



Second Growth Aspen

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showing soil and ground cover, as well as a full description of each tree.

With a view to learning the effects of the various methods of cutting upon the subsequent growth of the seedlings and saplings already established and upon reproduction, numerous small plots have been selected. On each of these the small growth has all been tagged and measured. A periodic re-measurement of these should reveal the conditions which have been most favourable. The tagging of the seedlings now in the plot will facilitate the recognition of new growth on subsequent examination.

Some 5,000 Norway spruce transplants were set out in nine selected plots and the growth of these will be compared with those planted by nature.

To further broaden the field for research about ten pounds of white spruce seed was sown under a variety of conditions and sites, on top of mineral soil, and at various distances from side shade.

Unexpected Mortality

Since these problems are mainly studies of growth, results cannot be expected for some time to come. However, an unlooked for mortality has already occurred, particularly in the area cut to 10 inches, where over 10 per cent of the stand has died during the past year. These have not been wind-thrown, but apparently they have been so badly shaken by the wind that many of the roots have been injured. At these injuries, fungi have entered and completed the destruction. At the same time the

living branches have been stripped of their bark by beetles. The three sided attack has been too severe for even the hardy black spruce to withstand. To what extent the loss is attributable to any one of these agencies is difficult to say, but certain it is that the beetles have played no small part, for in many cases over 75 per cent of the branches have been injured. There is also little doubt that this infestation is largely due to the slash left at the time of the logging operation. This factor should not be underestimated when considering the vexed question of slash disposal.

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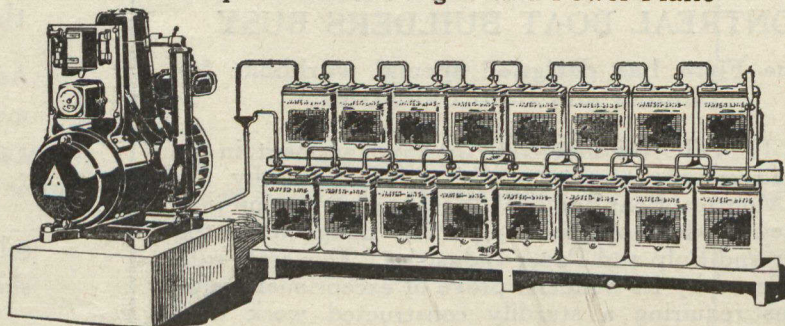
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Providing Food For Fishes

To provide natural food for trout in streams flowing through State Forests, the Pennsylvania Department of Forestry is preparing to plant along the brooks trees that will attract insects. It has been decided that shad bush, commonly called June berry, is the most desirable variety because bugs and insects will come to the white flowers which bloom in the early spring. It is expected the insects will fall into the stream and be eaten by the fish. John W. Keller, Chief of the Bureau of Silviculture, has announced the Department will collect shad bush seeds and plant them in State Forest nurseries next spring. When they are large enough, the trees will be transplanted from the nurseries to the banks of streams.

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