

large number of 852,000 *Pinus ponderosa* seedlings, which appear to be the desired type of the valuable bull-pine. The germination of *Cupressus macrocarpa* seed was unusually good. Some 120,000 plants of this variety were raised in anticipation of the continued solicitations from farmers for supplies of this shelter-tree.

Growing of Eucalypts.—Realizing the importance of hardwood-growing, each South Island station is now persevering with the propagation of the hardier species in the hope of being able to harden off and plant out the gums in fair numbers on the areas now being worked. Hitherto repeated trials with even the hardy *Eucalyptus viminalis* failed to produce satisfactory growing percentages. The initiation of the tray system two years ago, however, has simplified the question, although this method entails a good deal of extra labour. The number "pricked off" was quite insufficient to meet the requirements of farmers; but better provision will be made in view of a brisk demand for the trees next season. Pronounced success attended an experimental planting at Greenvale. An area of about an acre was ploughed and cultivated, and in October planted out in several species of eucalypts from trays. It will be interesting to discover their relative merits from a frost-resisting point of view, and compare their development with that of similar trees allocated virgin tussock land.

EXTENSION OF PLANTATIONS.

Although the acreages of plantations have not been increased to the extent anticipated, the season's work shows a decided advance on that of the preceding one. Some 2,095,450 trees were used in planting out a new area of 1,020½ acres, in addition to the utilization of a fair number of trees for-replanting purposes. In the absence of an accurate survey it is impossible to give perfectly reliable acreages of trees planted since initiation. The compilation of the table hereunder, however, has been made from past records, and, although its complete revision will be effected during the coming year, the statement submitted will nevertheless disclose somewhat effectively data relating to the planting systems followed, and averages of the various trees now under "pure" and "mixed" stands.

Acreages of Trees planted in the South Island (Pure).

	Acre.		Acre.
<i>Pinus Laricio</i>	1,614	<i>Fraxinus excelsior</i>	27¾
„ <i>ponderosa</i>	771	„ <i>americana</i>	3
„ <i>Benthamiana</i>	19½	<i>Betula alba</i>	66
„ <i>radiata</i>	1,177½	<i>Populus</i> (species)	39
„ <i>austriaca</i>	1,003¾	<i>Salix</i> (species)	7¾
„ <i>pinaster</i>	15	<i>Alnus glutinosa</i>	97¼
„ <i>muricata</i>	46¾	<i>Fagus sylvatica</i>	2
„ <i>strobilus</i>	3	<i>Eucalyptus</i>	26½
„ <i>rigida</i>	1	<i>Thuja plicata</i>	14½
„ <i>contorta</i>	½	<i>Cupressus macrocarpa</i>	8
„ <i>halepensis</i>	½	„ <i>Lawsoniana</i>	2½
„ <i>Thunbergii</i>	1	<i>Sequoia gigantea</i>	4½
„ <i>Taeda</i>	3	„ <i>sempervirens</i>	½
„ species (experimental)	2	<i>Robinia pseudo-acacia</i>	2
<i>Larix europaea</i>	2,585	<i>Quercus pedunculata</i>	7½
„ <i>leptolepis</i>	10¾	<i>Acer pseudo-platanus</i>	6
<i>Picea excelsa</i>	222½	<i>Pyrus aucuparia</i>	4
„ <i>sitchensis</i> ¹	13¼		
<i>Pseudo-tsuga taxifolia</i>	74	Total	7,882½

Acreages of Trees planted in the South Island (Mixed).

(Does not include acreages at Dumgree, Tekapo, and Waitahuna Plantations, complete records of which have not yet been ascertained.)

	Acre.		Acre.
<i>Pinus Laricio</i> and <i>P. ponderosa</i>	1,250	<i>Pinus ponderosa</i> and <i>Quercus pedunculata</i>	1¼
„ and <i>Pseudo-tsuga taxifolia</i>	140½	<i>Pinus austriaca</i> and <i>Quercus pedunculata</i>	6
„ and <i>P. Benthamiana</i>	145	<i>Larix europaea</i> , <i>Pseudo-tsuga taxifolia</i> , and <i>Fraxinus excelsior</i>	9
„ and <i>Larix europaea</i>	10	<i>Pinus austriaca</i> , <i>Quercus pedunculata</i> , <i>Acer pseudo-platanus</i> , and <i>Fraxinus excelsior</i>	1¼
<i>Pinus ponderosa</i> and <i>P. austriaca</i>	159½	<i>Pinus radiata</i> and <i>Picea excelsa</i>	1
„ and <i>P. Benthamiana</i>	42	<i>Pinus radiata</i> , <i>Quercus pedunculata</i> , and <i>Acer pseudo-platanus</i>	4½
„ and <i>Larix europaea</i>	14	<i>Picea excelsa</i> and <i>Fraxinus excelsior</i>	17½
<i>Picea excelsa</i> and <i>Fraxinus excelsior</i>	225	<i>Pinus austriaca</i> , <i>Larix europaea</i> , and <i>Betula alba</i>	23
<i>Acer pseudo-platanus</i> and <i>Quercus pedunculata</i>	88¼		
<i>Picea excelsa</i> and <i>P.itchensis</i>	62	Total	2,227¼
<i>Quercus pedunculata</i> , <i>Fraxinus excelsior</i> , and <i>Acer pseudo-platanus</i>	8½		
<i>Pinus austriaca</i> , <i>P. Laricio</i> , and <i>P. ponderosa</i>	12½		
<i>Pinus Laricio</i> and <i>Quercus pedunculata</i>	6½		

	Acre.
Areas planted "pure"	7,882½
Areas planted "mixed"	2,227¼
Total	10,109¾