

NUMBERS AND SPECIES OF TREES GROWING IN THE SOUTH ISLAND (31ST MARCH, 1913).

Name of Tree.	Dusky Hill Plantation.	Conical Hills Plantation.	Waitahuna Plantation.	Gimmer- burn Plantation.	Survey Paddock Plantation.	Naseby Plantation.	Hanmer Springs Plantation.	Dungree Plantation.	Raincliff Plantation.	Total.
<i>Acer pseudo-platanus</i> ..	105,000	164,671	400	..	..	..	400	..	..	270,471
„ <i>saccharum</i> ..	350	2,575	125	..	..	..	..	..	..	3,050
<i>Aesculus hippocastanum</i> ..	1,800	..	..	..	..	..	..	..	..	1,800
<i>Alnus glutinosa</i> ..	8,750	42,750	1,200	..	..	..	67,460	..	..	120,160
<i>Betula alba</i> ..	25,000	108,125	4,300	..	5,960	..	26,215	9,000	..	178,600
<i>Castanea vesca</i> ..	2,050	..	..	..	..	..	..	..	..	2,050
„ (<i>in situ</i>) ..	6,200	..	..	..	..	..	..	..	..	6,200
<i>Catalpa speciosa</i> ..	27	..	..	..	..	..	..	..	..	27
<i>Corylus avellana</i> ..	480	..	..	..	..	..	..	..	..	480
<i>Cotoneaster Simmondsii</i> ..	1,800	..	..	..	..	..	..	..	..	1,800
<i>Cupressus Lawsoniana</i> ..	..	..	..	..	..	..	300	..	..	300
„ <i>macrocarpa</i> ..	..	360	..	..	..	..	..	..	..	360
<i>Cytisus laburnum</i> ..	2,500	10,175	..	..	..	..	..	..	..	12,675
<i>Fagus sylvatica</i> ..	..	4,250	..	..	..	..	..	..	..	4,250
<i>Fraxinus americana</i> ..	7,800	4,025	..	..	..	..	..	..	..	11,825
„ <i>excelsior</i> ..	201,000	371,300	700	..	..	..	..	..	..	573,000
<i>Griselinia littoralis</i> ..	2,100	..	..	..	..	..	..	..	..	2,100
<i>Juglans regia</i> ..	13,000	20,080	..	..	..	..	..	..	..	33,080
<i>Larix europaea</i> ..	470,000	3,090,300	10,010	34,905	16,000	187,254	2,577,830	205,000	..	6,591,299
„ <i>leptolepis</i> ..	2,600	..	..	..	..	..	..	..	..	2,600
<i>Picea alba</i> ..	1,350	..	..	..	..	..	..	..	..	1,350
„ <i>excelsa</i> ..	202,000	815,525	3,300	..	..	..	63,395	..	..	1,084,220
„ <i>sitchensis</i> ..	85,000	63,375	..	..	..	..	33,880	..	..	182,255
<i>Pinus austriaca</i> ..	275,000	453,125	3,200	112,821	232,514	30,360	786,295	105,000	..	1,998,315
„ <i>Benthamiana</i> ..	25,000	59,770	..	..	9,180	75,764	56,400	12,000	..	238,114
„ <i>canariensis</i> ..	..	..	..	..	..	..	..	200	..	200
„ <i>contorta</i> ..	..	..	..	..	..	..	1,000	330	..	1,330
„ <i>halepensis</i> ..	..	325	..	..	..	..	..	1,600	..	1,925
„ <i>insignis</i> ..	500	25,458	..	..	200	..	10,800	600	..	37,558
„ <i>Jeffreyi</i> ..	100	25	..	..	..	..	150	..	..	275
„ <i>Laricio</i> ..	380,000	1,719,188	1,800	..	40,000	965,055	1,192,720	160,000	..	4,458,763
„ <i>maritima</i> ..	9,800	1,250	..	..	..	..	..	..	..	11,050
„ <i>muricata</i> ..	3,200	12,050	1,500	..	..	..	35,200	11,000	..	62,950
„ <i>ponderosa</i> ..	40,000	474,475	750	..	74,020	195,037	432,540	22,000	..	1,238,822
„ <i>rigida</i> ..	..	825	..	..	..	..	..	800	..	1,625
„ <i>strobilus</i> ..	1,200	5,125	40	..	..	..	..	6,000	..	12,365
„ <i>Torreyana</i> ..	200	..	..	..	..	..	..	110	..	310
<i>Pittosporum tenuifolium</i> ..	1,600	..	..	..	..	..	..	..	..	1,600
<i>Populus</i> (vars.) ..	6,000	14,700	..	..	..	10,027	250	..	..	30,977
<i>Pseudo-tsuga taxifolia</i> ..	56,000	87,325	2,500	..	100	..	56,750	16,000	..	218,675
<i>Pyrus aucuparia</i> ..	1,800	3,195	..	..	11,580	..	..	..	..	16,575
<i>Quercus pedunculata</i> ..	205,000	133,825	700	..	..	..	..	..	..	339,525
<i>Quercus pedunculata</i> (acorns <i>in situ</i>) ..	30,000	..	..	..	..	..	..	..	..	30,000
<i>Robinia pseudo-acacia</i> ..	1,100	8,350	..	..	..	..	..	20,000	..	29,450
<i>Salix</i> (vars.) ..	1,600	4,675	..	5,170	..	3,308	5,000	..	..	19,753
<i>Sequoia sempervirens</i> ..	..	200	..	..	..	..	..	..	..	200
<i>Sophora tetraptera</i> ..	2,500	225	..	..	..	..	..	..	..	2,725
<i>Thuja plicata</i> ..	800	24,325	..	..	..	..	286	..	..	25,411
<i>Ulmus campestris</i> ..	630	..	..	..	..	..	..	..	..	630
Various trees and shrubs ..	..	400	..	..	..	..	..	..	50,000	50,400
Totals ..	2,180,837	7,726,347	30,525	152,896	389,554	1,466,805	5,346,871	569,640	50,000	17,913,475

R. G. ROBINSON,
Superintending Nurseryman, South Island.

TAPANUI NURSERY, OTAGO.

(Area, 132 acres; altitude, 500 ft.; established, 1897.)

It is questionable if local tree-raising operations have had to be conducted under more adverse conditions since the establishment of this nursery than during the past season, and following immediately upon an unusually sunless year it is only reasonable to anticipate in the attainment in tree-growing work generally a decreased measure of success.

The annual rainfall (43.45 in. occurring over 213 days) is the heaviest yearly precipitation since 1905, and undoubtedly the wet weather has been more persistent than in any previous recording year. In most localities a similar rainfall to that experienced here would be looked upon with approbation; but the argillaceous composition of the surface soil and substrata on this station forbids systematic tillage unless a fair proportion of sunshine and drying winds are distributed throughout the season.

Raising of Seedlings.—Special attention was directed upon the seed-bed area by manuring and frequent tillage, and during the last two weeks of October some 476 lb. of tree-seed—as shown on Schedule V—were operated with under fair conditions. To the subsequent coldness must be attributed the slowness in germination throughout, although gradually an even though somewhat thin crop of seedlings resulted. It will be noticed that some 2,122,100 yearlings were