to grow their full height. The third row will be planted with green ash or boxelder, and the remaining rows will be planted with the laurel leaved willow. These willows will be cut back periodically, one row at a time. The aim is to plant some evergreens in the second and third rows. For


Tree planting machines on Minneapolis, St. Paul \& Sault Ste. Marie Railway.
attached left hand illustration shows the planter used originally, drawn by horses. The right hand illustration shows the latest model tree planter, experi to a tractor.
ern and in growing trees in southwesttree and northwestern Minnesota. While far different to protect railway cuts is yon fret them a regular tree planta-
The the principles are the same.
and madart on the M., St. P. \& S. S. M. and made in 1914. Land was prepared Beneral plant tree combinations tried. The
ing, spreading, branching tree, or shrub, such as the willow, buffalo berry, carragana, buckthorn or artemesia. The laurel leaved willow will be used the most and will be cut back occasionally. If cut back in the spring, the new shoots will reach a height of from 6 to 7 ft by the autumn, and so furnish protection for the winter. The buffalo berry is a native

North Dakota and Montana the varieties will likely be the ponderosa pine, Black Hills spruce and white spruce.
As the tree planting is to protect cuts, most of it will be on hill tops, hill sides, and ridges, on which the soil is often sandy and gravelly. This means that the trees have to be planted on high dry spots and in the poorer soils, the most

