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DEPARTMENT OF LANDS: REPORT STATE FORESTS. ON

PART I .- STATE FORESTS UNDER THE CONTROL OF THE CONSERVATORS OF STATE FORESTS. PART II .- STATE FORESTS SET APART FOR AFFORESTATION, UNDER THE CONTROL OF THE CHIEF FORESTER.

Presented to both Houses of the General Assembly by Command of His Excellency.

REPORT ON THE STATE FORESTS BY THE UNDER-SECRETARY FOR LANDS.

Department of Lands, Wellington, 20th June, 1906.

As already foreshadowed in the annual report of the Department upon the lands administration, I have the honour to submit herewith a definite report upon the State forests of New Zealand, as distinct from last year's report on "The Timber Industry of New Zealand," which dealt with the operations of the numerous sawmillers throughout the colony and the utilisation of the milling-

timber, both as regards the consumption within the colony and the utinsation of the mining-timber, both as regards the consumption within the colony and its export outside.

This report refers only to State forests proclaimed as such by the provisions of "The New Zealand State Forest Act, 1885," which must not be confused with the ordinary Crown forests set apart under the authority of "The Land Act, 1892," and under the control of the Land Boards and the Commissioners of Crown Lands.

Judging from articles which have appeared from time to time in the public Press, there appears to be some misapprehension as to the powers of the Government, represented by the Commissioner of State Forests appointed by "The New Zealand State Forests Act, 1885." Section 6 of that Act provides that sums accruing from the management of State forests are to be paid into a separate account of the Consolidated Fund, to be called the "State Forests Account"; and section 7 authorises the Commissioner of State Forests to borrow money for State-forest purposes up to £10,000, but gave no power to enable the cost of the State Forests Department to be defraved out of the Consolidated Fund in the same way as other Departments of the Govern-It therefore became necessary to raise revenue from the disposal of marketable timber out of the State forests by sale on royalty to sawmillers, the sums so acquired being used for the gradual development of a Department whose duties would embrace the work of afforestation and replanting, and whose operations would be confined to districts where the original native growth had disappeared, and, in consequence, the climatic conditions demanded reforestation.

The efforts of this Branch of the Lands Department, under the control of the Chief Forester, were therefore naturally turned, first, to the treeless areas of Central Otago, in the South Island; and, secondly, to the large pumice plains in the interior of the North Island, between Rotorua and Taupo, known as the Kaingaroa and Waiotapu plains; followed by the initiation of nurseries and plantations at Hanmer, in the Canterbury District, and similar works at Starborough and Dumgree, in Marlborough. The latest nursery and plantation area is that of Kurow, in North Otago, where the mellowing influence of forest-growths are much needed in that treeless

locality.

The yearly expenditure on the above work has risen from £10,334 in the year 1901-2 to nearly £20,000 in 1904-5; and will probably increase to £28,000 in the current twelve months. Since 1896 practically £100.000 has been spent upon reforestation. The revenue from State forests for those periods amounted to £17,000 for 1901-2; £16,000 for 1902-3; £17,000 for 1903-4;

£16,000 for 1904-5; £20,000 for 1905-6.

Thus far it has been shown that the Government has not stayed its hand in the matter of providing timber-supplies for future generations, whilst the work of afforestation is going steadily forward, and its progress is both real and systematic. It must also be borne in mind that the men employed as nurserymen and overseers have required special training for their work, and that continuous experiments have had to be made to ascertain the various descriptions of trees most suitable for rearing and planting out, bearing always in mind the varied climatic conditions prevailing in the different parts of the colony. No less than thirty-two million tree-plants have been so raised in the State nurseries from their commencement, and the annual output is now over eight million trees.

Following upon these prefatory remarks are given summaries setting out the details of the

gazetted State forests and the State nurseries and plantations.

Part I is a statement in schedule form of all State forests in the several land districts, and accompanying it are to be found brief summaries of those areas in each district and their present condition, whilst statements by each Conservator of State Forests are attached, giving full particulars of the individual forests in his district under his charge, and periodically inspected by the Forest Rangers.

Part II is specially devoted to the usual annual report by the Chief Forester, on the reforestation areas under his more immediate control, and regarding which he has, with his usual clear-

ness, detailed the work done during the past year.

Interesting maps are also attached, showing the locality of the various State forests and the timber they contain.

WILLIAM C. KENSINGTON,

The Hon. T. Y. Duncan, Commissioner of State Forests, Wellington. Under-Secretary.

PART I.

SUMMARY OF STATE FORESTS UNDER THE CONTROL OF THE CONSERVATORS OF STATE FORESTS.

Land District.	No.	Area of Forests.	Area burnt or destroyed (approx.).	Area grassed.	Area replanted.	Area remain- ing in Natural State (approx.).	Milling-timber remaining.
		Acres.	Acres.	Acres.	Acres.	Acres.	Sup. Ft.
Auckland	61	234,824	$\{22,111*\}$	7,650	1,618	159,913	234,792,402
Hawke's Bay	17	222,936	1,000*	Nil	Nil	221,936	205,000,000
Taranaki	25	64,145	Nil	,,	,,	64,145	77,160,000
Wellington	45	938,951	3,433*	123	,,	935,518	41,480,000
Marlborough	2	25,260	$\{\begin{array}{c} 500^* \\ 1,120 \\ \end{array}\}$	300	"	23,640	94,000,000
Nelson	23	8,900	310*	Nil	,,	8,590	27,393,000
Westland	3	456	4561	,,	,,	Nil	10,000
Canterbury	85	270,631	10,631‡†	()	Not given	260,000‡	Not given.
Otago	10	91,100	1,000*	Nil	"	90,100	3,700,000
Southland	20	445,150	$\left\{\begin{array}{c} 350* \\ 4,800+ \end{array}\right\}$	"	"	440,000‡	62,723,700
Totals	291	2,302,353	98,511	8,073	1,618	2,203,842	746,259,102

* Burnt.

† Destroyed.

f About.

AUCKLAND DISTRICT.

The State Forests in this district cover 234,824 acres, comprised in sixty-one different areas. Out of this about 22,000 acres has been burnt off at various times, mainly through accidental fires spreading into the reserves, and some 7,650 acres have accordingly been grassed to enable the land to be used for grazing purposes, whilst 1,618 acres have been replanted, and will eventually become forest land once more.

From the careful inspections that have been made from time to time, it would appear that about 126,000 acres of the forest contain timber suitable for milling purposes, and, as the result of continuous and pressing applications by the sawmillers, over 154,000,000 superficial feet have been sold on royalty to supply in some measure the increasing demand for timber in the North. It is now estimated that about 234,000,000 superficial feet still remain available for this purpose, and will be sufficient to meet the demands for some years to come.

Although large quantities of timber have been so disposed of and otherwise destroyed, yet it is estimated that no less than 160,000 acres are yet in their natural state. This includes a considerable quantity of milling-timber suitable for disposal, and a fair proportion of land that will be available for settlement purposes when the timber has been cleared off the surface; but, making allowances for this, there would appear to be about 90,000 acres suitable only for reservation for climatic purposes, as the land is too rough and mountainous to be utilised in any other way. Such forest areas will be of inestimable good in preventing the degradation of the soil, and retarding the rapid rise of mountain streams after a heavy rainfall, by absorbing the surplus moisture and allowing it to gradually percolate through the vegetation to the benefit of the lower-lying lands.

HAWKE'S BAY DISTRICT.

The seventeen forests in Hawke's Bay comprise 222,936 acres, mostly in the Poverty Bay portion of the district or along the slopes of the Ruahine Ranges in the south. They are reported to be still in their natural state, covered with mixed forest, scrub, and fern. It is estimated that they contain over 200,000,000 superficial feet of milling-timber, and up to the present none of this has been sold or disposed of to the sawmillers, and still remains available for that purpose. Practically, the bush-fires have not encroached into the State forests, and, with the exception of a few acres on the outskirts, they are in a virgin state. Tree-planting has not yet been necessary in the district, and as most of the reserves are situated on the mountain ranges which form the backbone of Hawke's Bay, it is important from a climatic point of view to preserve them untouched. Being remote from the various trade centres, and comparatively inaccessible, there is not likely to be much demand for the timber in these forests for a long time to come.

TARANAKI DISTRICT.

There are twenty-five different State forests in this district, covering an area of 64,145 acres. All the land is still in its natural state, and is covered with mixed bush and timber, the latter being almost entirely available for milling purposes, as only about 4,000 acres of these forests are not so suitable. None of the timber has vet been disposed of to sawmillers, and there is consequently an estimated quantity of 77,000,000 superficial feet which could be utilised if deemed advisable. However, much of it is difficult of access and situate in remote localities, so that disposal in this manner is not at present practicable. Fires have apparently encroached very little into the reserves, and the forest seems to be untouched, so that tree-planting operations have not yet been needed in Taranaki, and the lands serve the purpose for which they were originally set aside, and assist in maintaining the climatic equilibrium of the country.

Wellington District.

Some forty-five State forests in this district contain 938,951 acres of land set apart under the provisions of the Act. With the exception of a few acres in the outskirts, the whole of this large reserve is still in its natural state, and contains great quantities of valuable milling-timber, though for want of easy access a large proportion cannot be utilised for that purpose for many years to come. About 3,600,000 superficial feet has been disposed of to sawmillers and others, and fires have swept through the bush on about 3,000 acres, thereby destroying the forest growing on the land, but with this inconsiderable exception the forest reserves are untouched. No reforestation has yet been carried out in the Wellington District, and as much of the present reservation is unlikely to be needed for settlement requirements, but is admirably adapted for climatic and scenie purposes, it is probable that tree-planting on a large scale will be unnecessary for a long time to come.

MARLBOROUGH DISTRICT.

There are only two State forests in Marlborough, comprising 25,260 acres. About 15,500,000 superficial feet of timber has been felled and sold to sawmillers, and it is estimated that about 94,000,000 superficial feet of milling timber still remains available. An area of 500 acres has been burnt, and of this 300 acres has now been put down in grass. None of the cleared area has yet been replanted, as only some 1,600 acres has been affected in this manner.

NELSON DISTRICT.

In Nelson are to be found some twenty-three different blocks of land set apart under the State Forests Act, aggregating 8,900 acres. It is estimated that 27,000,000 superficial feet of milling timber are included in these forests, and of this none has been disposed of in any way. About 310 acres of bush has been destroyed by fires sweeping through it, but, with this exception, the whole of the land reserved is still in a state of nature, and, from a climatic point of view, is very useful to the district. No replanting has been thought necessary under the above circumstances.

WESTLAND DISTRICT.

Only 456 acres, in three reserves, have been set aside for State forest purposes. They have been denuded of the original indigenous forest, but a secondary growth is now springing up and covers all the area.

CANTERBURY DISTRICT.

There are no less than eighty-five different areas of forest lands set aside under the provisions of the Act in Canterbury, extending over 270,631 acres. Most of these forests were recommended for reservation for climatic and preservative purposes, to prevent the back country from being converted into shingle-faces, rather than for any timber-value. The majority of the reserves are of such altitude and so difficult of access that they are of little value for milling purposes, though it is estimated that there is a large proportion of birch timber which will eventually be available for utilisation in this manner. In North Canterbury some 7,000 acres of forests were destroyed by fire about eight years ago, and subsequently partly surface-sown in grass, and in many of the forests traces of fires are to be seen, though much damage has not been done. No afforestation has yet been considered necessary in the reservations, though at Hanmer and elsewhere plantations have been started and are doing well, as will be seen by the Report on Afforestation by the Chief Forester of the Department.

OTAGO DISTRICT.

Some 91,100 acres, comprised in ten different blocks, have been set aside as State forests in Otago, mostly in the extreme north of the district, round the McKerrow, Young, and other ranges. About a thousand acres has been destroyed by fire, but with this exception the forests remain in their natural state. About 200,000 superficial feet of timber has been cut and sold off the reserves, and it is estimated that 3,700,000 superficial feet of milling-timber are available for future supplies. None of the burnt area has been grassed or replanted, but the Chief Forester has planted 1,679 acres of plantations in other parts of the district, which more than counteract the destruction of the natural forests.

SOUTHLAND DISTRICT.

The second largest area of lands reserved for State forest purposes is to be found in this district, as 445,150 acres contained in twenty reservations have been set aside from time to time. Very little forest has been burnt, and practically the whole of the area is still in its natural state, and no less than 102,630 acres of sawmilling bush is still available for future operations, contain, ing approximately 92,000,000 superficial feet of rimu, 16,000,000 superficial feet of kahikatea-9,000,000 superficial feet of matai, and 200,500,000 superficial feet of totara, whilst 93,000,000 superficial feet of birches are estimated to be included in the above forests. Outside these areas is the great Sounds National Park, of over 2,000,000 acres, so that climatic considerations have been well looked after in the Southland District.

F	FORESTS	
ζ	STATE	
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	DETAILS	

				DETAI	DETAILS OF	DIATE FORESTS	SLS				
				Forest.		Milling-timber,	mber.		Ares.		
Reserve No.	Survey District.	Area.	If in Natural State.		If containing Milling- timber.	Felled and sold on Royalty.	Remaining.	Burnt.	Grassed.	Replanted.	Remarks.
۱ .			:	AUC	KLANI	AUCKLAND LAND DISTRICT.	RICT.				
	-	Acres.				Sup. Ft.		Acres. The Acres.	Acres.	Acres.	
ත.	Whangape, Block XIV	7,700	Yes .	Yes	:	:	55,000,000	:	:	:	High land, situated west coast, contains 50,000,000 ft. kauri and 5,000,000 ft.
7	Ö	16,024	No.	•	•	14,176,521	41,401,972	100	100	:	Country undulating, suitable for settle-
	III, and IV			,							ment. Altitude, sea-level to 1,502 ft. Access, Hokianga Harbour. Remaining marketahle timber now measured and
14	Tutamoe, Block X	7,750	Yes .	. No	:	:		:	:	:	nearly ready for disposal. Native bush, towai, rata, tawa, &c. rough
33, 15	Tutamoe, Block XV	1,250	:	•	:	:	•	:	:	:	land. High mountainous country, 2,000 ft. to
				11. /-							2,500 ft. above sea-level, suitable for
. 16	Whangarei and Bay of Islands County, Blocks III, IV, VII, and VIII	17,640	No	. Yes	:	60,000,000	1,500,000	10,000	4,000	871	Part suitable for settlement, part can be utilised for reforestation; position,
17	Hukerenui, Block X	900		No	:	1,400,000	:	. 200	:	:	good, easy access. Kauri timber now being worked by
21 26 29	Whangarei, Block X Mangakahia, Block VIII	600 1,210 467	$egin{array}{c} { m Yes} & . \\ { m No} & . \\ { m Yes} & . \end{array}$	Yes	:::	80,000	500,000 500,000 1,000,000	300	300	:::	Iessees. In ratural state. Held under grazing lease year to year. In natural state, remaining timber mostly
35	Hobson, Kaihu, Tutamoe, Blocks III, IV, XVI, and XV	5,450	No	:	:	44,136,069	15,300,000	2,725	:	:	kauri. Considerable portion suitable for settlement. Timber remaining, kahikatea.
35	<u> </u>	12,355	Yes	<u>.</u>	:	•	26,000,000	200	:	:	and a little kauri. e of 8,000,000 ft. of
						, , , , , , , , , , , , , , , , , , , 					yet commenced). Measuring remaining timber in hand, comprising kauri, rimu,
37	Waitemata, Kaipara, Block XV	175	:	No No	:	:	:	:	:	:	Rough poor land; mostly covered fern
86	Rodney, Arai Parish, Blocks V and VI Rodney, Pakiri, Block VI	425 1,550	No.	::	::	779,547	::	::	::	::	and tea-tree, light bush and gulles. Covered mostly with light native bush. Timber disposed of on royalty and worked
40	Rodney, Pakiri, Block XIV and XV	593	•	:	:	:	:	:	. :	:	Timber sold and worked, including No. 39,
14 24 83	Rodney, Hoteo Parish, Blocks I and II Tauhoa, Block X. Waitakarei Parish, Blocks XII and XIII	925 1,525 300	Yes .	* * * *	:::	:::	:::	150	:::	:::	Native bush in natural state. In natural state, native bush. Miscellaneous lease, section 232, "Land
											Act, 1892."

44	Otau Parish, Block XIV	:	:	:	834	Yes	:	$\dot{X}^{\dot{e}8}$:	:	1,750,000	:	:	:	Kauri, 500,000 ff.; rimu, 1,250,000 ft.
45	Raglan, Block VII	:	:	:	2,270		:	No	:	:	•		:	:	Umber remote irom suitable market. One quarter area open land, remainder
46	Karioi Parish, Block IV.	:	:	:	2,898	2	:	\$:	:	:	:	:	:	native bush with a few scattered rimus. High country covered with native bush.
€	Kawnia, Pirongia, Block II	:	:	:	3,000	2	:	:	:	:	:	:	:	:	Ordinary mixed bush, steep broken land. Altitude, 3,000 ft., and suitable for
53	Moehau, Block II	:	:	:	2,720		:	Yes	:	•	1,500,000	•	:	:	settlement. Mostly high country, 1,000 acres fern and
99	Tairua, Blocks X, XI, XIV, and XV	AX pu	:	:	3,910	No	:	No	:	6,100,000	:	:	:	:	rub, remainder native bus workings cut out.
33 	Piako and Ohinemuri, Block XI	XI ::	:	:	2,500	Yes	:	:	:	•	:	•	:	:	Te Aroha Mountain; high steep land, mostly covered with light bush and
99	Piako, Block XV	:	:	:	1,436	:	:	*	:	:	:	:	:	:	scrub. Native bush with some scattered rimu;
67	Katikati, Block VIII	:	:	:	270	\$:	:	:		:	:	.•	:	soil good. About 100 acres open land, remainder
89	Katikati, Blocks I and IV	:	:	:	144	. \$:	•	:		:	•	:	:	native bush, comprising tawa, rata, and a few scattered rimus; country rough. Undulating country covered with native
68A		:	:	:	81	:	:		:		•		:	:	bush of no marketable value. Ditto.
98 5		:	:	:	541	: :	: :	; ;;	::	:	000	::	::	:	
₹	Oranewannuku, Block All	•	:	:	3,050		:	Yes	;	:	9,150,000	:	:	:	In natural state, covered with mixed bush. Milling-timber mostly rimu. Country
74	Rotorua, Block II	:	:	:	747	No	:	No	:	:	:	:	:	747	at; soil good. ation at Whakar
62	Haparapara and Raukumara, Blocks VIII, IX, XV, II, III, V, and VI	Blocks VI		ХП,	57,700	Yes	:	:	:	:		:	:	:	an paned. No milling-timber; mixed forest, chiefly towai: broken country, unsuitable for
											1				settlement. Elevation, from 500 ft. to 3 500 ft.
81	Tatua, Block VI	:	:	:	252	N_0	:	Yes	:	750,000	200,000	:	:	:	Felled timber cut for telegraph-lines,
-	Whangaroa, Block 2	:	:	:	1,292	No	:	Yes	:	2,500,000	375,000	:	:	:	5.5
ΙΑ	Kaeo, Blocks X, XI	:	:	:	2,112	\$:	No	:	2,000,000	•	:	:	:	+ 2
															one third suitable for settlement. Access from Okaihau. Altitude, 500 ft.
23	Maungataniwha, Blocks V, VI, VII	г, уш	:	:	3,097	Yes	:	Yes	:	:	2,500,000	:	:	:	to 1,800 ft. In natural state. Altitude, from 200 ft.
ಣ	Maungataniwha, Blocks XI, XII, XV,	XII, XV, 2	XVI	:	8,243	:	:	No	:	•	··•	:	:	:	to 1,916 ft. Covered in native bush, steep broken land.
4	Takahue, Block IX	•	:	:	4,160		:	Yes	:	:	4,000,000	:	:	:	of t. to 2,400 ft. natural bush,
(•				4,000,060 ft. kauri; remaining timber of no marketable value.
x	Omapere, Block XIII	:	:	:	640	:	:	No	:	:	:	•	•	:	Country undulating, suitable for settlement; road access. Altitude, 700 ft.
ō.	Waoku, Blocks V and VI	:	:	:	3,692	:	:	Yes	:	:	1,000,000	•	:	:	to 1,400 ft. High rough country, access difficult; High rough country.

DETAILS OF STATE FORESTS—continued.

					Forest.		Milling	Milling-timber.		Area.		
Reserve No.	Survey District.		Area.	If in Natural State.		If containing Milling- timber.	Felled and sold on Royalty.	Remaining.	Burnt,	Grassed.	Replanted.	Remarks.
			-	ΑŪ(JKLA:	ND LAY	AUCKLAND LAND DISTRICT—continued.	[continued.	A VINCENTAL PROPERTY OF THE PR			
-	_	4	Acres.	ţ.	-	ŀ	Sup. Ft.	Sup. Ft.	Acres.	Acres.	Acres.	
10	Wacku, Diocks 1A and A	:	9,510	X es	:	Хөз	:	500,000	:	:	:	High rough country, access difficult;
11 12 13	Waoku, Block XII Punakitere, Blocks IX and XIII Waipoua, Blocks I, II, III, IV, VII, VIII	;;;	150 928 22,640		:::	No Yes	:::	.: 65,000,000	300 Very little	:::	:::	imatic p wai, tawi broken a coast.
•												65,000,000 ft. kauri, of which about 5,000,000 ft. is dry. High land. Soil mostly poor. Altitude, from 200 ft. to
18	Opuawhanga, Blocks V and VIII Whangarei, Blocks I and II	• • •	2,195 1,369	No "	::	::	3,389,715	300,000	1,600	::	::	
22 23	Whangarei, Block VII	::		", Yes	::	: :		300,000	90	:	:	for disposal. Timber, kauri, part dry. Timber chiedts form and belibetes
8 2	Purua, Block I	:	163	:	:	No	:		::	: :	: :	Light native bush.
25	Mangakahia, Block IV; Mototau, Block XVI	: :	576	No.	::	". Yes	2,114,695	400,000	. 500	. 500	: ; .	: ₫
26A 27	Mangakahia, Block VIII Mangakahia, Blocks X and XIV		2,054		::	No Yes	4,169,834	3,500,000	. 100	. 50	::	years. Limbers remaining, chiefly rimu and kahikatea. Held under grazing-lease, year to year. Kauri worked out, remaining timber
28	Maungatapere Parish, Block V	;	883	:	:	No	900,000	:	200	:	:	mostly kahikatea. Milling-timber worked out: held under
30	Waipu and Mareretu, Blocks I, IV, and XII	:	7,225	:	:	:	317,965	:	4,000	3,000	:	year-to-year lease. Kauri worked out, other timbers of no
31	Mareretu	::	382 754	$\ddot{ m Y}$ es	::	::	198,000	::	:*:	::	::	commercial value. Marketable timber all worked out. High steep country (Maunganui Bluff),
36 44A 47	Tangihua, Block VII Opaheke, Otau Parish, Blocks XI and XII Karioi Parish, Block X	:::	6,265 500 640	No 	:::	Yes No	11,157,746	1,165,430	98 :	:::	:::	
gram a	Totals	:	234,824	:		:	154,170,092	234,792,402	22,111	7,650	1,618	

\$\frac{2}{8}\text{C}\$ \text{ Nes} \tag{5}{\text{C}}\$ \text{Nes} \tag{7}{\text{C}}\$ \text{Se} \tag{7}{\text{C}}\$ \text{Se} \tag{7}{\text{C}}\$ \text{Se} \tag{7}{\text{C}}\$ \text{Se} \text{Se} \tag{7}{\text{C}}\$ \text{Se} S	2,306 Nes Yes 5,000,000 1,880 " 4,000,000 1,880 " 70,000,000 1,142 " 11,000,000 1,142 " 7,500,00 1,142 " 1,500,000 1,142 " 1,500,000 2,200 No 44,000,000 2,500 No 44,000,000 1,142 " 1,500,000 1,142 " 1,500,000 2,500,000 No 1,500,000 1,142 " " 1,142 " " 1,142 " " 1,142 " " 1,142 " " 1,142 " " 2,536 No 1,500,000 1,144 " " 2,538 " " 1,700 " " 1,700 " " 1,170 " " 1,170 " " 1,144 "	2,306 Nes Nes 5,000,000 4,000,000 6c. 1,880 4,000,000 1,142 11,100,000 1,142 11,000,000 1,142 11,000,000 2,500,000 1,142 11,000,000 2,500,000 1,142 11,000,000 2,500,000 1,142 11,500,000 2,500,000 1,142 11,500,000 1,500,000 1,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,000 2,500,0								IAWE	KE'S	BAY L	HAWKE'S BAY LAND DISTRICT	TRICT.			
\$\frac{8}{8}\text{\$6\$}\tag{4}\tag{000,000}\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$\frac{8}{8}\text{c}\$\tau_{1,756}\tau_{1,7	\$\begin{align*} \begin{align*} \begi	: 0	:	:	:	:	2,306	Yes	•	Yes	:	:	5,000,000		:	:
1,756 4,000,000 1,4204 70,000,000 1,1820	1,756	1,756 ,, , , , , , , , , , , , , , , , , ,	:	:	:	:	;	1,880	:	:	:	:	:	4,000,000	:	:	:
&c. 134,204 70,000,000 1,580 2,500,000 1,142 7,500,000 1,142 7,500,000 1,142 1,500,000 1,142 1,500,000 1,142 1,500,000 22,200 44,000,000 26,386 1,700 1,700 1,700 25,000,000 25,000,000 25,000,000 25,000,000 25,000,000 25,000,000 25,000,000 25,000,000	&c. 134,204 70,000,000 1,580 2,500,000 1,142 7,500,000 1,142 7,500,000 1,142 1,500,000 1,142 1,500,000 22,200 44,000,000 26,386 1,700 1,700 1,700 8,704 8,704 8,704 8,704 8,704 1,700 1,700 1,700 1,700 1,700 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<td>:</td>	\$\text{&c.}\$\tag{8.6}\$\tag{8.6}\$\tag{1.580}\$\tag{1.580}\$\tag{1.580}\$\tag{1.580}\$\tag{1.580}\$\tag{1.580}\$\tag{1.580}\$\tag{1.580}\$\tag{1.580}\$\tag{1.580}\$\tag{1.580}\$\tag{1.580}\$\tag{1.580}\$\tag{1.590}\$\tag{1.590}\$\tag{1.600}\$\tag{0.00}\$\tag{1.500}\$\tag{0.00}\$\tag{1.500}\$\tag{0.00}\$\tag{1.500}\$\tag{0.00}\$\tag{1.500}\$\tag{0.00}\$\tag{1.500}\$\tag{0.00}\$\tag{1.500}\$\tag{0.00}\$\tag{1.500}\$\tag{0.00}\$: 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1,880	1,880 11,000,000 2,500,000 1,800	1,880	&c.	:	:	:	:	134,204	:	:		:	:	70,000,000	:	:	:
1,142	1,142	1,142	:	:	:	:	:	1,880		:		:	:	11,000,000		:	:
1,800	1,800 1,1442 1,1442 1,1444, 1,500,000 1,500,000 1,1442 1,1442 1,1444, 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000	1,800 1,800 1,142 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,500,000 1,50		:	:	:	:	1,142	:	:	:	:	:	2,500,000	:	:	:
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1,142 No		:	:	:	:	1,800		:		:	:	7,500,000	:	:	:
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Rinneray, Block V, V, V, Onoke, Block II, V,				Rough broken country, only suitable for	forest reserve. Ditto.	66	scenic reserve,	pose it is very suitable. Only suitable for scenic purposes.	Only valuable as forest reserve.	Too rough to mill. Too rough and inaccessible to mill.	Only suitable for forest reserve. First-class reserve for forest and scenic	purposes. First - class scenery reserve. Close to	Utiku Railway-station. Sold byžauction to Gardener Bros.							\$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50 \$1.50		
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Rimutaka, Blocks II, III, VI, VIII, IX, X, XI, Aton Arataraya, Blocks II, VI, IX; Paikakarili, Blocks II, Akatarawa, Blocks I, V, IX; Paikakarili, Blocks II, Staturawa, Blocks XV, XVI; Rimutaka, Blocks II, IV, VIII, XV, X, XIIV; I.55,000 ". Tawaru, Blocks VII, VIII, XV, X, XIIV; I.55,000 ". Tawaru, Blocks VII, VIII, XV, X, XIII; I.807 ". I.807 ". I.808 ". I.800 ". II.800 ". III.800 ". II.800	No No	Yes	No	No	•		2 2	:	: :	Yes	$_{ m Yes}^{ m No}$:	* *	:	LBOR Yes		. :	NELS	Yes	2 2	: :	*
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*	;	:	:	:	1,100 Ž	ç	:	Fossibly	Гy	:	Unknown	Partly	:	:
•	:	:	:	:	54	•	:	No.	:	:	:	:	:	:
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A 1.1.	:	:	:	:	285	•	:	2	:	:	:	.;	:	:
Ashburton County	:	:	:	:	9,000	•	:	xes	:	:	Unknown	Sugntly	:	:
:	•	:	:	:	350	;	:	;	:	:	:		:	•
*	:	:	:	:	001	:	:	very little	ttle	:		:	:	:
*	:	:	:	:	000	;	:	Yes	-	:	•	:	:	:
**	:	:	:	:	000	••	:	very in	ttle	:		•	:	:
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continued.	
FORESTS-	
STATE	
DETAILS OF	

	Survey District.		Агеа.	If in Natural State.	If containing Milling-timber.	Felled and sold on Royalty.	Remaining.	Burnt.	Grassed.	Replanted.	Remarks.
				ANTERB	CANTERBURY LAND DISTRICT—continued.	DISTRICT	-continued.				
						Sup. Ft.	Sup. Ft.	Acres.	Acres.	Acres.	
Ashburton County	:	:	2,100	Yes	Very little	;:	Unknown	Slightly	:	:	
Campo Ton Thomas		:	300	:	Possibly	:	•	, .	:	:	
•	: :	:	1,800	•••		:	,		:	:	
î .	:	:	008	: "	Partly	:		,,	:	:	
	:	:	1,000	"	: "	•	٠,		:	:	
:	:	:	400	. ,,	: "	:			:	:	
	:	:	400	"	:	:		ŕ	:	:	•
: :	:	:	300		:	:		:	:	:	
2	:	:	1,200	,,	: "	:			:	:	
: :	:	:	250	:	:	:	,	•	:	:	
: :	:	:	2,600	:	:	:	,,		:	:	
	:	:	2,600	,	:	:	•		:	:	
: #	:	:	1,300	"	:	:	•		:	:	
Mackenzie County	:	:	48	:	Yes	:		:	:	:	
•	:	:	13	:	oN	:	:		:	:	
: .:	:	:	5,100	:	Partly	:	Unknown	Slightly	:	:	
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: :	:	:	2,500	"	:	:	•		•	:	
: *	:	:	150		A little	:		•••	:	:	
.	:	:	500	:		:	•		:	•	
: \$:	:	350	:		:	•	:	:	:	
Geraldine County	:	:	207	"	No.	:	:		:	:	
Waimate County	:	:	165	"	A little	:	Unknown	Sugnery	:	•	
	:	:	450	"	٤.	:	"		:	:	
Waitaki County	:	:	2,800	:	. \$:	"	•	:	:	
•	:	:	3,600	"		:	,		:	:	
	:	:	11,000	. "	•	:	"		:	:	
E	Thetal		270.631								
Ā	Order	•									
•					OTAGO LA	OTAGO LAND DISTRICT.	CI.				
			6		2577					-	
Aspiring and Wilk Wilkin, Section 33	Aspiring and Wilkin, Section 3330 Wilkin, Section 3331	::	3,800 3,100		A little	::	100,000	::	: :	.: :	
Young, Haast, Wi	lkin, and McKerrow	Section 3332	47,600	:		50,000	1,000,000	1,000	:	•	
Haast and McKerr	ow, Section 3333	:	11,000	:		100,000	1,000,000	:	•		
	7 400		~		-				:	-	

			More birch and less red-pine in remaining milling-timber.	10011110					More birch and less red-pine in remaining	a milling-timber.				No black-pine.								
: :		-	:	:	:	: :	:	:	::		: :	: :	:	:	:	:	:	:	:	:		_
: :			:	:	:	: :	:	:	::		: :	: :	:	:	:	:	:	:	:	:		
: :	1,000	-	:	:	:	: :	:	:	::		150	200	:	:	:	:	:	:	:	:	350	
1,000,000	3,700,000	J.T.	9,078,000	730,000	1 000 000	2,000,000	1,850,000	1,927,000	13,640,800	22.247.900	, , , , , , ,	:	:	1,500,000	2,000,000	2,500,000	• • •	1,250,000	3,000,000	:	62,723,700	
::::	200,000	SOUTHLAND LAND DISTRICT.	8,023,000	1,040,000	5,013,200	: :	3,149,900	890,800	617,400 $9,897,900$	29,718,100	3,358,700	2,382,900	43,605,000	:	•	:	:	:		1,082,900	108,779,800	
No Yes A little "	:	THLAND I	Yes	:	: :	: :	:	: "	::	:	No		Yes	:	:		: oN	Yes	:	·· oN	•	-
Yes	:	SOU	Yes	:	Partly		:	:	::	;	: :	:	: "	Yes	:	:	:	:	:	Partly	:	
8,200 1,000 7,000 2,000	91,100		14,800	340	8,600 400	50,000	2,700	3,750	284 20,950	52.800	740	1,470	9,650	232,450	29,000	6,300	470	4,000	4,700	746	445,150	
::::	:	-	:	:	: :	: :	:	:	: :		: :	:	:	:	:	:	:	:	:	:	:	-
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3338 3339	:		:	:	:	: :	:	:	::	;	: :	:	:	:	:	:	:	:	:	:	:	
Hunter, Section 3336 Stafford, Section 3337 Hunter and Stafford, Section 3338 Hunter and Stafford, Section 3339	Totals		:	:	u.w.c	: :	:	:	II	;	: :	:	:	land	:				:	:	Totals	
Hunter, St. Stafford, S. Hunter and Hunter and			Aparima	Oreti	Campbelltown.	Eyre	Forest Hill	Hokonui	Invercargill Jacob's River	Longwood	Mabel	New River	Oteramika	Stewart Island.	Takitimo	Waiau	Waimumu	Wairaki	Wairio	Winton	· 4 · 20	

PART II. SUMMARY OF STATE FORESTS SET APART FOR AFFORESTATION, UNDER THE CONTROL OF THE CHIEF FORESTER.

	Land	District	•	 No.	Area of R	eser	ves.	Area pla 1905		in	Total area pl		ьd
Auckland Marlborough Canterbury				 5 1 2	13,323 881 806	R. 0 0	P. 0 0	978 130 32	B. 3 0 2	P. 0 0	3,131 192 491	0 2 3	0 0
Otago	Total			 $\frac{4}{12}$	$\frac{2,490}{17,500}$	0	0	$\frac{294}{1,435}$	$\frac{1}{2}$	0	1,678 5,494	0	0

REPORT BY CHIEF FORESTER.

In submitting my (tenth) annual report for the year ending the 31st March, 1906, I have again to record a successful year's work at all stations. The results of operations are naturally largely influenced by the climatic conditions experienced, although a large share of credit is due

to the officers in charge, as well as the staff generally.

From the summaries below, it will be observed that during the ten years, since forestry operations were established, over thirty-two million trees have been raised in nurseries and plantations. Last year's crop in the nurseries totalled over eight million, while the nurseries now contain

nearly fifteen million trees of one, two, and three years old.

During the past year over three and a quarter million trees were planted permanently on an area of 1,435½ acres, bringing the total area planted to date to 5,494 acres, on which are growing nearly eleven and three quarter million trees.

The following tables show details of the year's operations, while detailed reports of each

nursery and plantation, schedules of trees grown, expenditure, and values are appended :-

Number of Trees grown in Nurseries and Plantations, and Area planted, from September, 1896, to 31st March, 1906.

	Number in Nurseries, 31st March, 1906	Values.	Number raised in Nurseries and Plantations, 1896 to 1906.	Values.	Number raised in Nurseries and Plantations, 1905-6.	Number planted in 1905-6.	Area planted in 1905-6.	Total Number in Plantations, 31st March, 1906.	Total Area planted to 31st March,
•		£ s. d.		£ s. d.			Acres		Acres
Eweburn Nursery		1,672 13 9							••
Tapanui Nursery		4,008 13 6					••		
Rotorua Nursery	7,881,400			32,203 18 11	4,619,400		• •		٠,٠
Starborough	1,533,700	2,428 17 6	2,165,375	4,213 5 3	900,200	••	••	••	
Nursery Hanmer Springs	1,395,840	2 ,268 5 2	1,378,000	1,402 0 0	750,000				
Nursery Ruatangata Nursery	652,200	1,217 3 0	934,484	2,091 13 4	483,200			••	
Naseby Planta- tion		••	••			19,650		360,185	132
Gimmerburn Plantation		• •	••		••	129,100	16	223,775	76
Dusky Hill Plan- tation		••	396,700		21,950	70,075		2,002,583	805
Conical Hills Plantation	•••	••	605,296	••	239,600	623,000	278‡	2,074,171	664
Raincliff Planta-	••	••	••			••	••	50,000	206
Hanmer Springs Plantation	••	••	374,200	••	70,900	52,735	$32\frac{1}{2}$	788,270	285
Dumgree Planta- tion	••	••		••	 	365,250	130	,,	1
Whakarewarewa Plantation	••	••	81,680	••	••	967,983	435 3		
Waiotapu Planta- tion	••	••	158,681	••	••	876,525	322	2,814,179	
Kaingaroa Plan- tation Ruatangata Plan-	• •	••	••	••	••	••		44,275	
tation Puhipuhi Planta-	••	••	12,600	••	12,600	150,460	221	7,224	ĺ
tion Government do-	••	••						133,632	
mains, reserves, &c.	•••	,,	• •	••	••	••	••	155,052	••
Totals	14,974,765	22,290 0 5	32,024,274	61,328 3 10	8,078,725	3,254,778	$1,435\frac{1}{2}$	11,717,126	5,494

SUMMARY OF EXPENDITURES AND VALUES.

···				Expendite Year en 31st March	ding	!	Expenditu Septembe to 31st M 1906	r, 18 Iarc	396,	Value of Trees, Improvements, &c., for Year end ing 31st March, 1906.	Value of Improv &c.,; Septemb to 31st	eme from er, Mar	nts, 1896
				£	s.	d.	£	s.	d.	£ s. d.	£	s.	đ.
Amount at 31st March, 1905		£70,300	3 5			-							_
Eweburn Nursery	• •	• •		895		10	7,925		9	2,552 17 3	6,340		
Tapanui Nursery				1,516		6	11,867		4	7,234 16 0	13,08		
Rotorua Nursery				3,827		4	17,763	7	2	18,271 15 0	22,69		_
Starborough Nursery				1,362	11	6	6,523	8	10	4,587 17 11	8,230	13	
Hanmer Springs Nursery				485	14	0	1,528	8	0	2,441 12 10	3,03	4 10	
Ruatangata Nursery				1,304	13	11	2,891	2	10	2,475 11 7	3,55	3 8	
Naseby Plantation				87	1	9	1,756	18	11	249 0 1	3,52	1 17	7
Gimmerburn Plantation				309	19	2	997	3	3	851 9 8	2,06	1 10	3
Dusky Hill Plantation				487	6	0	8,017	4	4	1,410 12 11	18,930) 2	1
Conical Hills Plantation				1,872	16	11	5,500	10	3	4,350 18 3	. 11,66	4 4	. 4
Raincliff Plantation				_,			1,104		5	61 15 4	1,36		11
Hanmer Springs Plantation				443	7	9	2,567	9	3	1,314 19 2	6,079		
Dumgree Plantation.	••			1,349		10	6,240	_	ŏ	3,423 5 11	9,24		
Whakarewarewa Plantation	• •			2,755		2	7,856			6,819 18 9	16,629		
Waiotapu Plantation	• •	• •	• •	684		4	3,157		3	6,424 13 0	17,618		
Kaingaroa Plains Plantation	• •	• •		4		0	322		0	26 19 9		1 13	
	• •	• •	• •	1,132	-	2	1,866	0	1	1,594 1 0	2.810		
Puhipuhi Plantation		• •	• •	1,104	J	4	11		11	1,004 1 0	2,010	, =	• •
Wellington Nursery (propose	sa)	• •	• • •	750	٠. ٨	Δ	1	-	0	750 0 0	750	. · o	0
Kurow Nursery	• •	• •	• •	750	0	0	750	_	0	150 0 0	100		_
Naseby Domain	• •	• •	• •		•		10	_				-	_
Albury Plantation	• •	• •	•		•		72		11	••	72		11
Torea Neck Reserve					•		1	7	6				
Waitahuna Plantation				39	9	7	39	9	7	39 9 7	39	9	7
Supervision thermal reserves	s, &c.						336		9			• •	
Clerical assistance				75	-	0	. 405	0	0			• •	
Contingencies: Typewriters terial, telephone, stationer				94	18	9	265	10	8		44	5 17	0
fidelity insurances, travell	ing-er	rbenses, c		1									
T7 1 4 01 4 3/51 1005		# 111 F00	s. d.	i									
Value at 31st March, 1905	• •	111,799	17 6										
Less value of trees and										1			
horse feed in stock													
at 31st March, 1905,				1									
also tools written off		00.000	٠.	1									
during the year	• •	28,293	94							64,881 14 0	1		
		£83,506	8 2							83,506 8 2			
Totals				19,479	6	- 6	89,779	9	11	148,388 2.2	148,388	3 2	2

Minimum and Maximum Readings of Thermometer (Fahrenheit) and Rainfall at Various Stations for the Year.

			Tempe	erature.		Rainfall.
			Minimum.	Maximum.	Inches.	Number of Days
The state of the s			Deg.	Deg.		
Eweburn Nursery	,		 $1reve{3}$	81	$17 \cdot 41$	113
Tapanui Nursery			 21	90	43.95	119
Hanmer Springs Nursery	7	•••	 13	91	62.18	164
Starborough Nursery			 20	96	33.14	115
Rotorua Nursery			 24	94	49.67	169
Ruatangata Nursery			 26	89	52.61	157
Waiotapu Plantation			 16	86	46.63	185

The Average Number of Workmen Employed Daily at the Various Nurseries and Plantations during the Year 1905-6.

	Free Labour.	Prison Labour.		Free Labour.	Prison Labour.
Eweburn Nursery Tapanui Nursery Rotorua Nursery	5·33 12·25 27·16		Dusky Hill Plantation Conical Hills Plantation Whakarewarewa Plantation	4·50 17·75 19·10	 14·19
Hanmer Springs Nursery Starborough Nursery Ruatangata Nursery	4·50 8·83 11·00		Waiotapu Plantation Hanmer Springs Plantation Dumgree Plantation	$2.51 \\ 2.00 \\ 11.12$	42.56 11.58 27.06
Gimmerburn Reserve Naseby Survey Plantation	1·80 0·59		Puhipuhi Plantation Waitahuna Plantation (two months only)	9·58 0·44	
			**	138.46	95.39

OUTPUT OF TREES FROM NURSERIES DURING YEAR 1905-6.

					Number.	Value.	
						£ (s.	d.
Eweburn		·			157,400	410^{-2}	0
Tapanui		· · · · ·	•••	• • • .	713,827	2,11017	5
Hanmer Springs					35,210	61 4	7
Starborough		•••			371,100	$1,252\overline{}1$	3.
Rotorua				• • •	2,386,931	$6,281\ 13$	8
Ruatangata	• • •	•••		• • •	158,660	408 15	2
					3,823,128	£10,524 14	1

Cost of digging Pits and Tree-planting at Plantations.

Station.							gging er 1,	Pits.		ŗ		pla r 1,0	nting.
• •						£	s.	d.			£	s.	d.
Dumgree Plant					•••	2	10	$6\frac{1}{4}$			1	2	$1\frac{3}{4}$
Dusky Hill Pla	intat	tion				0	19	81			0	18	31
Conical Hills F						1	6	$8\frac{1}{2}$			0	15	1
Naseby Planta	tion										0	16	8
Gimmerburn P		ation				0	11	6 3			0	17	74
Whakarewarew	va P	lantat	ion			0	15	3*			0	8	11
Puhipuhi Plant	tatio	n				0	16	6			0	15	0
	T			m			NT.				_		
	T	INING	OUT	TREES,	Cost of,	\mathbf{AT}_{\cdot}	NU	RSERI	ES.]	Per	1,000.
T 1												s.	d.
\mathbf{E} weburn	•••	-1	•••	• • •	***		• • •		• • •			4	$7\frac{1}{4}$
Tapanui	• • •			• • • •								2	$9\frac{1}{2}$
Hanmer Spring	gs								• • •			3	$7\bar{4}$
Starborough												2	$11\frac{7}{2}$
Rotorua												1	9~
Ruatangata												4	8

ESTABLISHMENT OF NURSERY AND PLANTATION IN KUROW DISTRICT, OTAGO.

As indicated in last year's report, proposals were submitted for the acquisition of a small area for nursery purposes near Kurow. This site of 45 acres has since been acquired, and operations commenced thereon. The area selected possesses all desirable advantages for an ideal nursery—black loam overlaying a strata of porous clay, gradually merging into shingle, shelter from prevailing winds, pure water-supply at a considerable elevation, and convenient to a railway-station.

The buildings consist of dwellinghouse, men's quarters, stables, and implement-sheds, and although these are somewhat old and dilapidated, are capable of being made suitable for present

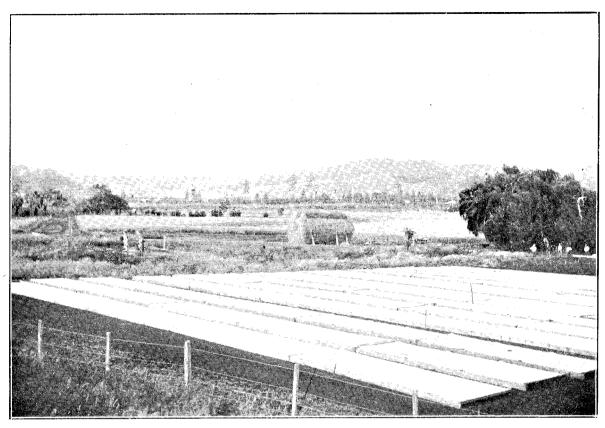
Existing fencing is old and worthless, and will require complete renewal at an early date. The total cost of above was £750, which sum is considered well within the estimated value.

As last season's tree-seed crops at all stations were much in excess of anticipations, it is proposed to transfer about half a million seedlings to Kurow Nursery during the ensuing spring. These will be planted in nursery-lines for one season, and then sent to the plantation, thus giving this station the advantage of a year's start.

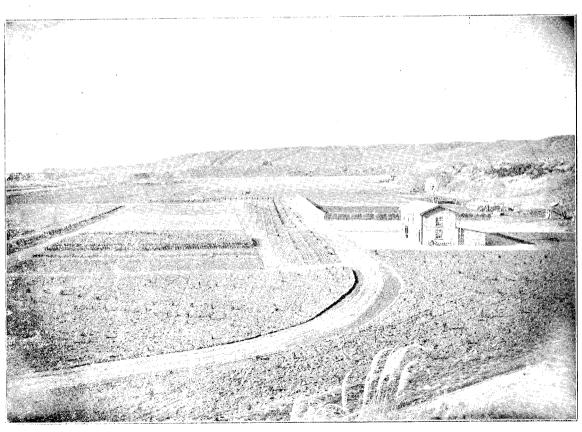
PROPOSED OPERATIONS IN CENTRAL CANTERBURY.

For a number of years the Mackenzie County Council have been planting annually considerable areas with forest trees, the necessary funds being provided by rentals from plantation reserves throughout the county.

The work done by this Council, under the energetic supervision of the Engineer, is of considerable importance both as regards the actual value of the plantations (now approaching the "pole stage") as well as the demonstration of which trees are suitable for extensive plantings for forestry purposes hereafter. Certain difficulties, however, have mitigated against carrying on continuous



SEED-BEDS, RUATANGATA NURSERY.



STARBOROUGH NURSERY IN 1902.

systematic forestry by the Council, the chief being uncertainty of supply; this being dependent on private nurserymen. There is also the disadvantage of obtaining trees from widely diverse soils and climates—Invercargill, Dunedin, Ashburton, and Christchurch—for planting on poor, dry, high-lying inland localities, subject to intense frost as well as hot drying winds.

The Council's work being thus considerably hampered, it was felt that further planting operations should be undertaken by this Department, and the following letter was accordingly addressed

to the Hon. Minister of Lands:

"Sir,-I have the honour, by direction of the Mackenzie County Council, to respectfully bring under your notice the advisability of establishing a forest-tree nursery in this county—say, at Silverstream.

"My Council would point out that the Mackenzie County is exceedingly favourably adapted to the growing of forest trees, and at present, with the exception of a few plantations, is almost treeless. They would further point out that there are numerous reserves of Crown lands laid aside treeless. They would further point out that there are numerous reserves of Crown lands laid aside specially for tree-planting. I am to say that the Council hope you will give this matter your favourable consideration.—I have, &c., "R. L. Banks,

'The Hon. Minister of Lands, Wellington."

Clerk to Council."

The reply to above being favourable, instructions were issued to report on the scheme and submit proposals for the acquisition of a suitable block of land for nursery purposes. Two sites have been inspected—one close to Fairlie, and another some seven miles distant, on the main Mount Cook Road—but neither are deemed altogether desirable. Another area has, however, been under consideration, and no doubt before next report is issued operations will be in progress.

CHANGES IN THE STAFF.

Owing to the lamented deaths of Mr. James Henderson, Forester at Waiotapu, and Mr. Manuel Stark, Nurseryman in Charge at Hanmer Springs, several changes were rendered

Mr. William Cromb, first Assistant at Starborough Nursery, took charge at Hanmer Springs, and was afterwards transferred to Starborough as Nurseryman in Charge, vice Mr. N. Craig, appointed to the position of Nurseryman in Charge at Kurow. Mr. T. B. Curle, Assistant Forester at Waiotapu, succeeded Mr. Henderson as Forester in Charge at that station for some months before being promoted to Officer in Charge at Hanmer Springs, whilst Mr. Roderick McRae, from Conical Hills Plantation, succeeded Mr. Curle at Waiotapu.

REGENERATION OF NATIVE FORESTS.

Last year's report contained proposals for the perpetuation of our kauri forests, but so far the

information sought from the Auckland Commissioner has not been received.

During an extended visit to Westland and Southern Nelson particular attention was given to the possibility of regenerating the silver-pine (Dacrydium Colensoi—erroneously called D. West-landicum in Kirk's "Forest Flora")—and yellow silver-pine (Dacrydium intermedium). As is well known, these timbers are largely used for railway-sleepers and telegraph-poles, for which purpose they are unrivalled for durability.

In Westland the sawmillers and sleeper-getters do not seem to distinguish between silverpine and yellow silver-pine, both species being utilised for similar purposes. The former extends from West Wanganui Inlet, Nelson, southwards to Martin's Bay, in Otago, and from sea-level to 3,000 ft. altitude; although the largest trees seem to be found at comparatively low altitudes and. on swampy, sour land, which is absolutely unfit for any other purpose than the growth of this valuable timber-tree.

It is significant that, during a full month's constant travelling in Westland, I could not find a single silver-pine tree large enough for cutting as a fencing-post, although inquiries were made from the Commissioner and from the Crown Lands Rangers who accompanied me on my visit.

Sleeper-cutters seem to have practically cut out the whole of this timber within reasonable distance of horse-tracks or roads, and in doing so have destroyed millions of young seedling trees in "snigging" or in squaring posts or sleepers, and then putting a match to the tops and chips.

The visitor to a West Coast forest cannot fail to observe myriads of seedling trees of all kinds, which germinate in the vicinity of a recently felled tree. So soon as an opening is made in the forest by removal of trees, thus giving the necessary light for germination, countless numbers of seedlings subsequently appear. Here we find Nature renewing the forest with a lavish hand,

while her efforts are frustrated by fire and stock.

The whole of the West Coast Crown lands, whether forest or open, are available as a cattlerun on the payment of a small fee to the local bodies. There are a number of scenic reserves containing magnificent specimens of rimus, kahikatea, matai, &c., in addition to the usual undergrowth, shrubs and ferns; and, although heavy penalties are enforced for the destruction of any plant, shrub, or tree by man, cattle have free access to wander where they please. In the Official Year-book, 1904, page 643, the Commissioner of Crown Lands says, "All over the coastal lands, along the slopes of the lower hills, and in the bottoms of the valleys large herds of cattle are bred and fattened on the dense undergrowth of the forest.'

Being in the goldfields area, the Commissioner of Crown Lands has no jurisdiction over ordinary forest lands, the licenses to cut timber being granted by the Warden, while few State

forests exist in the district.

In a recent parliamentary paper (C.-6, of 1905) a report was furnished on the "Timber Industry of New Zealand." From this report it will be seen that there are fifty-one sawmills working in Westland, employing 609 hands, and cutting 37,250,000 ft. of timber-chiefly red, white, and silver pine—per annum. No information, however, is given as to the number of sleeper-getters, nor the approximate quantity of timber thus utilised. In 1904, however, 857,777 silver-pine sleepers were cut. . (Year-book, 1904.)

It is stated that "three-fourths of Westland is untouched as regards timber," and that the total quantity available both on private and Crown lands is 6,776,300,000 superficial feet, covering an area of 2,183,358 acres, or an average of 3,104 superficial feet per acre. Particulars as to the southern portion of Nelson are not at present available.

It must be remembered that a very large proportion of the West Coast is very inaccessible—narrow valleys with steep, shingly hillsides—from whence it is impossible to remove timber at remunerative rates; while as the mountains are ascended the timber decreases in size, and over

4,000 ft., there seems to be no arboreal vegetation.

In these deep valleys, and on the lands above 2,000 ft. altitude, it would be a fatal mistake to allow timber to be removed. It is not the actual removal of mature trees which is to be feared, but the wholesale destruction that inevitably follows. In felling trees the tops and branches are left to rot or burn, to remove the timber tracks are necessarily opened out, and are made use of by cattle which destroy and keep down undergrowth, the thin coating of vegetable deposit is gradually washed away, and in time nothing is left but barren hillsides, from which the rain-water pours off to swell streams and rivers, with disastrous effects to the lower valleys.

None the less important is the clearing of forests along the banks of rivers, as is at present proceeding north of Inangahua Junction, on the Buller River. Here it is evident that the usual chain-reserve regulation is being entirely disregarded, destroying both the magnificent scenery and the natural protection of river-banks against erosion during floods. There is also grave danger to bridges by an accumulation of logs and other débris against piles or cylinders, whilst at the mouth of the river (where dredging operations are necessary to keep the bar open) a considerable amount of time and money is annually expended in removing timber brought down

from the cleared flats along river-banks.

While on this subject it may not be out of place to draw attention to the disastrous results which will eventually follow the clearing of blackberry along many of the river-banks of Westland, Nelson, and Marlborough. Under the Noxious Weeds Act settlers are compelled to clear their land of this pest; but as in many cases it has entirely supplanted the native vegetation as a protective covering to the banks of streams and rivers, its total eradication will certainly be followed by the loss of valuable lands, while much labour and heavy expenditure will be necessary to prevent further encroachment.

From the foregoing the general conclusions may be summarised:—

(1.) Silver and yellow pine of marketable dimensions are rapidly being cut out, except in

(at present) inaccessible situations.

- (2.) These pines—the most lasting and durable of all known pines—are being converted into sleepers to the number of at least one million annually, while large quantities are being utilised for other works.
- (3.) In recently cut-out areas seedlings are appearing in countless numbers, but owing to fire and stock the majority of these perish.
- (4.) That lands on which these pines are chiefly found is absolutely worthless for other purposes.
- (5.) That the sources of rivers and streams should be protected from operations by the sleepergetter.

(6.) Owing to the non-observance of the law in regard to chain reserves along rivers, irreparable damage is being done.

(7.) Only three small timber areas have been declared State forests in Westland, consequently

the Conservator of Forests has little control.

The question to be considered is, whether the cut-out forest lands of the West Coast are to be conserved under proper regulations with the object of securing a continuous supply of timber for all time, or are they to remain in their present state—merely as cattle-runs?

Delay in deciding this important matter is fatal to successful results, in this way: Mature trees which supply the necessary seed for the perpetuation of the forest are being rapidly cut out, and it will be too late to think of conserving with a view to natural reproduction when seed-bearing parent trees are all removed, unless transplanting of seedlings is resorted to—an exceedingly costly method compared with natural regeneration.

It is premature to submit proposals for conservation until the main issue is decided, and I earnestly urge that due consideration will be given this important subject an an early date.

PLANTATION RESERVES.

In previous reports (1902-3 and 1903-4) attention was drawn to the necessity for setting aside or acquiring lands throughout the colony for plantation purposes.

Every year the demand for land increases, and unless Crown lands are reserved for this purpose in the near future plantation-work must cease in many portions of the colony where nurseries are already established.

In Tapanui district the Department propose resuming four small grazing-runs adjoining Conical Hills Plantation. The total area is 2,622 acres 2 roods 11 poles, while the cost of resumption will be about £750. This will be a sufficient area to maintain the present rate of planting for from six to eight years.

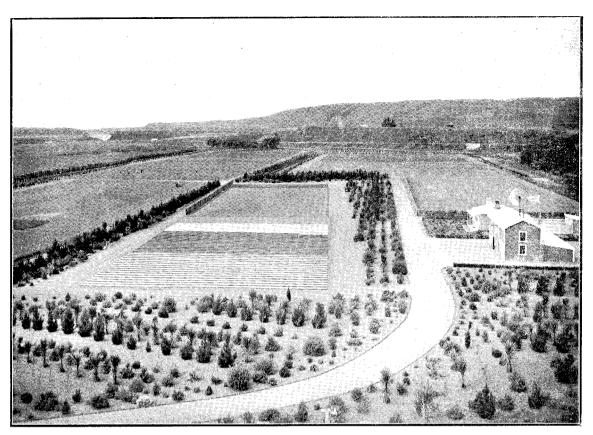
At Maniototo there are only 500 acres available for planting, the remaining numerous plan-

tation reserves being merely narrow strips of land fit for shelter purposes only.

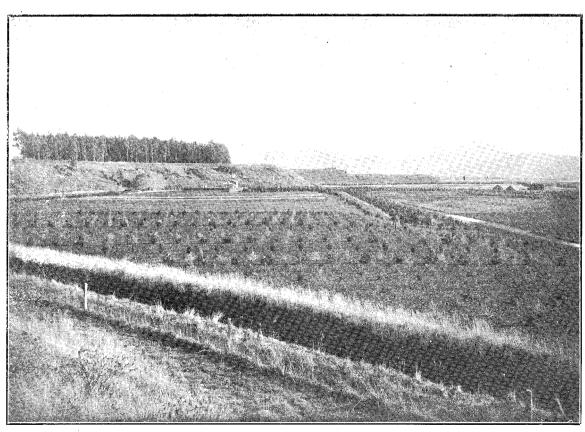
In the Kurow district (where operations are already in progress) there is no land available for

planting, but the question of resuming Crown lands now under lease is being considered.

This year's operations will complete the present area at Hanmer Springs, and during the summer it is proposed to remove the present prison-camp to a 500-acre block of Crown lands some two miles further on—adjacent to Jollie's Pass. There are ample and suitable Crown lands in this district, but at present they are leased as runs.



STARBOROUGH NURSERY IN 1905.



STARBOROUGH NURSERY FROM RAILWAY-LINE.

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A difficulty in regard to the resumption of portions of pastoral runs is that the lessees are deprived of the low country for wintering their stock. Unfortunately, however, trees cannot be grown either successfully or profitably at high altitudes, and there is a possibility of curtailing winter country (if acquired for forestry purposes) to such an extent that the remaining portions are unworkable.

In central Marlborough there remains only sufficient land to continue planting operations for two years, while no Crown lands whatever, suitable for plantations, are available for this purpose.

In the far North we have ample State forest reserves, on the Puhipuhi Block, to maintain present output for many years; but the demand for land is so pressing that there is a danger of such reserves being opened for settlement.

Rotorua district is, fortunately, well supplied—indeed, the area available may be said to be

practically unlimited.

Adjoining the Waiotapu Plantation it is proposed to ring-fence some 3,000 acres on the block known as Maungakakaramea Reserve, and, later on, to remove the present prison-camp to a central site within this area.

In addition to the districts already mentioned, large areas should be set aside in Taranaki,

Hawke's Bay, Wellington, Nelson, Westland, and Southland.

PLANTING OLD-TAILING AREAS.

At the recent mining conference, held in Wellington, the following resolution was carried: "That this conference recommend that old-tailing areas should, where suitable, be planted with forest trees." Officers of the Mines Department indicated a desirable area for experimental purposes near Waitahuna, on the Lawrence branch-railway. This locality was duly inspected purposes near waitanuna, on the Lawrence branch-railway. This locality was duly inspected and reported on as favourable for tree-growing, and subsequently an area of about 11 acres was selected, fenced, and preparations made to plant same with a variety of forest trees. This work will be completed during the coming spring.

The successful growth of trees on "dredged" areas has already been demonstrated at Waikaka and other places in the Gore district, where larch, spruce, alder, pines, and other trees are thriving amazingly. In considering the question of tree-planting on mining accounts the considering the question of tree-planting on mining accounts.

kaka and other places in the Gore district, where larch, spruce, alder, pines, and other trees are thriving amazingly. In considering the question of tree-planting on mining reserves, the possibility of redredging or otherwise reworking of tailings should not be lost sight of. New and cheaper methods of treating large quanties of material are constantly being discovered, and what is at present considered unpayable ground may in time be deemed sufficiently rich for reworking.

Another matter in connection with old tailings deserves special mention. In almost every portion of Otago, Southland, and the West Coast, where dredging or sluicing operations have been in progress for some time gorse broom, and other povious weeds arrive up and court the

been in progress for some time, gorse, broom, and other noxious weeds spring up and cover the ground with alarming rapidity. Holders of claims do not seem to be held responsible for the suppression of such growths, but, whether the land is subsequently reworked by dredges or utilised for planting purposes, a heavy expenditure will be involved in clearing and eradicating.

The Department of Mines also suggested an area of 1,000 acres on the Waikaka commonage as suitable for planting. On inspection, however, it was found that, owing to the block being intersected by several roads (which would render fencing an expensive item) and the enormous cost of clearing the area of broom and gorse, it was decided that no action be taken in the mean-

The Inspecting Engineer, in his recommendations, writes as follows: "The local body does not appear to be doing anything to check the spread of gorse, which is now growing on this reserve; and if something is not done at an early date to check the gorse the seed will be carried down the valley, and lead to considerable areas of land being prejudicially affected."

Prison Labour.

From the reports of the Foresters in charge of the tree-planting by prisoners it will be seen

that, on the whole, this class of work has been satisfactory.

At Hanner Springs, Dumgree, and Waipa (Whakarewarewa) Prison-camps the Forester in Charge personally directs planting operations; but at Waiotapu Plantation instructions have been issued that the Forester is to communicate his wishes to the Gaoler, who will instruct the warders, the latter directing the prisoners, and that the planting of trees by prisoners at Waiotapu is entirely in the hands of the Justice Department.

THE HARDY CATALPA (CATALPA SPECIOSA).

The numerous inquiries for information in regard to this tree call for some remarks on the experience of the Department. During the spring of 1903 a large number were raised from seed, and by the end of the following autumn these plants had made rapid growth, averaging 9 in. in height. The following spring they were transplanted into nursery-rows, and for about twelve months they remained in about the same state as when transplanted. During the past summer they have made better growth, but the best progress is noticeable where the trees are sheltered and in the lower-lying and damper portions of the ground, but the crop as a whole is unsatisfactory

The chief cause of failure are unseasonable frosts which are inevitable in this district during the early summer months. A variety of situations were tried-low-lying, moist, dry, and exposedbut the results in all cases were the same. Given an equable climate and a fair amount of natural shelter, I am of opinion that the *Catalpa speciosa* would thrive even on poor soil. The best results, however, are to be got on moderately rich, well-drained land, with an average rainfall

and plenty of shelter; without these conditions it is useless to hope for success.

In order to further test its adaptability in various portions of the North Island, it is proposed to supply lots of from 100 to 1,000 trees to settlers at a nominal charge.

GENERAL.

My connection with the Scenery Preservation Commission terminated on the 31st March, from which date I resumed my ordinary duties, and I have to thank Mr. H. A. Goudie, Nurseryman in Charge at Rotorua, for the able manner in which he has carried on the supervision of the Department during the year, as well as the compilation of this report.

The following are the reports of various stations.

EWEBURN NURSERY.

(Area, 49 acres; altitude, 1,400 ft.)

During the past year rain fell on 113 days, with a total of 17.41 in., the maximum monthly fall being 3.82 in., recorded in January. The minimum shade temperature, 13 deg. Fahr., was registered on the 7th June, and frost occurred on 170 nights. The highest temperature was 81 deg., on the 13th December.

Frost occurred during every month of the year, and the rainfall was somewhat higher than

last year, and distributed over a greater number of days.

The total rainfall since the inception of the nursery is 154.23 in., or an average of 16.59 in. for the past nine years, and the number of days on which rain has fallen is 759.

The highest reading of the thermometer was 96 deg., in February, 1896, and this temperature

has never since been reached.

The last spring was a very dry one, and it was feared that the lined-out trees would suffer, but as rain set in directly after planting the situation was saved, and the crop is the finest grown since the initiation of the nursery.

Pinus maritima, which was grown for experimental purposes, made very good growth and transplanted well. Pinus halepensis have also made very good growth, although they were a total failure the previous year after being lined out, owing to the damp condition of the soil consequent on excessive rains.

The trees on the seed-beds have made fair growth, but the crop of *Pinus Laricio* was not as good as it should be, and a large number "damped off" after germinating.

Larch is a very good crop, and all the other varieties sown have done well. One pound of seed each of Pinus Jeffreyii and Pinus Torreyana was sown for trial, and both have grown satisfactorily, but as they have not yet had a winter to contend with it is hard to give a definite opinion as to their suitability for extensive growing here.

The number of trees "lined out" was 356,636, at a cost of 4s. 7½d. per 1,000.

The number of trees sent out to Government plantations during the year was 157,400, their

value being £410 2s.

The number of trees sent out to date amounts to 772,562, and their value £2,257 9s. 5d.

The number of trees of various ages in the nursery at the 31st March was 945,950, their total value being £1,672 13s. 9d.; and the number raised since the commencement of operations is 1,694,582, of a value of £3,861 0s. 5d. The details of the preceding figures will be found in Schedules A to A³ (appended), and the summaries.

During the year the horse and hand hoes have been kept in use as much as possible, and weeds,

&c., kept from seeding.

Land not required for planting was utilised for growing horse-feed, and an area of about 4 acres was sown down in oats, the yield being 11 tons of good oaten sheaf. Although the rainfall was not heavy, this shows what can be grown in this district with good cultivation.

The old workshop A new stable and workshop of wood, with concrete foundation, was erected. has been converted into men's quarters, and is now convenient and comfortable. The whole of

these improvements were carried out by nursery labour.

The average number of men employed during the year was five (day-wages). Details of expenditure, values, &c., will be found on schedules appended. The following is a record of rainfall and temperature for the year:-

EWEBURN NURSERY

Month.	Rainfall.	Number of Days Rain fell.	Maximum Tempera- ture.	Date.	Minimum Tempera- ture.	Date.	Number of Day on which Frost occurred.
1905. April May June July August September October November 1906. January February March	Inches. 1.65 0.70 1.47 0.69 0.38 1.63 0.92 2.01 1.71 3.82 2.07 0.36	11 4 8 7 6 13 8 13 15 14 10 4	Degrees. 68 62 50 48 48 54 60 76 81 78 74 73	1st 10th 21st, 25th 23rd 2nd, 31st 25th 5th, 6th, 17th 13th 13th 11th 11th, 14th 2nd	Degrees. 22 16 14 14 16 25 21 26 26 28 31 25	23rd 25th 3rd 4th 11th 25th 11th 24th 24th 7th 20th 30th	13 23 28 31 29 17 9 7 2 4 2 5

A. W. ROBERTS. Nurseryman in Charge.

NASEBY SURVEY PADDOCK PLANTATION.

(Area, 175 acres; altitude, 1,700 ft.)

All trees at the above plantation have made very satisfactory growth. During the year weeds have been kept down around the smaller trees, and a strip of land ploughed around the fence-line in case of fire from outside.

Trees to the number of 19,650 were used to fill up blanks with *Pinus ponderosa*, in place of *Pseudo-tsuga taxifolia*, which have proved useless here. The area planted, therefore, remains at 132½ acres, and the total number of trees in the plantation at 360,185. The cost of planting trees was 16s. 8d. per 1,000.

Statements of expenditure and values are appended.

A. W. ROBERTS, Nurseryman in Charge.

GIMMERBURN RESERVE.

(Area, 420 acres; altitude, 1,200 ft.)

The trees at the above plantation have made satisfactory growth, considering that there have been two dry seasons in succession. Trees planted last season have made better growth than those planted during the previous year, many having put on fully 6 in. of vertical growth for the season. The larch planted this season did not do well, and there will probably be about one-third succumb. The ground was very dry and rough and the trees were off the seed-beds, which may account for this failure. The rainfall would probably not amount to more than half of what was recorded at Eweburn, hence the difficulty of getting trees to succeed the first year. As the ground is very hard and lumpy, it has been decided to crop the next 100 acres with oats or turnips prior to planting with trees.

Pinus Austriaca, growing not a mile away from this plantation reserve, are known to have

attained a height of from 8 ft. to 10 ft. in seven years.

Trees planted during the year number 129,100, and the new area covered was 16 acres. The plantation now contains 223,775 trees, which occupy an area of $76\frac{1}{4}$ acres.

The average cost of planting and digging half-holes was 17s. $7\frac{1}{2}$ d. per 1,000, and the cost of

pitting 11s. 6d. per 1,000.

The average number employed during the year was one man (wages).

An area of 68 acres was sown down in oats, and the estimated yield is 2,000 bushels, which

will be distributed to the various nurseries.

Two new "paroid" huts have been erected on skids for the use of the workmen, making very warm dwellings, which are much appreciated. These are each 14 ft. by 12 ft., and are lined throughout with tongued and grooved timber.

Details of expenditure, values, &c., as per statements appended.

A. W. ROBERTS,

Nurseryman in Charge.

TAPANUI NURSERY.

(Area, 120 acres; altitude, 500 ft.)

During the past year rain fell on 119 days, with a total of 43.95 in., the maximum monthly fall being 6.45 in., recorded in October. The minimum shade temperature (21 deg.) was registered on the 2nd July, and the highest (90 deg.) on the 15th February.

An excellent mild winter was experienced, and for the months of May, June, July, and August a total rainfall of only 7.53 in. was recorded.

During the four following months, when favourable weather is essential to successful nursery operations, no less than 23 10 in. of rain fell, causing considerable delay in work, and to a great extent interfering with subsequent progress in tree-growth.

Hardwood-seed sowing was carried on in the early part of July, the usual amounts of ash, oak,

and sycamore being sown with fair results.

Preparations were made for conifer-seed sowing on the 4th October, and this work, through repeated breaks in the weather, was not completed until the 23rd October. Heavy continuous rain immediately followed, and a hard crust soon formed on the surface of the seed-beds. Notwithstanding this, an average germination resulted in all species, with the exception of Picea sitchensis and Pseudo-tsuga taxifolia.

The continued absence of sunshine and warmth was responsible for the damping-off of fully two-thirds of the entire larch-crop, and the estimate of one-year-old seedlings of all species was

reduced to 742,625.

The two-year-old trees in seed-beds, although not making the average growth, are mostly healthy plants, and a large percentage of the total—1,242,500—is sufficiently strong for permanent

planting this year.

Lining out.—Transplanting of one- and two-year-old trees was commenced on the 17th August, extended over five weeks. During that period 523,700 seedlings were transferred to nurseryand extended over five weeks. lines at a cost of 2s. 9½ per 1,000. The percentage of deaths in this operation was very slight, although their growth is only consistent with the backward season experienced.

Two years ago about 70,000 Picea excelsa were lined out, but their stunted appearance at the

termination of the season made it necessary to allow for an extra year's growth. These have

developed into well-grown, f brous-rooted trees, averaging about 9 in. in height.

The total number of trees of all ages in the nursery at present is estimated at 2,565,675, valued at £4,008 13s. 6d.

During the winter months 713,827 trees, as per Schedule B3, and valued at £2,110 17s. 5d., were transferred to the following plantations, domains, &c.: Conical Hills Plantation, 623,000; Dusky Hill Plantation, 70,075; Hanmer Springs Plantation, 17,525; Industrial School, Burnham, 2,220; Domain Board, Gore, 90; Tourist Department, Hanmer Springs, 200; Tourist Department, Queenstown, 392; Beautifying Association, Waikoikoi, 325.

Eight thousand five hundred Robinia pseudo-acacia and 100 berberis were received from Eweburn Nursery. The former were sized, and 6,975 sent to Conical Hills Plantation, the

remainder being lined out for another year.

One hundred Catalpa speciosa from Rotorua Nursery were also planted, but the first year's

growth would indicate that the Catalpa species are not suited to this climate.

The total number of trees grown to the 31st March, 1906, is 6,635,705, being valued at £17,556 5s. 11d.; and the total number of trees transferred to plantations, &c., since the initiation of nursery is 4,122,330, representing a value of £13,643 4s. 5d.

The shelter and ornamental plantations laid out during the past three years are making rapid headway, and many of the trees at the southern boundary of nursery have grown to a height of fully 12 ft. 1,770 additional shelter trees and shrubs were planted out permanently in various exposed corners of property.

Buildings: The galvanised-iron sizing-shed, erected in May last, has not only enabled all winter work to be carried on with greater facility, but has proved itself indispensable as a tool-house and

shelter-shed during stormy weather.

All ground reserved for coming season's lining-out operations is now in good order, having in the early spring received a double ploughing to a depth of about 10 in., and since remained in fallow. Minor improvements in the form of draining, road-making, extension of shrubbery, and general maintenance were also effected.

The expenditure for the year amounted to £1,516 17s. 6d., providing employment for an

average of twelve men.

The three yearling fillies are developing into useful-looking animals, and their value has been

increased to £15 per head.

About 35 tons of oaten sheaf were harvested from the extension property, but as we have now six horses and four yearlings to provide for, a considerable amount of this yield will have to be chaffed for our requirements. About 8 tons of rye and clover, and $4\frac{1}{2}$ tons of carrots, especially grown for winter horse-feed, were also harvested under favourable conditions.

Details of trees grown and statements of expenditure for the year are appended.

The following is a record of rainfall and temperature for the year:—

Month.		Rainfall.	Number of Days Rain fell.	Highest Reading of Ther- mometer.	Date.	Lowest Reading of Ther- mometer.	Date.	
*8.55					<u>'</u>	*	İ	
1	1905.		Inches.		Degrees.		Degrees.	
April			3.99	14	78	$6\mathrm{th}$	31	$18 \mathrm{th}$
May			1.94	5	70	6th, 11th	25	$26\mathrm{th}$
June	•••		2.60	10	59	$15\mathrm{th}$	22	$28\mathrm{th}$
July	• • •		1.09	3	64	21st	21	2nd
August			1.90	6	65	$26\mathrm{th}$	24	$28 ext{th}$
September			5.62	13	63	$6 \mathrm{th}$	30	9th
October			6.45	7	75	$7 \mathrm{th}$	29	3rd
November	• • •		5.57	15	88	$13 \mathrm{th}$	35	3rd, 10th
December			5.46	14	85	9th, 13th	34	31st
	1906.			į (,		
January	•••		3.12	18	85	$13\mathrm{th}$	36	2nd, 22nd
February	•••		2.70	12	90	$11\mathrm{th}$	37	15th
March	•••		3.51	12	83	$15 \mathrm{th}$	31	10th
Tot	als		43.95	119				•••

R. G. Robinson,

Nurseryman in Charge.

DUSKY HILL PLANTATION.

(Area, 845 acres; altitude, 400 ft. to 800 ft.)

Satisfactory progress has been made in growth of all trees in this plantation, with the exception of ash, spruce, and sycamore that are planted in situations exposed to the prevailing winds.

The season has been an exceptionally wet and cold one, and not at all conducive to rapid progress of these unsheltered trees. A violent hail-storm passed over the plantation, and in consequence many of the larch leaders were broken. As a result, double leaders were found issuing from the heads of injured trees; but on the removal of one of these shoots the trees quickly outgrew any apparent defects through the injury.

grew any apparent defects through the injury.

Trees to the number of 70,075 (as per Schedule B⁸) were planted throughout where failures resulted in previous plantings, at a cost of 18s. 8½d. per thousand. It is anticipated that an additional twenty thousand trees, planted next year, will complete replanting operations, and more time

may be given to the general maintenance of the plantation.

Ground was prepared, and 21,950 acorns planted in situ where vacancies occurred, at a cost of 14s. 71d. per thousand.

23

An expenditure of £230 Os. 2d. was incurred in general maintenance. This item includes clearing fern from around young trees, pruning, ploughing roads and firebreaks, and making drains.

About 16 chains of track were formed -costing 4s. per chain-to give access to various parts

of the plantation.

A considerable amount of time was spent in removing manuka scrub, which has grown strongly since last cutting. This work is necessary, as the scrub in being blown about by the wind comes in contact with the leaders of trees growing within reach, and causes direct injury to

Cutting Canadian thistle and ragwort also provided a fair amount of labour during seeding-

time, but as the trees make headway the spreading of noxious weeds will be gradually suppressed.

The average height of trees planted during the first year's operations on this plantation is about 13 ft., and through the absence of sunshine, caused by branches of trees forming a canopy overhead, undergrowing vegetation is fast becoming extinct.

The expenditure for the year amounted to £487 6s., giving employment to an average of four

Details of expenditure and values are appended.

F. Benfell, Assistant Forester.

R. G. Robinson, Nurseryman in Charge.

CONICAL HILLS PLANTATION.

(Area, 1,050 acres; altitude, 400 ft.)

Notwithstanding the absence of warm forcing weather, a very favourable growth has been made by trees planted throughout, and pines may be specially mentioned in this respect.

Trees to the number of 623,000 (as per Schedule B³) were planted, occupying an area of 228¾ acres, and the preparation of ground for the planting of 239,600 acorns was carried on by day labour, at a cost of 14s. $3\frac{1}{4}$ d. per thousand.

The area for the year's planting amounted to 2784 acres, making a total of 6643 acres,

containing 2,074,171 trees.

Pits to the number of 464,070 for tree-planting were made by contract, at £1 5s. per thousand, this cost being increased to £1 6s. $8\frac{1}{2}$ d. by inclusion of Forester's salary. 98,689 grubber-pits were also prepared by contract, at £1 per thousand; actual cost, £1 1s. 64d.

Road-formation was continued, about 147 chains being ploughed and partly formed in readi-

ness for the coming season's delivery of trees.

One hundred and thirty-seven chains of additional firebreaks were ploughed outside boundary-

fence to minimise the risk of fires from adjoining properties.

Pinus radiata, to the number of 6,075, were planted on ridges as breakwinds. many of the trees were rather large for transferring to such exposed places, only a small percentage failed to succeed.

General maintenance: A large amount of work is now necessary in clearing fern and other growth from young trees, and it has been specially noticed that this work is accomplished with more satisfactory results if carried out before spring-time, as a very decided check to growth is noticeable when removal of immediate shelter is undertaken whilst the young trees are making their annual growth. Pruning, cutting gorse and manuka scrub, and the removal of noxious weeds, and rabbiting were also carried on.

It is anticipated that the whole of the ground available for pitting on this plantation will be completed before the expiration of another season, and in view of this fact an additional area of about 1,600 acres adjoining the plantation has been recently acquired for forestry purposes, and fencing and pitting operations will be carried on in this extension during the ensuing year.

For the next season about 900,000 trees and acorns will be available for planting.

The expenditure for the year amounted to £1,872 16s. 11d., providing work for an average of

Details of expenditure and values are appended.

H. Howe, Forester.

R. G. Robinson, Nurseryman in Charge.

WAITAHUNA PLANTATION, OTAGO.

(Dredged area, 11 acres; altitude, 331 ft.)

To test the suitability of old dredged areas for forest-tree planting, an area of 11 acres immediately adjoining the township, on the southern side, has been selected for the purpose, and operations were commenced early in February last.

Forty-three chains of wire-netting fence were erected by day-labour, at 4s. 6d. per chain, and included in this cost is extra labour in levelling off to some extent the fence-line, where tailing

deposits have naturally created an uneven surface.

As may be expected, these dredged areas when lying idle are easily and speedily converted into prolific gorse wastes by the seed being conveyed by floods, or else blown from hedges in the vicinity and deposited there, where germination readily follows.

An expenditure of £25 is necessary to clear the enclosure of this scrub before pitting for tree-

planting can be proceeded with.

It would be to the interest of the Government and landholders generally if lessees of dredgingclaims were required to keep noxious-weed growth in check during the currency of their lease, as

the spread of gorse and broom to properties lower down the valleys will likely in the near future prove disastrous to holders of properties in that direction if the matter is not attended to

Drains were made at various places through the property to assist in draining the low-lying

It is proposed to prepare 30,000 pits during the coming winter, in readiness for planting the enclosed area with suitable hardy trees in the early spring-time.

The expenditure incurred since the initiation amounted to £39 9s. 7d.—total cost of fencing material not included—providing employment for two men for two months.

Details of expenditure and values are appended.

D. Risk, Foreman.

R. G. Robinson, Nurseryman in Charge.

HANMER SPRINGS NURSERY.

(Area, 20 acres; altitude, 1,225 ft. (approximately).)

During the past year rain fell on 164 days, with a total of 62 18 in. September and February were the westest months, 10.45 and 10.37 in. respectively being recorded. The maximum shade temperature (91 deg. Fahr.) occurred on the 13th December, and the minimum, 13 deg., on the 5th June.

No records of the rainfall were taken previous to this year, so that a comparison with other years cannot be made; but old residents regard the rainfall as the heaviest experienced for many

Seed-sowing was commenced on the 31st October—fully a fortnight later than the year previous—and was finished on the 6th November. All species germinated well, and are a good crop, with the exception of Oregon pine, this being practically a failure. As only 3 lb. was sown.

the loss was not great.

Lining out was started early in August, and finished on the 20th September, 416,840 trees being dealt with, at a cost of 3s. $7\frac{1}{4}$ d. per thousand, the area occupied by the same being about $4\frac{1}{2}$ acres. Trees to the number of 118,000, comprising larch, Oregon, and Aleppo pines, were lined out, at a cost of 2s. 51d. per 1,000. Showery weather was experienced while the work of transplanting was in progress, giving the trees a splendid start, and all have done well, except *Pinus halepensis*, of which fully 30 per cent. have died. Apparently this tree is not suitable for planting at Hanmer.

The number of trees raised in the nursery during the year was 750,000, valued at £759 5s.

(See Schedule E.)

The estimated number of trees in the nursery on the 31st March, 1906, was 1,395,840 (see Schedules E to E2), valued at £2,268 5s. 2d. The total number of trees grown in the nursery since its initiation is 1,378,000, valued at £1,402.

Trees-number, 35,210, valued at £61 4s. 7d.—were transferred from the nursery to the planta-

The estimated number available for the coming season is 400,000.

Nine new seed-frames were made by prison labour in a very satisfactory manner.

About 2 acres of scrub was cleared off a portion of the nursery area, and the ground ploughed and cultivated in readiness for lining-out purposes next season.

The average number of labourers (free) employed during the year was four (including one boy). Details of expenditures and values, and schedules of trees are appended.

The following is a record of rainfall and temperature for the year:—

Month.		Rainfall.	Number of Days Rain fell.	Maximum Tempera- ture.	Date.	Minimum Tempera- ture.	Date.
1905.		Inches.		Degrees.		Degrees.	
April		2.85	10	83	1st	27	$19 \mathrm{th}$
May		3.07	10	69	$10\mathrm{th}$	25	19th, 26th
June		7.705	14	64	14th, 23rd,	13	5th
					$24\mathrm{th}$		
July)	4.01	11	66	$24 \mathrm{th}$	17	3rd, 4th
August	.,.	3.45	13	68	$18 \mathrm{th}$	18	$11 \mathrm{th}$
September		10.45	21	66	17th, 18 th	29	2nd
October		5.28	14	74	$24 \mathrm{th}$	26	$15 \mathrm{th}$
November		4.67	14	78	5th, 29th	32	12th, 16th
December		3.135	13	91	13th	34	2nd, 24th
1906.	ļ]	•
January		4.13	17	86	$14 ext{th}$	32	7th, 24th
February		10.37	16	81	2nd	33	19th, 20th
March		3.06	11	82	2nd	30	14th, 27th
Totals		62.18	164				•••

HANMER SPRINGS PLANTATION.

(Area, 600 acres, approximate; altitude, 1,225 ft.)

The past year has been an exceptionally good one for plantation-work, an abundant rainfall being recorded all through the year. The trees have done well, the past season's planting being a thorough success. The older trees in the plantation have made good growth, and larch in many instances have grown 3 ft. to 4 ft.

Owing to rains and heavy frosts in June, about five thousand Norway spruce, planted on a swampy piece of land, were thrown out of the ground. Losses of this sort can scarcely be guarded

Acorns planted in situ during the year numbered 70,900, and 52,735 trees were planted, making a total of 123,635 (see Schedule E^s). Of this number 11,690 trees and 23,500 acorns were used to fill up blanks in previous plantings. The area planted during the year was 321

The total number of trees in the plantation to date is 788,270, of which 374,200 have been grown from seed sown in situ. The area planted to date is 285 acres.

Marking 315,760 pits by free labour, for prisoners to open, cost 8s. 2ad. per thousand.

286,600 pits are available for the coming season's planting.

To drain several swamps 132 chains of drains were cut, at a cost of 4s. 4d. per chain.

A tool-house and implement-shed was built by a prisoner, the workmanship being all that could be desired.

Land to the extent of 92 acres was cleared of scrub during the year for tree-planting purposes. By doing a little rabbiting occasionally the pest has been kept well down, and no damage has been done by them.

The expenditure for 1905-6 was £443 7s. 9d., the total expenditure since the initiation of

the plantation being £2,567 9s. 3d.

The value of improvements for the year 1905-6 was £1,314 19s. 2d., the total value since the beginning of the plantation being £6,079 13s. 7d.

The average daily number of free men employed during the year was two.

It is expected that next season will complete the planting of the present enclosure, and preparations are being made to fence in a new block. A portion has been cleared of scrub in readiness for pitting operations, and a part of the fence-line chipped. Fencing will be commenced shortly.

Prison labour has again been very satisfactory, the value of the work done amounting to

£563 18s. 2d., or an average of £48 13s. 11d. for each of the 11.58 men employed during the year. The work has been well performed, and the thanks of the Department are due to the prison officers for the ready assistance given in carrying out the various works as directed.

Statements of expenditures and values are appended.

W. CROMB, Assistant Forester.

STARBOROUGH NURSERY.

(Area, 104 acres; altitude, 100 ft.)

Rain fell on 115 days during the year, with a total fall of 33.14 in. The maximum temperature recorded was 96 deg. and the minimum 20 deg. The rainfall for the past year has been much above the average for this district. Old settlers state that a similar season was experienced thirtytwo years ago. In a dry district like South Marlborough the visible results of a bountiful rainfall are very marked. The work at the nursery shows in a striking degree the influence of a moist season in the germination of the seeds, the vigour of the seedlings, and the larger number of plants produced per pound of seed sown. Trees in shelter-belts and shrubberies have made wonderful growth, and now afford considerable protection to young nursery-stock.

Seedling trees (one year old): Seed-sowing began on the 29th September and finished on the 5th October. With the exception of one or two small lots every variety sown has germinated well.

The seedlings are strong and healthy, and on the whole are a first-rate crop.

Two-year-old trees have made fine growth, and are strong, healthy stuff.

Lining out trees: This work was begun on the 7th August and finished on the 13th Septem-The weather experienced during this period was showery, but on the whole favourable. transplanted larch have made very strong growth, and are an excellent crop. The one-year Pinus Laricio that were lined out have done well, and the improved condition of the roots should give much better results when these trees are transferred to plantations.

Trees to the number of 642,000 were lined out, at a cost of 2s. 11½d. per thousand, over an area

of 5 acres 3 roods.

The number of trees raised during the year was 900,200, valued at £870 17s. 6d.; and the number of trees in the nursery at the 31st March was 1,533,700, valued at £2,428 17s. 6d. The estimated number of trees available for planting out in plantations is 600,000

The total number of trees raised in the nursery from 1901 to 1906 is 2,165,375, valued at £4,213 5s. 3d.

During the year 371,100 trees were sent to plantations, &c., and their value was £1,252 1s. 3d. The total output of trees to plantations from 1901-6 is 631,675, valued at £1,784 7s. 9d.

The expenditure for the year was £1,362 11s. 6d. and the total expenditure to 31st March, 1906, was £6,523 8s. 10d. The value of stock, improvements, &c., for the year is £4,587 17s. 11d., and the total value to March, 1906, £8,230 13s.

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The nursery-formation, roading, shelter-belts and shrubberies (outlined five years ago) have now been completed. The shelter-belts have made fine growth, and are an object-lesson to settlers in this treeless portion of Marlborough.

Men's quarters: This much-needed work is now completed. Every convenience for the com fort of the men has been provided, and should assist in making them more contented, and cause

them to take greater interest in the work of the Department.

Horse-feed to the value of £113 was grown during the year, and 110 pounds' worth was sent to other nurseries.

The daily average number of men employed was eight.

Details of expenditure, values, and schedules of stock are appended. The following is a record of rainfall and temperature for the year :-

ilia Val	Month.			Rainfall.	Number of Days Rain fell.	Maximum Tem- perature.	Date.	Minimum Tem- perature.	Date.
	1905.			Inches.		Degrees.		Degrees.	
April	1000.			1.07	5	82	1st	30	22nd
May		•••		0.94	5	72	11th	31	21st
June				7.43	12	68	14th	20	6th
T1_				1.80	14	68	$24 \mathrm{th}$	20	19th
August	•••			1.54	11	66	$15 \mathrm{th}$	24	$12 \mathrm{th}$
September				4.04	$\overline{16}$	80	$30 \mathrm{th}$	30	$25\mathrm{th}$
October				6.28	11	79	1st	31	$15 \mathrm{th}$
November			•••	1.77	10	81	21 st	39	16th
December	 1906.	•••	•••	1.69	11	. 90	21st	32	24th
January				2.36	8	96	$26 ext{th}$	35	$7 \mathrm{th}$
February				2.65	5	89	23rd	35	20th
March		•••		1 57	7	88	13th	30	$24 \mathrm{th}$
Totals				33.14	115			·	

N. CRAIG.

Nurseryman in Charge.

DUMGREE PLANTATION.

(Area, 881 acres; altitude, 100 ft.)

The work for the year has been done partly by free labour and partly by prisoners. Free men were employed as follows: Pitting—268,513 pits were dug at a cost of £2 10s. 6\frac{1}{4}d. per thousand. Planting—214,725 trees were planted, at a cost of £1 2s. 1\frac{3}{4}d. per thousand. Improvements by labour, £65 5s. 1d.; digging trenches and heeling-in trees, £10 17s.; supervision of prison labour, £85 8s. 6d.; supervision of free labour, £51 8s. 6d.; cartage of trees, £29 5s.; general maintenance, £22 15s.

The increased area planted during the year was 130 acres, containing 354,250 trees. up blanks on 62½ acres 11,000 trees were used, making a total number of trees planted for the year of 365,250, valued at £1,244 10s. 3d., as per Schedule D³.

All the trees have done well. The splendid rains and good growing weather experienced throughout the year have made an assured success of the work, and the loss over all will not exceed 5 per cent. The trees planted during the two previous seasons are now well established, and are making good growth.

The total number of trees now in this plantation is 536,086, and the total area planted

1921 acres.

REVENUE ACCOUNT.

For 163 tons 17 cwt. 2 qr. of flax the sum of £61 9s. was received, and for rent £22 19s.,

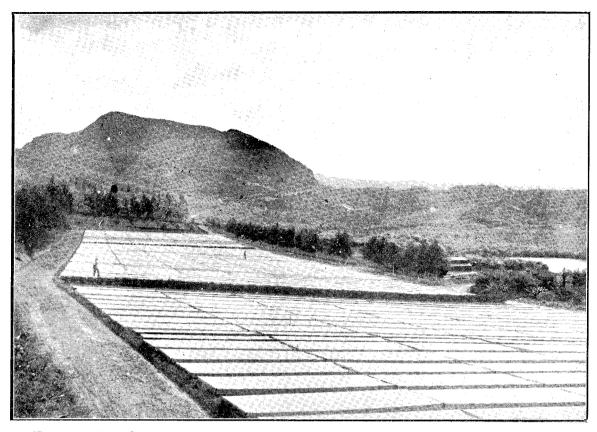
making total receipts £84 8s., which was duly paid to the credit of the State Forests Account.

The expenditure for the year was £1,349 19s. 10d., and the total expenditure to 31st March, 1906, including purchase of land, £6,240 15s.

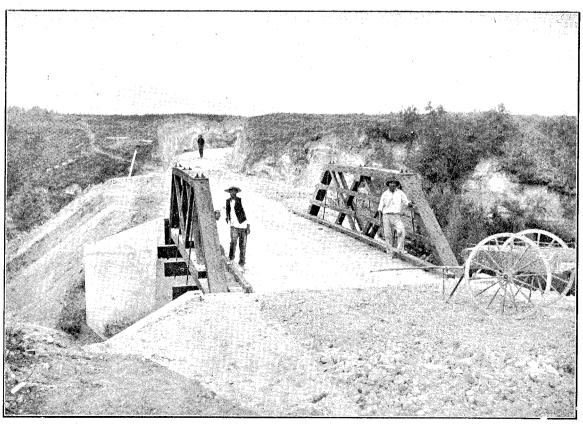
The average daily number of free labourers employed for the year was eleven.

PRISON LABOUR.

The record of prison labour for the year is excellent. The average daily number employed was 27.06. The increased value of prisoners' labour for the year is also satisfactory. For 1904-5 the daily average earnings for each prisoner was 2s. 4d., whilst for 1905-6 the amount is 2s. 9d. The following works have been done during the year, and the values are based on free labour at The following works have been done during the year, and the values are based on free labour at 7s. per day; the average value of work done per man for the year is £29 15s. 7½d.: Pitting, 158,025 pits dug, valued at £332 17s. 6d.; planting 146,150 trees, £159 3s. 8d.; reopening 11,000 pits, £7 13s. 1d.; pit-marking, 174,085 marked, £50 2s. 7d.; roadmaking, £60 4s. 6d.; trenches for trees, £35 8s. 1d.; heeling-in trees, £14 18s. 5d.; pruning trees, £1 13s.; cleaning amongst trees, £107 5s.; repairs to roads, £13 10s. 7d.; taking down Awatere Accommodationhouse, £23 1s. 9d.; total, £805 18s. 2d.



SEED-BEDS, ROTORUA NURSERY.



New Bridge to give Improved Access to Rotorua Nursery.

27 C-1B.

A considerable amount of labour was further employed in effecting improvements to the camp, extending the garden, fencing, growing vegetables, &c. The prison officers have supervised the work with care and discretion, and the men have taken a commendable interest in their work, and on the whole their conduct has been good.

Details of expenditure and values are appended.

D. Buchanan, Assistant Forester. N. CRAIG, Nurseryman in Charge.

ROTORUA NURSERY.

(Area, 50 acres; altitude, 1,000ft.)

The weather experienced during the past year has been most favourable for tree-growing, and it is pleasing to report that the various crops grown at this nursery are extremely good, and in many instances almost phenomenal growth was made. The rainfall during the year amounted to 49.67 in., falling on 169 days, the heaviest monthly fall being recorded for October, when the total fall registered was 7.80 in. on twenty-one days. During the previous year-1904-5-the rainfall amounted to 52.04 in., falling on 153 days.

The maximum shade temperature was recorded on the 4th of December, with 94 deg. Fahr., against 95 deg. in January, 1905; and the minimum temperature was 24 deg., on the 8th

August, against 22 deg. in the corresponding month of the previous year.

These particulars of the rainfall and temperature express very inadequately the general weather conditions, and it may be as well to further mention that the dry windy weather which is usually prevalent here during the spring was not experienced during the corresponding period of this year. This fact goes a long way in accounting for the good growth made by the trees, as the spring months are perhaps the busiest and most important ones of the year. The lining-out and transplanting of trees is then in full swing, and their subsequent growth depends very much upon the state of the atmosphere at that period; a moist, warm atmosphere, of course, being most conducive to good growth and a low death-rate.

During last spring trees to the number of 1,483,500 were lined out, at an average cost of 1s. 9d. per thousand. This cost is low compared with the previous year, when lining out cost 2s. 6d. per thousand; but can be accounted for from the fact that the majority of the trees dealt

with were larch, and were easily handled.

Seed-sowing commenced on the 12th October, and owing to favourable weather was completed

early in November, about a month earlier than last year, and at a much less cost.

The crop of one-year-old seedlings is, perhaps, the finest that has been raised here during the last five years. All the principal species germinated well, the larch and Corsican pine being particularly fine, both as regards percentage of germination as well as growth. About one-half of the larch-crop are from 4 in. to 6 in. in height, and it will be necessary to transfer them to the nursery-rows next spring. It is worthy of notice that from 560 lb. of larch-seed sown the estimated crop is 2,500,000 trees, while the same quantity of seed sown the previous year resulted in a crop of 1,500,000, or 1,000,000, less than this year. The good crop this year is due largely to the excellent quality of the seed obtained, and in a measure to the favourable weather. Whilst mentioning this fact, it is especially urged that a sufficient sum should be placed on the estimates to provide for such a contingency. Where the result of a crop is merely conjectural, it is evident that the cost of handling the crop when it reaches the critical stage is also a matter of conjecture; and, in respect to this year's crop of larch, it is estimated that it will cost during the next year £200 more to handle than did that of the previous year. crop of Sequoia sempervirens (redwood) is again poor, but it is much better than has been obtained during the last three years. Juglan's nigra also germinated sparsely, but the plants have made very good growth.

The two-year-old trees in seed-beds have done well

Lined-out trees are all strong and sturdy, and mostly fit for transferring to the plantations

during the coming winter.

It is now evident that a further area of about 20 acres of land will need to be secured for nursery purposes. The present enclosure has, with the exception of about an acre, all been graded and broken up, and yet it is not large enough to accommodate the trees which are being grown, unless a system of manuring is carried on and the same land cropped year after year. Such a procedure would be most inadvisable in this light pumiceous soil, and would only get over the difficulty for a few years. Since the increase in the crops at this nursery was authorised, three years ago, until now no fair test has been afforded as to the area of land required, owing to the fact that may of the two-year-old trees were sent to the plantations direct-not lined out-and also that of the prescribed number about one-third were Eucalypti, which, owing to their rapid growth, were planted permanently twelve months after the time of sowing the crop. The number of trees in the nursery has steadily increased from 5,535,355 in 1904 to 6,563,625 in 1905 and 7,781,400 in 1906, and from now on it will remain much the same as at present. The seedbed ground, with the exception of a few small areas, is at present all occupied, and it will be necessary to select a further area for this purpose before next spring, thus reducing the ground that has been used up till now for lining-out purposes.

It will also be necessary to provide another grass-paddock for the horses, as the present enclosures are quite inadequate since a second team was purchased, and it has been necessary to In this hot climate horses soon get out of sorts if fed feed with hay during the past summer.

continually on hard feed, and the cost of a grass-paddock would soon be amply repaid.

Buildings: A four-roomed cottage was erected last winter for the Nurseryman in Charge. The building was erected in a substantial manner, and is replete with every convenience. although the rooms are somewhat on the small side. The men's quarters were also extended, two rooms being added to meet the requirements of the increased staff. It was also necessary to extend the stable in order to accommodate the three new horses purchased for the Whakarewarewa Plantation. The alterations comprise four stalls, an extension to the loft, and harness and feed

A much-wanted convenience was provided in the shape of a bridge across the Puarenga River. Formerly all the traffic to and from the nursery was either by way of the native village (which is a very unsafe road for horse traffic) or by a more circuitous route, by way of the Tikitere and Wairoa Roads. For safety, the waggon when going to Waiotapu took the latter route, which added about three-quarters of an hour to the journey, and during the short winter days the Waiotapu Plantation was reached just at dark, provided the roads were good and no accident happened. In the event of a delay from any cause whatever, the latter and most dangerous part of the road had to be traversed after dark, and great credit is due to the driver for the careful manner in which he carried out his duties—no accident of any consequence having occurred. The Rotorua Nursery and Whakarewarewa and Waiotapu Plantations were each equally convenienced by the new bridge, and the cost of the erection was divided between the three works.

Trees to the number of 2,386,931, valued at £6,281 13s. 8d., were sent to the plantations, &c.. during the year, and since the initiation of the nursery 9,705,571 trees, valued at £21,509 11s. 5d.,

have been sent out.

The cost of mossing trees averaged 10s. 1d. per thousand, and the number thus dealt with

amounted to 704,393—mostly Eucalypti.

Seedling trees—number, 2,750,800—were lifted, sized, &c., at an average cost of 2s. per thousand. This work was carried on in the sizing-shed, mostly during wet weather.

The average number employed daily during the year was twenty-seven. Schedules of trees and statements of expenditure and values are appended. The following is a record of the rainfall and temperature for the year:

Month.			Rainfall.	Number of Days Rain fell.	Hignest Reading of Ther- mometer.	Date.	Lowess Reading of Ther- mometer.	Date.
1905.			Inches.		Degrees.		Degrees.	
			2.95	9	83	$7 \mathrm{th}$	30	23rd, 24th
			4.70	14	71	$3\mathrm{rd}$	29	5th, 6th, 7th
			5.15	18	62	27th	26	$7 \mathrm{th}$
			7.29	13	60	2nd.15th.	26	3rd, 11th, 19th,
						24th		20th
			4.56	13	67	31st	24	8th
			4.46	22	69		14	6th
			7.80	21	89	$19 \mathrm{th}$		5th, 15th
								10th
					1			25th
	, , , ,					, , , , , ,		20111
			2.37	6	91	27th	40	24th
			ŀ					21st
) -	8				28th
					l			2011
als			49.67	169				
	1905. 	1905	1905	1905. Inches. 2·95	Month. Rainfall. of Days Rain fell. 1905. Inches. 2.95 9 4.70 14 5.15 18 7.29 13 4.56 13 4.46 22 3.25 15 2.48 15 1906. 2.37 6 2.51 15 2.15 8	Menth. Rainfall. Reading of Thermometer. 1905. Inches. 2.95 9 83 4.70 14 71 5.15 18 62 7.29 13 60 4.46 22 69 7.80 21 89 2.48 15 94 1906. 2.37 6 91 2.51 8 88	Menth. Rainfall. Number. Reading of Thermometer. Date. 1905. Inches. 2.95 9 83 7th 4.70 14 71 3rd 5.15 18 62 27th 7.29 13 60 2nd,15th, 24th 24th 24th 24th 4.46 22 69 15th 7.80 21 89 19th 2.48 15 94 4th, 9th 1906. 2.37 6 91 27th 2.51 15 82 2nd 2.15 8 88 14th	Menth. Rainfall. Number Reading of Thermometer. Reading of Thermometer. Date. Reading of Thermometer. 1905. Inches. 9 83 7th 30 4.70 14 71 3rd 29 5.15 18 62 27th 26 7.29 13 60 2nd,15th, 26 26 4.56 13 67 31st 24 24 4.46 22 69 15th 31 31 7.80 21 89 19th 32 32 2.48 15 94 4th, 9th 36 36 1906. 2.37 6 91 27th 40 32 2.51 8 88 14th 32

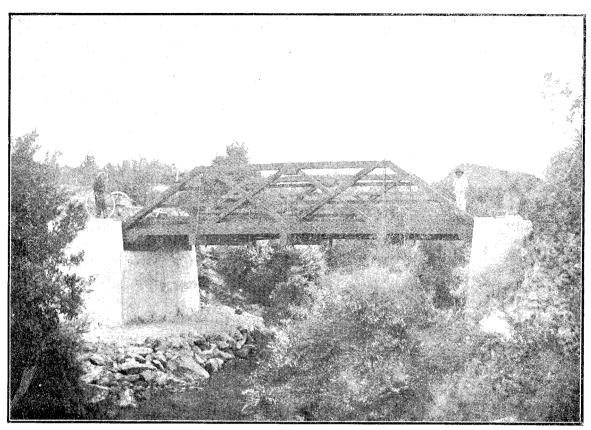
H. A. GOUDIE, Nurseryman in Charge.

WHAKAREWAREWA PLANTATION.

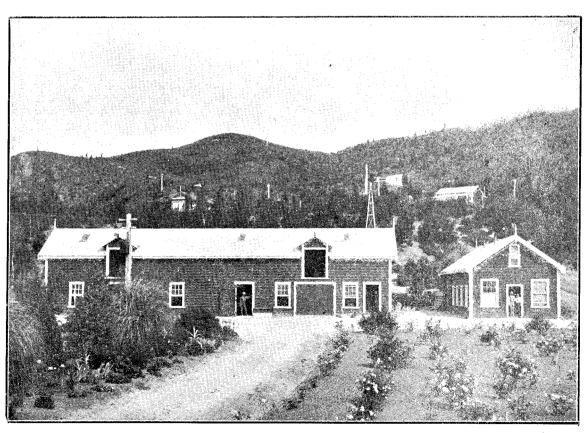
(Area, 8,912 acres, approximate; altitude, 1,000 ft., approximate.)

Owing to the excellent weather conditions which prevailed during the greater part of the year, the trees on the whole have done well. During the year trees to the number of 1,195,904 were dealt with. Of this number 967,983 were planted on a new area of $435\frac{3}{4}$ acres, 222,417 were used to replace deaths in former plantings, and 5,504 were planted for ornamental and shelter purposes adjacent to the camp-site. This reserve now contains 2,408,186 trees, which occupy an area of 1,401½ acres. Much of the work has been done by prison labour, but it was also necessary to largely employ free labour in order to get all the available trees planted. Portions of the plantation are also at too great a distance from the prison-camp to be economically worked by This applies generally to the oldest blocks of the plantation which have been worked entirely by free labour. An average daily number of 14.19 prisoners performed work to the value of £771 8s. 4d., or an average value of £54 7s. 3d. per man. Details of this will be found in the schedules of values appended.

Free labour: An average daily number of nineteen free men were employed, and the cost of the various works undertaken was as follows: Pitting cost 15s. 3d. per thousand; planting cost



NEW BRIDGE TO GIVE IMPROVED ACCESS TO ROTORUA NURSERY.



Outbuildings, Rotorua Nursery.

C = 1B

8s. 11d. per thousand trees; replanting failures (including opening pits) cost 28s. 8d. per thousand, and 85 chains of roads and tracks were formed, at a cost of 5s. per chain; clearing 154 acres cost on the average £1 8s. 2d. per acre. A large portion of the area cleared was covered with a very heavy growth of tutu and fern, and the land was also rough and steep, consequently the cost of this work is considerably greater than the previous year, when it cost on an average 9s. per acre. As a rule, clearing costs on an average about £1 an acre in the district.

A further area of 95 acres, between the Wairoa Road and the old plantation area, was set apart during the year for State-forest purposes. The old boundary fence was consequently removed and re-erected on the new line. This fence was also continued for about 120 chains along the Wairoa Road, and a short length of fencing was also erected between Lakes Tikitapu and Rotokakahi, thus making the north-eastern boundary of the plantation secure from wild horses and

catrle.

Good results have been obtained with the trees planted during the year (for species see Schedule C³), and of these the larch has, as usual, made good headway, with a very small proportion of deaths. On the Whakarewarewa Plantation Extension—known as the Waipa Valley—this species was nipped with a late frost on Christmas Day, but the damage was not serious, being confined to the young tender leaves. Abies Douglasii transplanted well, but made very little subsequent growth. Pinus Torreyana and Pinus contorta were planted out experimentally, but the results are not encouraging, due to a very dry spell of weather shortly after they were planted. Acacia melanoxylon is undoubtedly a wonderfully quick grower. Many of those planted last spring have made from 2 ft. to 4 ft. of growth. It stands the frost and drought well, and is evidently suited for holding its own amongst the thick undergrowth of fern and tutu which is so common here. It is a valuable Tasmanian timber, commercially known as "blackwood," and, from the results obtained from it, here it is recommended that in future it should be planted more extensively.

In the Eucalypti compartment, E. amygdalina, E. Stuartiana, and E. pauciflora have done well, while E. obliqua, E. Sieberiana, E. hæmastoma, and E. gigantea were badly frosted, the

latter being killed outright.

Catalpa speciosa: Owing to unseasonable frosts, this tree has not done so well as was expected. As soon as the young growth appeared in the spring this was cut off by the frost, and the trees are in consequence nearly all dead, and those that are alive have a stunted appearance. No further plantings will in future be made with this tree here.

During last winter a large wagon and three strong mares were purchased for carting trees

from the Rotorua Nursery.

Maintenance-work: A sum of £408 8d. was spent on clearing the undergrowth from around the young trees. This work is increasing annually, although portions of the plantation have needed no attention in this respect for the past two years. These portions, however, all need to be pruned in order to suppress the double leaders, and this work will be proceeded with shortly.

For the coming planting season preparations are well in hand for planting about 1,000,000

trees, now available in Rotorua Nursery.

Statements of expenditure and values are appended.

W. G. Morrison, Assistant Forester. H. A. Goudie, Nurseryman in Charge.

WAIOTAPU PLANTATION.

(Approximate area, 3,200 acres; altitude, approximate, 1,200 ft.)

The rainfall for the year ending the 31st March, 1906, amounted to 46.63 in., falling on 185 days, the heaviest monthly fall being registered in October, when 7.82 in. was recorded on 21 days. The lowest shade temperature registered was 16 deg. Fahr., or 16 deg. of frost, on four occasions during July and August; and the highest temperature was 86 deg. Fahr. on the 14th January.

The results of prison labour for the year are highly satisfactory. An average daily number of 42.56 prisoners performed work to the value of £2,440 8s. 5d., this showing an average value per man for the year of £57 6s. 9d. The entire work has been performed by prisoners, supervised by

warders and two Foresters.

Trees planted during the year number 1,165,253. Of this number 287,240 were planted to replace deaths in former plantings, 1,488 were planted experimentally, and the remainder (876,525) were planted on a new area of 322 acres. This plantation now contains 2,814,179 trees, which occupy an area of 1,215½ acres.

The trees on the whole have done well, with the exception of a number of varieties of Eucalypti, of which only the species *Gunnii* (Hooker) seems to be a decided success. *Acacia melanoxylon*, of which forty trees were planted experimentally, have done exceptionally well, and

is thoroughly suited to the soil and climate here.

Robinia pseudo-acacia, although quite hardy, have made very little progress, owing to hares nibbling off the young shoots as they grow. All the species of conifers planted, details of which will be found by referring to Schedule C³, have done well, and the death-rate amongst these does not amount to more than 5 per cent.

Pruning has been necessary amongst some of the older trees, and was commenced last February with six prisoners. This work requires a great deal of care and discretion, and it is pleasing to note that these men, although only supervised by the Forester in Charge occasionally, have carried out this work in a most satisfactory manner.

Roads and tracks were formed through the land cleared during the year. The total length formed was 115½ chains, 14 ft. wide, but in all cases a strip of land 1 chain in width was reserved

as a firebreak. This land, and also the half-chain reserved around the fence-line, was ploughed and it is intended to keep it cultivated in order to prevent the spread of fire. As there is now a considerable area of land reserved for roads and firebreaks, it will be necessary to procure a horsehoe for the purpose of keeping down the growth of weeds, &c., before next summer. Another horse will also be required for this work, and for assisting to distribute the trees to various parts of the plantation.

It is estimated that in two more years the present enclosure will all be planted, and, as the eastern portion of the block is a considerable distance from the camp, a good deal of time will be lost by the prisoners walking to and from their work. This, perhaps, would not be a great consideration during the summer months; but in the winter, when a great deal of work has to be done, the prisoners only work seven hours per day, and one hour and a half each day at least would be lost in walking to and from the work. In view of the foregoing facts, it would be desirable to select a further area for planting purposes before next spring, and have this fenced, so that the prison-camp could be shifted, and the furthest-off and most inaccessible parts of the present enclosure planted from the new base.

Details of expenditure and values are appended.

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The following is a record of rainfall and temperature for the year:-

Month.		Rainfall.	Number of Days Rain fell.	Maximum Tempera- ture.		Minimum Tempera- ture.	Date.
1905.				D			4 1 July
		Inches.	· ·	Degrees.	100 01	Degrees.	711 011 1011
March	•••	0.46	6	82	10th, 21st	32	7th, 8th, 18th
April		$2 \cdot 34$	10	72	$6 \mathrm{th}$	22	22nd, 23rd
May		3.93	15	64	2nd	22	3rd
June		5.56	18	56	13th	18	6th, 10th
July		6.49	17	56	1st, 22nd	16	18th
August		4.43	14	58	18th, 30th	16	$7 ext{th}$
September		4.19	$\overline{25}$		9th, 14th, 15th		5th, 6th
October		7.82	$\frac{1}{21}$	70	18th	$\frac{24}{24}$	14th
NT la		3.93	$\overline{19}$	80	14th	26	15th
December	•••	2.85	16	84	12th	$\frac{20}{24}$	24 h
1906.	•••	2.00	10	04	12611	24	24011
Tannarr	. •	$2\cdot20$	10	86	14th	26	31st
			1				
February	•••	2.43	14	80	1st	22	$20\mathrm{th}$
Totals	•••	46.63	185				1. 1. 5

T. B. Curle, Assistant Forester. H. A. Goudie, Nurseryman in Charge.

KAINGAROA PLAINS PLANTATIONS (FOUR).

(Altitude, 2,000 ft; total area, 25 acres.)

Four years ago these experimental areas were planted with various trees in order to ascertain which species could be grown on these elevated wind-swept plains. Around each area a belt of Pinus radiata was planted for shelter, and these have made a remarkable growth, considering the exposure to which they were subjected, the majority of them having reached in four years a height of from 10 ft. to 14 ft. Larch, Corsican pine, Austrian pine, and English birch have all made good sturdy growth—not the rapid growth noticeable with these species in the Waiotapu Valley, but moderately quick, with hard, well-ripened wood. Other trees planted were Norway spruce, Menzie's spruce, Oregon pine, and Lawson's cypress. The first three species are, on the whole, in very good condition, but it is evident that without the shelter afforded by the *Pinus radiata* these would not have grown so well. Of the three, perhaps the Menzies' spruce is the most successful. The Norway spruce and Oregon pine have made remarkable growth where sheltered, but in the centre of way spruce and Oregon pine have made remarkable growth where sheltered, but in the centre of the areas, where they are more exposed to the wind and the early morning sun, many of them are stunted and frosted. Lawson's cypress, so far as can be judged at present, is a decided failure, and seems to be scarcely any larger now than when it was planted. It has also suffered from the depredations of hares, which have nibbled off the young growth as it appeared. Judging from these experiments, it is safe to say that larch, Corsican pine, Austrian pine, and birch can be grown here as successfully as in any part of the Hot Lakes District, and these species of trees should be the principal ones used when the Waiotapu Valley is all planted and operations are properly commenced on the plains. The Norway spruce, Oregon pine, and Menzies' spruce, no doubt, could be successfully grown in selected situations, but would not do for general planting. No work has been done here during the past year but it is intended shortly to send a gang of prisoners from Waiodone here during the past year, but it is intended shortly to send a gang of prisoners from Waiotapu Plantations to prune the trees and clear away the undergrowth.

- T. B. Curle, Assistant Forester. H. A. Goudie, Nurseryman in Charge.

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RUATANGATA NURSERY, KAMO, NEAR WHANGAREI. (Area, 65 acres, approximate; altitude, 320ft.)

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Forest trees to the number of 652,200, valued at £1,217 3s., now comprise the stock in this nursery. A most favourable season generally prevailed, maintaining a steady growth in all classes of plants. Totara seedlings collected within a radius of eight miles from the nursery were sized or plants. Totara seedings collected within a radius of eight miles from the hursery were sized and lined in under covered frames. Small lots of Podocarpus dacrydioides (white-pine), Phyllocladus trichamanoides (tanekaha), Podocarpus ferruginea (miro), Alectryon excelsum (titoki), Knightia excelsa (rewarewa)—in all, approximately, 100,000 trees—were dealt with at an average cost of 4s. per thousand for collecting and "lining in," and, as in previous years, these have made satisfactory progress. It is essential for success that trees so treated be well shaded for at least three months. They require to be lifted and classes and the majority grown in the nursery for another year, by which time they make splendid roots, and are well fitted to bear transplanting when the time arrives for transferring them to the plantations.

This plan affords some provision against the failure of subsequent seed-crops, and it is also gratifying to find a use at a payable rate for plants, which must inevitably die if left under the

During June 50,000 totara, averaging 3 in. in height, were lined out (at the rate of 4s. 8d. per thousand) on volcanic-ironstone land, previously cropped with oats, limed, and well cultivated. Beyond a check from a number of late frosts and the more serious attacks of wireworm, this lot of trees made rapid growth, now averaging 12 in. in height.

An autumn sowing of totara-seed contended against very adverse conditions throughout the winter, with poor results. This is a familiar experience, showing that whilst sometimes much is to

be gained, on the other hand considerable risk attends autumn-sowing of tree-seeds here.

In the first week in September, after treatment in pits, the main crop of totara-seed was sown, resulting in a fine sturdy lot of trees, to the number of 250,000, 6 in. high.

Seven pounds of Sequoia sempervirens (redwood), sown at the same time, yielded a thin crop of healthy seedlings, all of which are sufficiently large for permanent removal. It is a most difficult matter to secure fresh, sound seed of this valuable timber-tree, and is a matter of regret, as it is well suited to the district.

About 300 lb. of puriri-seed (Vitex lucens) was sown in October, after being pitted, 60,000 seedlings being raised, now averaging 9 in. in height, and valued at £1 5s. per thousand. Puriri-trees require another season under nursery treatment in order to build up strength and form a good fibrous-root system, when they transplant well. They bear the hot dry weather splendidly, but succumb to frost in a disappointing manner. This is especially the case when the plants are young and growing in a rich soil, many failures being due to this cause.

Other small sowings of Pittosporum crassifolium (karo), Fraxinus Americana (white American ash), Sequoia gigantea (mammoth tree), Pseudo-tsuga taxifolia (Oregon pine), and a few Japanese

trees have also given satisfactory results.

The main crop of Eucalypti was sown in December, comprising E. rostrata, E. marginata, E. leucoxylon, E. paniculata, E. siderophloia, E. resinifera, and E. obliqua. All these varieties germinated well.

The total number of trees raised on this station since May, 1903, is 934,484, valued at £2,091 13s. 4d. Trees to the number of 158,660, valued at £408 15s. 2d., were transferred to Puhipuhi Plantation during the year, and the number of trees sent out from the nursery since the inception in May, 1903, is 282,284, valued at £874 10s. 4d.

Experimental work, devoted to testing various trees with regard to their general merits, is of great interest. Many years must necessarily elapse before more than a superficial knowledge can be obtained. Even at the present stage, however, such information as has already been acquired

is of considerable value.

Under the conditions existing in the present plantations the various Eucalypti planted here two and a half years ago now average 5 ft. in height. Those varieties under observation appearing to be more suited for extensive planting in this district are: E. amygdalina, E. regnans, E. rostrata, E. resinifera, E. Stuartiana, E. teretecornis, E. obliqua, E. maculata, E. marginata, and others. Those yet of undetermined merit are E. gigantea, E. crebra, E. siderophloia, and E. eugenoides, these being slow in growth and lacking in vigour. E. redunca, E. virgata, E. teretecornis, and others are severely attacked by the cicadas (locust). E. salegna, E. pauciflora, and E. capitellata appear to outgrow their strength. E. corynocalyx, E. maculata, E. marginata, E. corymbosa are affected by frost in a young state, the first two being especially delicate to handle in mossing.

Various American oaks are making excellent growth. About 500 Quercus suber are now quite established. Well-branched specimens are 3 ft. in height on poor situations. In a few years an ample supply of seed-acorns can be assured. A consignment of cork-acorns, imported direct from Italy, opened in a most unsatisfactory condition, being practically worthless. Repeated experi-

ments of this kind have invariably proved disappointing, so that when a reliable seed-supply can be reckoned on the great difficulty will be met regarding the raising of cork-trees.

Sequoia sempervirens (Californian redwood) continue to grow excellently. Situated on a stony slope, individual trees are 4 ft. in height and sturdy in proportion, having made 18 in. of new growth this season.

Poor results so far have attended the Catalpa speciosa. The trees suffered from uncongenial surroundings and the attacks of numerous insects.

Native trees are thriving, although some grow very slowly, the average height of three-year-old totaras being 2 ft. 6 in. Taken as a whole, all the trees are in a thriving condition.

Considerable labour has been expended on general formation-work during the year, necessary in order to bring the land under workable conditions, by breaking up new land, removing stony

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outcrops, forming stone draining with the material, levelling and filling in depressions, and

improving roads.

Fourteen acres of land were well worked last winter-1 ton of lime applied per acre-and 12 acres sown with Algerian oats and rye-corn, resulting in a return of about 40 tons of chaffingsheaves, saved in good order. The balance of the land was utilised in growing Italian rve-grass, maize, and carrots, each of which yielded heavy crops.

A strong rick, 26 ft. by 20 ft. by 18 ft., with a lifting roof on pulleys, was erected in sections, to

permit removal, the whole work costing in labour and material about £25.

One hundred light seed-frames, 18 ft. by 6 ft., were constructed, costing in labour and material about 11s. each.

General maintenance-work has formed a heavy item in the year's work. The clearing of creeks of watercress and the suppression of gorse and other weeds was a continuous labour.

Arrangements are well forward to provide a substantial nursery-building, which will be pro-

bably erected before the winter months.

During the year rain fell on 157 days, with a total fall of 52.61 in., the heaviest monthly fall being 7.41 in October. The maximum temperature registered was 89 deg. Fahr., on the 11th December, and the lowest, 26 deg., on the 11th August.

Heavy thunder-storms occurred in the spring, followed by cold winds and changeable weather. With this exception, the year has been remarkable for well-distributed rain and the equable

changes in the seasons.

I have to thank the staff for the assistance I have received from them in carrying out the year's work.

The number of hands employed during the year was five men and six lads. Details of expenditures and values and schedules of trees are appended. The following is a record of the rainfall and temperature for the year:-

Month.		Rainfall.	Number of Days Rain fell.	Maximum Tempera- ture.	Date.	Minimum Tempera- ture.	Date.
1905.		Inches.		Degrees.		Degrees.	
April		2.17	9	81	$3\mathrm{rd}$	31	$10 \mathrm{th}$
May		4.77	14	70	$29 ext{th}$	32	7th, 19th
June		$\hat{4}.05$	20	66	$9\mathrm{th}$	-33	6th, 19th
July		3.25	15	75	$15 \mathrm{th}$	31	$20 \mathrm{th}$
A sa coura cata		$7.\overline{13}$	13	67	31 st	26	$11 \mathrm{th}$
September		4.56	$\frac{1}{21}$	69	$10 \mathrm{th}$	33	$24 \mathrm{th}$
October		7.41	19	80	25th	32	$14 \mathrm{th}$
November		3.57	14	85	$30 \mathrm{th}$	34	$12 \mathrm{th}$
Desember	:::	2.55	6	89	$11 \mathrm{th}$	38	3rd
1906.		200					
T		3 ·78	7	85	$25 ext{th}$	38	2nd
[7] -]	•••	4.81	8	83	2nd	38	$27 \mathrm{th}$
Manah	***	4 56	11	81	15th	34	2nd
March		- 100					
Totals		52.61	157				

L. J. Adams, Nurseryman in Charge.

PUHIPUHI PLANTATION, WHAKAPARA. (Area, 1,121 acres; altitude, 1,000 ft.)

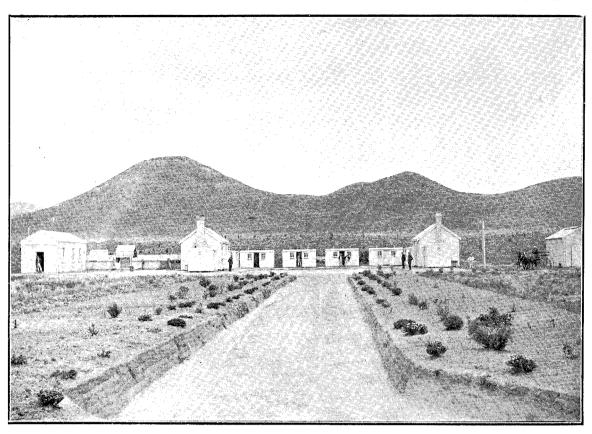
Great changes are evident at this station by the country being cleared of the useless timber over at least 400 acres of the reserve and on the adjoining block of 250 acres. Clearing and burning other growth has work was let by contract at the rate of 4s. 6d. per acre. Approximately, 122,000 totara and 135,000 Eucalypti of tested merit are now cost 3s. per acre. planted at 8 ft. apart. Upwards of 12,000 acorns were planted in situ last season, on the steep spurs facing the north, at the cost of 16s. per thousand. This fills in all the land that it is desirable to plant on this block, most of the balance being covered with native bush.

A large number of trees died owing to the dry season of 1904-5, and these were replaced at a cost of £2 per thousand. On steep hillsides the heavy rains wash the loose soil from the roots of the trees, leaving them exposed to a hot sun, and the fact that totara is more susceptible to

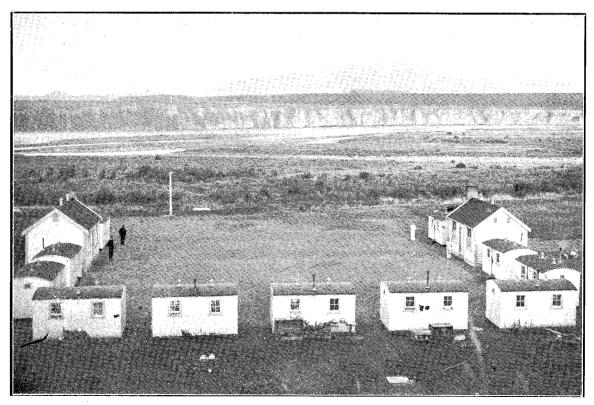
drought than exotic trees generally grown accounts for this loss.

Last planting-season 181,847 pits were dug, at an average cost of 16s. 6d. per thousand.

Trees to the number of 137,860 were planted, at an average cost 15s. per thousand, including the distribution of the trees to the planters. On steep rough country where kauri logs are strewn in all directions this work is one of considerable expense. It has been found most expedient to pack the mossed trees in cylinder-shaped crates, these being 2ft. 6 in. long, made of three iron hoops, 1 in. by 1 in. iron, 14 in. in diameter, pierced with six holes, on which 2 in. by 1 in. battens are bolted. The ends of the crates are laced with wire, and the inside lined with sacking-material, leaving a space open to put in the trees. A well-packed crate will hold about 1,000 trees, and remain three or four days without fear of heating. Two crates placed on a pack-saddle form a convenient lead for an average have and convenient lead for an average have a convenient lead for a convenient lead for a convenient lead for an average have a convenient lead for a convenient lead f convenient load for an average horse, and can thus be conveyed about the plantation.



PRISON CAMP, WAIPA, NEAR ROTORUA.



PRISON CAMP, DUNGREE, NEAR BLENHEIM

A small temporary nursery was formed as a depot for "heeling in" trees, so that the work

can proceed without interruption whilst roads are unfit for carting.

In regard to the condition of the trees, totara seem fairly well established, but so far their growth is somewhat slow, except in the most favoured places. At the same time, it may be said that many of the trees were planted as first-year seedlings, and they have survived rather trying conditions. Experience shows that it is necessary to line out the trees one year in the nursery before transferring them to the plantation.

The cost of maintaining the trees is from 10s. to 14s. per thousand, as the fern grows very fast

all the year round.

The various Eucalypti have grown well, with the exception of *E. corymbosa* and *E. corymo-calyx*, which are repeatedly cut down by frost. *E. crebra* and *E. siderophlia* do not succeed particularly well. The growth of the remaining species named is very satisfactory, and they now average 2 ft. in height, while specimens of *E. rostrata* and *E. redunca* have attained a height of 9 ft. in two years. *E. resinifera* (the red mahogany) excels all others, although subjected to similar conditions, being firm, sturdy, and very hardy in its growth; it bears all the treatment of wrenching, mossing, and transplanting well, and appears quite at home in the Puhipuhi soil and climate. It is also known as the "Botany Bay gum." The timber is very durable, and is used extensively in ship-building and wood-paving.

There still remains a quantity of useful kauri timber lying about the reserve which might be profitably utilised. This timber is fast becoming scarce, and is consequently of more value, and it is believed that at the present rate at which it is sold it would pay to convert these previously

discarded logs by means of a portable sawmill.

Owing to the low-lying land along the Kaimamaku River being periodically flooded, it has not been planted, and as a matter of precaution the plantation-fence was erected well above the high-water mark. The area thus excluded is considerable, and is overrun at present by the settlers' stock. It is therefore desirable that this be leased for grazing, as the fences are liable to be damaged by cattle, and under a lease tenure the lessee would be required to subscribe towards the upkeep of the fences.

As no record of rainfall and temperature was taken until September last, this information is of

little value this season.

Forward preparations are now in progress to receive this season's output of trees from Ruatangata Nursery on a recently resumed area of 250 acres.

Average number of men employed daily during the year, nine.

Details of values and expenditure are appended.

CHAS. HOOPER, Assistant Forester. L. J. Adams, Nurseryman in Charge.

STATEMENT OF EXPENDITURE TO THE 31ST MARCH, 1906.

						10	00.		
		Ewebur	rn Nurse	ry.			£	s.	d.
Amount at the	31st March								
Tree-growing	•			•••	•••	• • •	7,030		11
General mainter		•	••	• • •	•••	• • •	312	9	3
Nursery-formati			••	• • •	•••	• • •	197	7	8
Horse-shoeing a	nd general w		••	• • •	•••	• • • •	34	16	6
Horse-feed	ma general re	spans .	••	•••	• • •	• • •	85	16	2
Tree-seeds	•••		• •	•••	•••	• • •	24	4	3
		••	••	• • •	•••	• • •		16	0
Tools, implemen			••	• • •	• • •		2	4	3
Fuel and freight	,		••	• • •			8	1	8
Buildings—stabl	e and sizing.	-shed (nev	₩)	• • •	***		173	4	1
Supervision		••	•• ,	• • •			18	5	0
						_			
						£	37,925	18	9
		er:				=	<u></u>		=
			ui Nurse	ry.			£	s.	d.
Amount at the 3	1st March, 1	.905					10,350	15	10
Tree-growing						••••	681	4	5
General mainten	nance				•••	• • •	351	1	6
Horse-shoeing an			•	••	•••	• • •	$\frac{331}{27}$	_	-
Horse-feed purch	ased and gr	ypunis		••	• • • •	• • •		6	5
Manures	•			••	• • •	• • •			$\frac{11}{2}$
Tree-seed	•••			• •	• • •	• • •	7	6	8
Tools, implement	··· ··		•	••	•••	• • •		10	2
Duildings similar	υβ		•	••	• • •	• • •	51	9	9
Buildings—sizing	g-snea ana pa	art Nurse	ryman's	cottage	• • •	• • •	186	12	0
Miscellaneous wo	orks	•	•		• • •	• • •	1	2	8
Supervision	•••			• •			38	11	0
									
	•					£1:	1,867	13	4
						_			_

		Starbor	ough Nu	rsery.			£	8.	d.
Amount at the 31s	t March,						5,160	17	4
Tree-growing		• • •			•••		509	3	2
Maintenance	• • •				•••	• • • •	201	8	9
Nursery-formation			•••	•••	• • •	•••	81	8	5
Buildings	•••	•••	•••	•••	• • •	•••	181	5	9
Fencing	•••	•••	•••	•••	•••	•••	26	16	3
Water-supply	onta	• • •	• • • •	•••	•••	•••	60	16 13	7 5
Tools and implem Horse-feed					•••		80	18	4
Tree-seeds	•••				•••		72	2	9
Horse-shoeing and		-	•••	•••		•••	52	5	10
Manures				•••			11	9	3
Miscellaneous wor	ks	• • •			•••		40	10	6
Supervision	•••		•••		•••		38	2	6
							06 500		10
						;	£6,523	0	10
		Hanmer	Springs	Nursery	y.		£	g.	d.
Amount at the 31s	st March.				•••		1,042	14	0
Tree-growing				•••			275	3	1
Nursery-formation		•••	•••	•••				18	9
Horse-shoeing and		repairs		•••	•••		3	10	6
Horse-feed	•••	• • •	•••		• • •	••,•	36	4	9
Manures	•••	•••	•••	•••	•••	• • •	50	2	5
Tree-seeds		•••	***	•••	• • •	•••	50 12	15 19	$\frac{2}{5}$
Tools and implement Seed-frames		•••	•••	•••	• • • •	•••	15	17	9
Water-supply	•••	•••	•••		•••	•••	4	3	$\overset{\circ}{2}$
Miscellaneous								15	ō
Supervision		•••					28	4	0
•									
							£1,528	-8	0
		Roto	rua Nurs	eru.		•	£	s.	d.
Amount of the 21	+ March			·			13,935		10
Amount at the 31s Tree-growing		1000	•••		•••		1,782		10
Nursery-formation				•••			368	ő	1
Horse-feed		•••	•••	• • •	•••		110		6
Horse-shoeing and		repairs					216	9	1
Manures	•••		• • •		• • • •		77	8	2
Tools and impleme	ents	•••	•••	•••	• • •	•••	25	5	0
Tree-seeds		•••	•••	• • •	•••	•••	189	8	5
Water-supply, ext			•••	• • •	• • •	•••	5 17	16 9	3 0
Fencing Buildings — Nurse	 rvman's	 cottage	 addition	ns to	stable,	men's	т,	9	0.
quarters and							662	10	6
Erection of bridge				•••	•••		154	3	0
Clerical work	•••						147		9
Miscellaneous wor	ks			•••			22	0	9
Supervision	•••		•••	• • •	• • • •		47	10	0
						<u>-</u>	17,763	7	
							£1,100		<u>-</u> -
		Ruatange	ata Nurs	ery.			£	s.	đ.
Amount at the 31s		-				•••	1,586	8	11
Nursery-formation		•••	•••				210	1	5
Tree-seeds purcha	sed and $\operatorname{\mathbf{c}}$				• • •		47	19	2
Tree-growing			***	• • •			372	0	5
Experimental wor		• • •	• • •		• • •		19	. 5	11
General maintena			•••	•••	• • •	•••	262	19	7
Tools—purchase a		li .	•••	•••	•••	•••	27	3 8	2
Miscellaneous wor Horse-shoeing and		··· renaire	•••	•••	• • •	• • • •	$\frac{12}{4}$	5	$\frac{7}{9}$
Horse-feed purcha		· ^ ham s	•••		•••		10	1	0
Crops—labour and	l material		•••				128	12	2
Manures			•••	• • •		•••	28	2	ō
Seed-frames							64	9	2
Buildings	•••	•••			• • •	• • •	91	0	7
Supervision	•••	•••	•••	• • •	•••	•••	26	5	0
							£2,891	າ	10
•						,	~~, UUL		

Amount at the 31s Tree-planting Carting trees General maintenant Proportion of Nurs Supervision	st March, nce	1905 	Paddock	Plantata	on. 	•••	1,669 16 2 47 15 4 £1,756	s. 17 7 12 18 13 10	d. 2 9 6 2 4 0
Amount at the 31s Tree-planting Pitting			Reserve				£ 687 115 16	s. 4 0 17	d 1 2
Heeling in trees Carting trees Erection of men's Carting, sowing, a General maintenar Proportion of Nurs	nd supply nce				•••		5 16 57 26 17 41	16 4 3 17 13	0 9 0 3 0
Supervision					•••		£997	8	0 3

A portion of this reserve was leased for cropping, and rental amounting to £69 19s. 6d. was received during the year. The rental thus received to date amounts to £402 7s. 6d.

	Ducku	Hill	Plantation.			£		a
Amount at the 31st March						$\frac{1}{7,529}$	s. 18	d. 4
Digging 77,468 pits for tree		~ · · ·	•••	•••		76	7	6
	~	g	•••	• • •	•••	64	i	6
Planting 70,075 trees	 ting 91 0	50 00		•••	•••	16	0	4
Preparing ground and plan		oo ac		• • •	•••	2	0	0
Tree-seed—acorns, and rai			•••	•••	•••	3	7	6
Cartage of trees from Tapa			•••	• • • •	•••	230	ó	2
General maintenance	• • •	• • • •	• • •	•••	• • •			0
Tools, implements	•••	• • •	•••	• • •	•••	15	15	_
Cutting and burning scrub	•••	• • • •	•••	• • •	• • • •	29	12	6
Forming track	• • •	• • •	•••	• • •	•••	3	11	6
Miscellaneous works			•••		• • •	. 8	$\frac{17}{2}$	0
Nurseryman's salary (prop	ortion)		•••	• • •	• • •	15	0	0
Supervision	• • •	• • •	•••	• • •		22	13	0
						2 017		
					£0	3,017	4.	4
	~							_
		Hills	s Plantation.			£	s.	d.
Amount at the 31st March,					8	3,627	13	4
Digging 464,070 pits for tre	e-plantii	ng				619	19	3
Digging 98,689 grubber-pit	s					106	3	9
Planting 623,000 trees						470	0	3
Preparing ground and plan	ting 239,	600 a	corns	• • •		170	19	6
Tree-seeds—acorns, and rai			•••			20	15	9
Cutting and burning scrub						14	5	11
Cartage of trees from Tapar	nui Nurs	ery	***		•••	17	12	6
General maintenance						246	17	9
Road-formation			•••			98	1	2
Tools and implements				• • •		11	15	1
Miscellaneous works						19	17	0
Nurseryman's salary (propo	ortion)		•••			30	0	0
Supervision						46	9	0
1					_			
					£5	5,500	10	3
					=			_
	Waitah	una .	Plantation.			£	s,	đ.
Cambbing and burning garge						_	14	0
Grubbing and burning gorse		• • • •	• • •	•••		$\frac{6}{25}$	7	7
Fencing—labour and part r	ling orm		fra	•••	•••	⊿o 5	8	ó
Miscellaneous works, travel		cuses.		•••	•••	. 3	0	0
Nurserymen's salary (propo	ordon)	•••	•••	•••	•••	·	U	U
•						£39	9	7
						200		

•	***	α·	D1 (45 %					,
	Hanmer	Springs	Plantation	•		£	S.	d.
Amount at the 31st l	March, 1905	• • •				2,124	1	6
Marking pits			• • •			129	13	9
Tree-planting					• • •	. 11	0	0
Draining			,	• • •	• • •	28	11	11
Buildings					• • •	23	18	10
Tools, implements, &	ze				•••	47	19	3
Fencing material			• • •		• • •	49	17	3
General maintenance	э		•••	• • •		. 16	9	0
Miscellaneous			•••			22	19	9
Acorns-purchase ar	nd freight					. 9	0	0
Horse-shoeing and g	eneral repairs					1	15	0
Proportion of Nurser	yman's salary					70	16	0
Supervision					• • •	31	7	0
					4			
						£2,567	. 9	3
						,,		
•								_
	Dum	gree Pla	ntation.			£	s.	d.
Amount at the 31st		gree Pla				£		d.
Amount at the 31st	March, 1905		•••	•••	. •••	£ 4,890	15	d. 2
Digging 268,513 pits	March, 1905			•••		£ 4,890 678	$\begin{array}{c} 15 \\ 7 \end{array}$	d. 2 8
Digging 268,513 pits Planting 214,725 tree	March, 1905 	•••	•••		• •	£ 4,890 678 237	15 7 19	d. 2 8 2
Digging 268,513 pits Planting 214,725 tree Digging trenches and	March, 1905 es d heeling in tre	 ees	•••		• • •	£ 4,890 678 237 10	15 7 19 17	d. 2 8 2
Digging 268,513 pits Planting 214,725 tree Digging trenches and Cartage of trees	March, 1905 es d heeling in tre	•••	•••		•••	4,890 678 237 10 29	15 7 19 17 5	d. 2 8 2 0
Digging 268,513 pits Planting 214,725 tree Digging trenches and Cartage of trees General maintenance	March, 1905 es d heeling in tro	 ees	•••	•••	•••	4,890 678 237 10 29 22	15 7 19 17 5 15	a. 2 8 2 0 0
Digging 268,513 pits Planting 214,725 tree Digging trenches and Cartage of trees General maintenance Tools and implement	March, 1905 es d heeling in tro e ts	 ees 		•••		4,890 678 237 10 29 22 100	15 7 19 17 5 15 6	a. 2 8 2 0 0 3
Digging 268,513 pits Planting 214,725 tree Digging trenches and Cartage of trees General maintenance Tools and implement Supervision of prison	March, 1905 es d heeling in tro es ts labour	 ees 				£ 4,890 678 237 10 29 22 100 85	15 7 19 17 5 15 6 8	d. 2 8 2 0 0 3 6
Digging 268,513 pits Planting 214,725 tree Digging trenches and Cartage of trees General maintenance Tools and implement Supervision of prison Supervision of free la	March, 1905 es d heeling in tro ts labour abour	 ees 			•••	£ 4,890 678 237 10 29 22 100 85 51	15 7 19 17 5 15 6 8	a. 282000366
Digging 268,513 pits Planting 214,725 tree Digging trenches and Cartage of trees General maintenance Tools and implement Supervision of prison Supervision of free la Improvements by lab	March, 1905 es d heeling in tro ts labour abour	ees				£ 4,890 678 237 10 29 22 100 85 51 65	15 7 19 17 5 15 6 8 8	d. 2820003661
Digging 268,513 pits Planting 214,725 tree Digging trenches and Cartage of trees General maintenance Tools and implement Supervision of prison Supervision of free la Improvements by lat Portion of Nurserym	March, 1905 es d heeling in tro ts labour abour	ees				£ 4,890 678 237 10 29 22 100 85 51 65 21	15 7 19 17 5 15 6 8 5 16	d. 2 8 2 0 0 0 3 6 6 1 8
Digging 268,513 pits Planting 214,725 tree Digging trenches and Cartage of trees General maintenance Tools and implement Supervision of prison Supervision of free la Improvements by lab	March, 1905 es d heeling in tro ts labour abour	ees				£ 4,890 678 237 10 29 22 100 85 51 65	15 7 19 17 5 15 6 8 8	d. 2820003661
Digging 268,513 pits Planting 214,725 tree Digging trenches and Cartage of trees General maintenance Tools and implement Supervision of prison Supervision of free la Improvements by lat Portion of Nurserym	March, 1905 es d heeling in tro ts labour abour	ees				£ 4,890 678 237 10 29 22 100 85 51 65 21	15 7 19 17 5 15 6 8 8 5 16 11	d. 2 8 2 0 0 0 3 6 6 1 8

Note.—Revenue amounting to £84 8s., for sale of flax and rental, was received during the year at this station.

		Waiotapu	Plantate	ion.			£	s.	đ.
Amount at the 31s	t March,	1905					2,472	18	11
Carting trees		• • •	• • •				44	5	ō
Horse-feed					•••		71	$\tilde{2}$	8
Fencing		***	• • •	•••			20	18	ō
Tools, implements				• • •		• • •	19	16	8
Buildings—smithy			• • •	• • •			5	9	1
Horse-shoeing and			•••	• • •	•••	• • •	26	8	11
Erection of bridge	—part co	st		•••			133	6	8
Supervision of pris	son laboui	r (Foreste	ers' saları	es)	• • •	•••	294	5	6
Proportion of Nur	seryman's	s salary a	nd travell	ling-exper	ises	• • •	24	13	10
Supervision	•••	• • •	• • •	•••	•••	• • •	44	6	0
							00 150		
							£3,157	11	3
	t	Vhakarew	arowa Pi	lantation		•			_
A			wieww I	annound on it.			£	8.	d.
Amount at the 31s			• • •	• • •	• • •	• • •	5,101	4	9
Clearing land	nting	•••	•••	•••	• • •	• • •	219	11	6
Pitting for tree-pla	_	•••		•••	• • •	•••	725	1	9
Tree-planting	•••	•••		•••	• • •	•••	147	10	8
Fencing Road-making	•••	•••	•••	• • •	•••	•••	68	8	4
Carting trees	• • •	•••	•••	•••	•••	•••	20	15	6
Maintenance of pla	 entetion	•••		•••	•••	•••	44	2	- 0
Horse-feed	wii www.cii	•••	•••	•••		•••	846 88	4	4
Tools, implements	&c	•••		•••	•••	•••	229	0	8
Buildings—alterat				hon	•••	•••	10	8 1	2
Erection of bridge	-nart co	st.			• • • •	•••	89	6	5 11
Supervision of pris					•••	• • •	124	2	0
Proportion of Nurs				•••	•••	• • •	102	. 3	7
Miscellaneous		s sarar y			***	•••	102	14	4
Supervision	•••				•••	•••	38	4	0
~ P					***	•••	. 50		
						;	£7,856	19	11

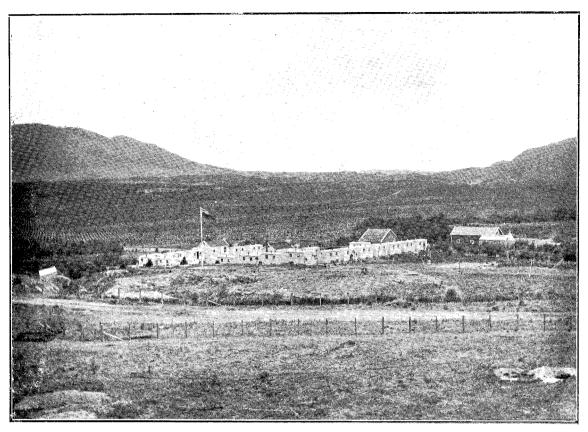
Kaa	ingaroa 1	Plains	Plantatio	ms (4).				
Amount at the 31st March Proportion of Nurseryman		 and tr	 avelling-e	 expenses		£ 318 4	13	. 0
	·			_		£322	13	0
							10	
	Puhin	uhi Pi	lantation.			£	s.	đ.
Amount at 31st March, 19	-						3. 14	
Buildings, new and addition	ons to old	l	•••	•••	•••	28	5	1
Pitting, 181,849, at 16s. 6d		• • •	•••			151		11
			•••			161	11 7	
Freight and cartage on tre					•••	14		5
Tools, implements, crates,		•••	•••	• • •	• • •	135		
Fencing—material and lab General formation	our	•••	***	•••		26 28	16	
Horse-shoeing and general	repairs						10	_
General maintenance	•••	•••		• • •			15	
Nurseryman's salary—pro		f, and	travelling	-expenses		23	$\frac{2}{15}$	3 0
Supervision	•••	•••	•••	•••				
					ا	€1,866	0	1
					-			
	K a	uncan 1	Tursery.			G	_	
Coaf of land and buildings		ww r	vursery.			£ 0750	s.	. d. . 0
Cost of land and buildings	•••		•••	•••	•••	£750	U	
Α	7							
Trees as per Schedule A A^1 A^2 A^3 Tools, implements, &c.	Ewel , 1905 	burn 1	<i>Nursery</i> . E s. d 	. £ 5,500	s. d. 6 6	\$ 3,787 238 543 890 410 2	13 16 15 2 2 4	4. 9 0 0 0 3
Amount at the 31st March Less value of trees horse-fe Trees as per Schedule A A1 A2 A8 Tools, implements, &c. Nursery-formation	Ewel , 1905 eed 	burn 1	Nursery. 8 s d 684 7 2 28 6 (5,500 2 3 - 1,712 	s. d. 6 6	\$ 3,787 238 543 890 410 2 34	13 16 15 2 2 4 16	4 9 0 0 0 3 ô
Amount at the 31st March Less value of trees horse-fe Trees as per Schedule A A1 A2 A8 Tools, implements, &c. Nursery-formation Horse-feed in stock	Ewel , 1905 eed	burn 1	Nursery. 8 s d 684 7 2 28 6 (5,500 2 3 - 1,712 	s. d. 6 6	\$ 3,787 238 543 890 410 2	13 16 15 2 2 4 16 4	4 9 0 0 0 3 6 0
Amount at the 31st March Less value of trees horse-fe Trees as per Schedule A A1 A2 A8 Tools, implements, &c. Nursery-formation	Ewell , 1905 eed	burn 1	Nursery. 8 s d 684 7 2 28 6 (5,500 2 3 - 1,712 	s. d. 6 6	3,787 238 543 890 410 2 34 44	13 16 15 2 2 4 16 4	4 9 0 0 0 3 ô
Amount at the 31st March Less value of trees horse-fe Trees as per Schedule A A1 A2 A8 Tools, implements, &c. Nursery-formation Horse-feed in stock Improved value	Ewell , 1905 eed	burn 1	Nursery. 8 s d 684 7 2 28 6 (5,500 2 3 - 1,712 	s. d. 6 6 6	3,787 238 543 890 410 2 34 44 215 173	13 16 15 2 2 4 16 4 12 4	4 9 0 0 0 3 3 6 0 8 1
Amount at the 31st March Less value of trees horse-fe Trees as per Schedule A A1 A2 A8 Tools, implements, &c. Nursery-formation Horse-feed in stock Improved value	Ewell , 1905 eed	burn 1	Nursery. 8 s d 684 7 2 28 6 (5,500 2 3 - 1,712 	s. d. 6 6	3,787 238 543 890 410 2 34 44 215	13 16 15 2 2 4 16 4 12 4	4 9 0 0 0 3 0 0 8
Amount at the 31st March Less value of trees horse-fe Trees as per Schedule A A1 A2 A8 Tools, implements, &c. Nursery-formation Horse-feed in stock Improved value	Eweld , 1905 eed	burn 1	Nursery. 8 s d 684 7 2 28 6 6	5,500 2 3 - 1,712 	s. d. 6 6	3,787 238 543 890 410 2 34 44 215 173	13 16 15 2 2 4 16 4 12 4	4 9 0 0 0 3 3 6 0 8 1
Amount at the 31st March Less value of trees horse-fe Trees as per Schedule A A1 A2 A8 Tools, implements, &c. Nursery-formation Horse-feed in stock Improved value	Eweld , 1905 eed	burn 1	Nursery. 8 s d 684 7 2 28 6 (5,500 2 1,712	s. d. 6 6	\$ 3,787 238 543 890 410 2 34 44 215 173	13 16 15 2 2 4 16 4 12 4	4 9 0 0 0 3 3 6 0 8 1
Amount at the 31st March Less value of trees horse-fe Trees as per Schedule A A1 A2 A8 Tools, implements, &c. Nursery-formation Horse-feed in stock Improved value	Eweld, 1905 eed	burn 1	Nursery. 8 s d 684 7 2 28 6 6	5,500 2 3 - 1,712 	s. d. 6 6 6	\$ 3,787 238 543 890 410 2 34 44 215 173 66,340	13 16 15 2 2 4 16 4 12 4	4 9 0 0 0 3 ô 0 8 1 - 7 - d.
Amount at the 31st March Less value of trees "horse-fe Trees as per Schedule A A1 A2 A8 Tools, implements, &c. Nursery-formation Horse-feed in stock Improved value Buildings—stable, sizing-sl	Eweld, 1905 eed	burn 1	Nursery. 8 s d 684 7 2 28 6 6	5,500 2 1,712	s. d. 6 6 6	\$ 3,787 238 543 890 410 2 34 44 215 173 6,340 £ 5,848	13 16 15 2 4 16 4 12 4 10	4 9 0 0 0 3 ô 0 8 1 7 d.
Amount at the 31st March Less value of trees "horse-fe Trees as per Schedule A A1 A2 A8 Tools, implements, &c. Nursery-formation Horse-feed in stock Improved value Buildings—stable, sizing-si Amount at the 31st March, Less value of trees Trees as per Schedule B B1	Eweld, 1905 eed	burn 1	Nursery. 8 s d 684 7 2 28 6 6	5,500 2 1,712	s. d. 6 6 6	\$ 3,787 238 543 890 410 2 34 44 215 173 66,340 £ 5,848 714	13 16 15 2 2 4 16 4 12 4 10	4 9 0 0 0 3 ô 0 8 1 - 7 - d.
Amount at the 31st March Less value of trees	Eweld, 1905 eed	burn 1	Nursery. 8 s d 684 7 2 28 6 6	5,500 2 1,712 13,683 7,835	s. d. 6 6 6	\$ 3,787 238 543 890 410 2 34 44 215 173 66,340 £ 5,848 714 1,783 1,510	13 16 15 2 2 4 16 4 12 4 10 s.	4 9 0 0 0 3 6 0 8 1 7 d.
Amount at the 31st March Less value of trees	Eweld , 1905 eed	burn 1	Nursery. 8 s d 684 7 2 28 6 6	5,500 2 1,712	s. d. 6 6 6	\$ 3,787 238 543 890 410 2 34 44 215 173 6,340 £ 5,848 714 1,783 1,510 2,446	13 16 15 2 2 4 16 4 12 4 10 s.	490000330081 7
Amount at the 31st March Less value of trees "horse-fe Trees as per Schedule A "A² "A² "A³ Tools, implements, &c. Nursery-formation Horse-feed in stock Improved value Buildings—stable, sizing-sl Amount at the 31st March, Less value of trees Trees as per Schedule B "B² "B³ Tools, implements, &c.	Eweld , 1905 eed	burn 1	Nursery. 8 s d 684 7 2 28 6 6	5,500 2 1,712	s. d. 6 6 6	\$ 3,787 238 543 890 410 2 34 44 215 173 6,340 £ 5,848 714 1,783 1,510 2,446 51	13 16 15 2 2 4 16 4 12 4 10 s.	4 9 0 0 0 3 6 0 8 1 7 d.
Amount at the 31st March Less value of trees horse-fel Trees as per Schedule A A1 A2 A8 Tools, implements, &c. Nursery-formation Horse-feed in stock Improved value Buildings—stable, sizing-sl Amount at the 31st March, Less value of trees Trees as per Schedule B B1 B2 B3 Tools, implements, &c. Buildings Improved value Improved value	Eweld , 1905 eed	burn 1	Nursery. 8 s d 684 7 2 28 6 6	5,500 2 1,712	s. d. 6 6 6	\$ 3,787 238 543 890 410 2 34 44 215 173 6,340 £ 5,848 714 1,783 1,510 2,446	13 16 15 2 2 4 16 4 12 4 10 s.	49000036081 7
Amount at the 31st March Less value of trees "horse-fe Trees as per Schedule A "A² A² A³ Tools, implements, &c. Nursery-formation Horse-feed in stock Improved value Buildings—stable, sizing-si Trees as per Schedule B "B² "B² "B³ Tools, implements, &c. Buildings Improved value Value of foal bred	Eweld , 1905 eed	burn 1	Nursery. 8 s d 684 7 2 28 6 6	13,683 7,835	s. d. 6 6 6	\$ 3,787 238 543 890 410 2 34 44 215 173 6,340 \$ 5,848 714 1,783 1,510 2,446 51 186 405 10	13 16 15 2 4 16 4 12 4 10 s.	4900036081 7 d. 2666699020
Amount at the 31st March Less value of trees horse-fel Trees as per Schedule A A1 A2 A8 Tools, implements, &c. Nursery-formation Horse-feed in stock Improved value Buildings—stable, sizing-sl Amount at the 31st March, Less value of trees Trees as per Schedule B B1 B2 B3 Tools, implements, &c. Buildings Improved value Improved value	Eweld , 1905 eed	burn 1	Nursery. 8 s d 684 7 2 28 6 6	5,500 2 1,712	s. d. 6 6 6	\$ 3,787 238 543 890 410 2 34 44 215 173 6,340 £ 5,848 714 1,783 1,510 2,446 51 186 405	13 16 15 2 4 16 4 12 4 10 s.	4900036081 7 d. 266669902

	Start	boro u gh	Nurser	y.						
A	1005		£ s.	d.	£	8.	d.		s.	d.
Amount at the 31st March, Less tools written off	1905	•••	7 0		6,636	17	9			
" trees D to D'		2	,842 18	_						
" horse-feed			144 4	2						
					2,994	2	8		4 8	4
Trees as per Schedule D								3,642 870		6
$\frac{1}{n}$ D^1		•••						760		ŏ
\mathbf{D}^{2}	•••	•••			• • •			797		0
Tools and implements	• • •		•••		• • •		• • •	1,379		9 5
Tools and implements Water-supply	•••	•••			•••		•••	60 6		7
Fencing		•••	•••		•••			26	6	3
Buildings	•••	•••	•••		•••		• • •	181	5	9
Nursery-formation	 820	•••	•••		•••		•••	$\frac{81}{270}$	8	5 3
Improved value by labour, Increased value of one colt	and one	illy, t	 wo veai	rs old	 d. at £	5 ea	 ich		_	0
Value of one yearling filly		•••						10		ŏ
Horse-feed in stock	•••	• • •	•••		•••		• • •	133	0	0
								£8,230	12	0
							ē	50,200	10	
	Uamman	Samia	an Maima	0001						
•	Hanmer	Spring	js ivurs	ery.	e	в.	d.	£	s.	đ.
Amount at the 31st March	, 1905		•••		2,051			<i>3</i> 5	в.	u.
Less value of trees		1		3	•					
" horse-fee	d	•••	25 0	-	1 450	1	9			
					1,459		_3 	592	17	8
Trees as per Schedule E								759		ő
$^ ^{\prime\prime}$ $^ ^ ^ ^-$		• • •	•••		• • •			1,132		2
″ E³	•••	•••	***		•••		• • •	376		0
Tools and implements	•••	• • • •	•••		•••		• • • •	$\frac{61}{12}$	$\frac{4}{19}$	7 5
Water-supply		•••	•••		•••		• • • •	4		2
Nursery-formation	•••	•••	•••					35	18	9
Seed-frames, new	•••		•••		• • •		• • •	15		- 9
Horse-feed in stock Improved value by labour	•••	•••	•••		•••		•••	$\frac{15}{28}$		0
improved value by labour	•••	•••	•••		•••		•••			
								£3,034	10	6
							•	<u></u>		=
	_									
	Roto	rua Ni	•		•				~	
Amount at the 31st March	1905		£ s.	d. 1	£ .7,464	s. 7	d. 7	£	s.	d.
Less value of trees		13,0	014 18	5	.,	•	•			
" horse-fee		•••	6 0	0						
" tools wri	tten off		$25 ext{ } 4$	1	2 046	2	6	,		
				I	3,046		_ 0	4,418	5	1
Trees as per Schedule C	• • •							4,529	10	6
$^{\prime\prime}$ $^{\prime\prime}$ $^{\prime\prime}$		•••	• • • •		• • •		• • •	2,722	1	0
$^{\prime\prime}$ $^{\mathrm{C}^2}$	•••	•••	•••		•••		•••	•		0
Formation of nursery		•••	•••		•••		•••	6,281 368		8 1
Tools and implements purc								25	-	ō
Water-supply, Extension of							•••		16	3
Fencing	···		•••		•••		•••	17	9	0
Buildings—new and additional Bridge, Part value of	ons to o	u ones			***		•••	$\begin{array}{c} 662 \\ 154 \end{array}$		$\frac{6}{0}$
Horse-feed in stock		•••	• • • • • • • • • • • • • • • • • • • •		•••		•••	15	0	ő
Improved value by labour			•••				•••	47		Ō
							_	00 600		
							#5 ==	22,690	U	1

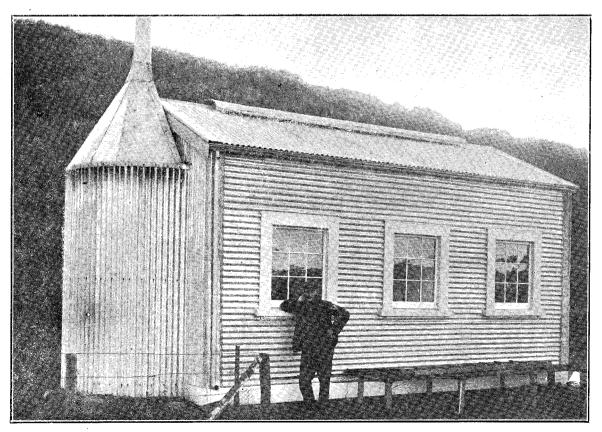
Ruatangata Nursery.

				nursery.						1.5	
				£ s. d	. £	8.	d.		£	8	đ.
Amount at the 31:	st March.	1905			2,237	13	1				
Less value of			1	1,119 16	6		_				
Dess value of					_						
"	horse-fe	ea	•••	40 0	0	4.0	_				
					- 1,159	16	6				
								1,0	077	16	7
Trees as per Sche	dule F								811	13	0
	F ¹								405		ŏ
"	_	•••	• • •	•••	•••		••				
"	\mathbf{F}^2		• • •		•••		• •	4	408	19	2
Nursery-formation	ı			• • •				9	210	1	5
Tools and implem									27	3	2
		•••	• • •		•••		• • •		~ .	_	
Seed-frames	• • •	• • •	• • •	• • •	• • •	•	• • •		64	. 9	2
Buildings	• • •			• • •					91	0	7
Horse-feed in stoc	k								136	0	0
7 7 1					*					19	1
Improved value	••	•••	• • •	•••	• • • •	•	••	,	<i>)</i>	10	1
				•							
								£3,8	553	8	2
								_			
	Nasa	ha Sama	n Pa	ddock Plan	station						
	11036	og Sarve	y I w	adoon I a	ecceptore.				£		đ.
A + - 4 + 1 91	-4 M1	1005						9 (8. 17.	_
Amount at the 31s		1909		• • •		•	• •	ο,	275		6
Trees as per Sche	dule A ^s								46	4	0
Tree-planting									16	7	9
				•						$\dot{1}\dot{2}$	6
Carting trees		•••	•••	•	•••		••		•	-	
Improved value by	y iabour	• • •			• • •		••		68	1	6
Increased value	•••								115	14	4
							_				
							- 4	60	524	17	7
							a	το,	J44	TI	- 1
		~.		70			-				
		Gimme	erburn	Reserve.							
		*			£	s.	d.		£	s.	d.
Amount at the 31s	st March.	1905			1,239	17	0				
Less trees ch			4_5			16	5				
mess wees cm	argea in e	1101 130	T-0	•••	20	10	O	1 0	210	Δ	77
_									213	0	7.
Trees as per Sche	dule A ^s			•••	•••			į	350	15	6
Cartage of trees				•••					16	4	0
									115	ō	2
Tree-planting	•••	•••	• • • •	•••	•••	•	• •				_
Pitting	• • • •				• • •		•••		16		0
Heeling in trees	• • •			•••					5	16	0
Men's huts									57	3	0
				•••					217		ŏ
Oats—2,176 bush		per busi	161	• • •	• • • • . *		• •		_		-
										1	3
Improved value by	y labour	₹•					• •		72	-	_
Improved value by	y labour	**	•••	.***	•••	•	٠.				
Improved value by	y labour	₹•	•••		•••	•	-	62 (
Improved value by	y labour	<.			•••	•	-	€2,0	064		3
Improved value by	y labour				•••	•	-		064	10	3
·		Dusky :		$Plantation. \$		•			064 £	10 s.	3 d.
Improved value by Amount at the 31s		Dusky :							064	10 s.	3 d.
Amount at the 31s	st March,	Dusky :	Hill	Plantation. 		•		17,8	064 £ 519	10 s. 9	3 d. 2
Amount at the 31s Trees planted as p	st March, per Schedi	Dusky : 1905 ale B³	Hill	Plantation.		•		17,8	064 £ 519 209	10 s. 9 11	3 d. 2 10
Amount at the 31s Trees planted as p Trees raised from	st March, per Schedu seed—21,	Dusky : 1905 ale B ^s 950	Hill	Plantation. 		•		17,8	£ 519 209 43	10 s. 9 11 9	3 d. 2 10 1
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr	st March, per Schedu seed—21,	Dusky : 1905 ale B ^s 950	Hill	Plantation. 		•		17,8	£ 519 209 43 3	10 s. 9 11 9 7	3 d. 2 10 1 6
Amount at the 31s Trees planted as p Trees raised from	st March, per Schedu seed—21,	Dusky : 1905 ale B ^s 950	Hill I	Plantation	•••	•		17,8	£ 519 209 43	10 s. 9 11 9 7	3 d. 2 10 1 6 6
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees	st March, per Schedu seed—21, om nurse	Dusky : 1905 ale B ⁸ 950 ry	Hill I	Plantation	•••	•		17,8	£ 519 209 43 3	10 s. 9 11 9 7	3 d. 2 10 1 6
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting	st March, per Schedt seed—21, om nurse 	Dusky 1905 ale B ⁸ 950 ry	Hill I	Plantation	•••	•		17,8	£ 519 209 43 3 64 76	10 s. 9 11 9 7 1	3 d. 2 10 1 6 6 6
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements	st March, per Schedt seed—21, om nurse 	Dusky 1905 ale B ⁸ 950 ry	Hill I	Plantation	•••	•] 	17,	£ 519 209 43 3 64 76 15	10 s. 9 11 9 7 1 7 15	3 d. 2 10 1 6 6 6 0
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by	st March, per Schedt seed—21, om nurse s y labour	Dusky 1905 ale B ⁸ 950 ry	Hill I	Plantation	•••	•		17,8	209 43 364 76 15	10 s. 9 11 9 7 1 7 15 14	3 d. 2 10 1 6 6 6 0 2
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements	st March, per Schedt seed—21, om nurse s y labour	Dusky 1905 ale B ⁸ 950 ry	Hill I	Plantation	•••	•] 	17,8	£ 519 209 43 3 64 76 15	10 s. 9 11 9 7 1 7 15	3 d. 2 10 1 6 6 6 0
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by	st March, per Schedt seed—21, om nurse s y labour	Dusky 1905 ale B ⁸ 950 ry	Hill I	Plantation		•] 	17,8	209 43 364 76 15	10 s. 9 11 9 7 1 7 15 14	3 d. 2 10 1 6 6 6 0 2
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by	st March, per Schedt seed—21, om nurse s y labour	Dusky 1905 ale B ⁸ 950 ry	Hill I	Plantation		•	 	17,8	£ 519 209 43 3 64 76 15 309 388	10 s. 9 11 9 7 1 7 15 14 6	3 d. 2 10 1 6 6 6 0 2 4
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by	st March, per Schedt seed—21, om nurse s y labour	Dusky 1905 ale B ⁸ 950 ry	Hill I	Plantation		•	 	17,8	209 43 364 76 15	10 s. 9 11 9 7 1 7 15 14	3 d. 2 10 1 6 6 6 0 2
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by	st March, per Schedt seed—21, om nurse s y labour	Dusky 1905 ale B ⁸ 950 ry	Hill I	Plantation		•	 	17,8	209 43 3 64 76 15 309 388	10 s. 9 11 9 7 1 7 15 14 6	3 d. 2 10 1 6 6 6 0 2 4
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value	st March, per Schedt seed—21, om nurse s y labour	Dusky 1905 ale B ⁸ 950 ry	Hill I	Plantation		•		17,8	\$519 209 43 3 64 76 15 309 688	s. 9 11 9 7 1 5 14 6 2	3 d. 2 10 1 6 6 6 0 2 4 1
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s	st March, per Schedt seed—21, om nurse s y labour	Dusky 1905 ale B* 950 ry Conical 1905	Hill I	Plantation		•		17,8	\$519 209 43 3 64 76 15 309 688	10 s. 9 11 9 7 1 7 15 14 6	3 d. 2 10 1 6 6 6 6 0 2 4 1
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s	st March, per Schedt seed—21, om nurse s y labour	Dusky 1905 ale B* 950 ry Conical 1905	Hill I	Plantation				17,8	064 £ 519 209 43 3 64 76 15 309 388 930 £	s. 9 11 9 7 1 5 14 6 2	3 d. 2 10 1 6 6 6 0 2 4 1
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p	st March, per Schedt seed—21, om nurse y labour st March, per Sched	Dusky 1905 ale B* 950 ry Conical 1905 ule B*	Hill I	Plantation Plantatio				7,8 1,8	2064 £ 519 209 43 3 64 76 15 309 588 930 £ 313 349	10 s. 9 11 9 7 1 7 15 14 6 2 s. 6 7	3 d. 2 10 1 6 6 6 6 0 2 4 1 d. 1 6
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from	st March, per Schede seed—21, om nurse y labour st March, per Sched seed—23	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600	Hill I	Plantation				7,8 1,8	2004 £ 519 209 43 3 64 76 15 309 588 930 £ 313 349 4470	10 s. 9 11 9 7 15 14 6 2 s. 6 7 9	3 d. 2 10 1 6 6 6 6 0 2 4 1 d. 1 6 6 6 6
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr	st March, per Schede seed—21, om nurse y labour st March, per Sched seed—23	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600	Hill I	Plantation Plantatio				7,8	\$ 519 209 43 3 64 76 15 309 588 930 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10 s. 9 11 9 7 1 7 15 14 6 2 s. 6 7 9 12	3 d. 2 10 1 6 6 6 0 2 4 1 d. 1 6 6 6 6
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees	st March, per Schede seed—21, om nurse y labour st March, per Sched seed—23	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600	Hill I	Plantation Plantatio				7,8	2004 £ 519 209 43 3 64 76 15 309 588 930 £ 313 349 4470	10 s. 9 11 9 7 1 7 15 14 6 2 s. 6 7 9 12 0	3 d. 2 10 1 6 6 6 6 0 2 4 1 d. 1 6 6 6 6
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees	st March, per Schedt seed—21, om nurse y labour st March, per Sched seed—23 om nurse	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600 ry	Hill I	Plantation Plantatio			£1	7,8	\$ 519 209 43 3 64 76 15 309 588 930 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10 s. 9 11 9 7 1 7 15 14 6 2 s. 6 7 9 12	3 d. 2 10 1 6 6 6 0 2 4 1 d. 1 6 6 6 6
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting	st March, per Schede seed—21, om nurse y labour st March, per Sched seed—23 om nurse	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600 ry	Hill I	Plantation Plantatio				7,8	064 £ 519 209 43 3 64 76 15 309 88 930 £ 313 349 470 17 470 726	10 s. 9 11 9 7 1 7 15 14 6 2 s. 6 7 9 12 0 3	3 d. 2 10 1 6 6 6 0 2 4 1 d. 1 6 6 6 6 3 0
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements	st March, per Schedt seed—21, om nurse y labour st March, per Sched seed—23 om nurse s, &c.	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600 ry	Hill I	Plantation			£1	7,8	\$ 15 19 209 43 3 64 76 15 309 588 930 \$ 2470 17 470 726 11	10 s. 9 11 9 7 1 7 15 14 6 2 s. 6 7 9 12 0 3 15	3 d. 2 10 1 6 6 6 6 0 2 4 1 6 6 6 6 3 0 1
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by	st March, per Schedt seed—21, om nurse y labour st March, per Sched seed—23 om nurse s, &c.	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600 ry	Hill I	Plantation Plantatio				7,8 1,8 2,7 4,8	\$ 15 309 43 3 64 76 15 309 470 17 470 726 11 155	10 s. 9 11 9 7 15 14 6 2 s. 6 7 9 12 0 3 15 10	3 d. 2 10 1 6 6 6 6 0 2 4 1 6 6 6 6 3 0 1 10
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by	st March, per Schedt seed—21, om nurse y labour st March, per Sched seed—23 om nurse s, &c.	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600 ry	Hill I	Plantation	n.		£1	7,8 1,8 2,7 4,8	\$ 15 19 209 43 3 64 76 15 309 588 930 \$ 2470 17 470 726 11	10 s. 9 11 9 7 15 14 6 2 s. 6 7 9 12 0 3 15 10	3 d. 2 10 1 6 6 6 6 0 2 4 1 6 6 6 6 3 0 1
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by	st March, per Schedt seed—21, om nurse y labour st March, per Sched seed—23 om nurse s, &c. y labour	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600 ry	Hills	Plantation	n.			7,8 1,8 2,7 4,8	\$ 15 309 43 3 64 76 15 309 470 17 470 726 11 155	10 s. 9 11 9 7 15 14 6 2 s. 6 7 9 12 0 3 15 10	3 d. 2 10 1 6 6 6 6 0 2 4 1 6 6 6 6 3 0 1 10
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by	st March, per Schedt seed—21, om nurse y labour st March, per Sched seed—23 om nurse s, &c. y labour	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600 ry	Hills	Plantation	n.		£1	7,8 1,8 2,7 4,8	209 43 3 64 76 15 309 388 930 £ 313 349 470 726 11 455 349	10 s. 9 11 9 7 15 14 6 2 s. 6 7 9 12 0 3 15 10 19	3 d. 2 10 1 6 6 6 6 6 0 2 4 1 1 6 6 6 6 6 6 3 0 1 0 1 0 1 0 1
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by	st March, per Schedt seed—21, om nurse y labour st March, per Sched seed—23 om nurse s, &c. y labour	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600 ry	Hills	Plantation	n.		£1	7,8 1,8 2,7 4,8	\$ 15 309 43 3 64 76 15 309 470 17 470 726 11 155	10 s. 9 11 9 7 15 14 6 2 s. 6 7 9 12 0 3 15 10	3 d. 2 10 1 6 6 6 6 0 2 4 1 6 6 6 6 3 0 1 10
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by	st March, per Schedt seed—21, om nurse y labour st March, per Sched seed—23 om nurse s, &c. y labour	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600 ry	Hills	Plantation	n.		£1	7,8 1,8 2,7 4,8	\$ 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	10 s. 9 11 9 7 15 14 6 2 s. 6 7 9 12 0 3 15 10 19 4	3 d. 2 10 1 6 6 6 6 6 0 2 4 1 1 6 6 6 6 3 0 1 10 7 4
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value	st March, per Schedt seed—21, om nurse y labour st March, per Sched seed—23 om nurse s, &c. y labour	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600 ry	Hills	Plantation	n.		£1	7,8 1,8 2,7 4,8	\$ 155 549 664 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10 s. 9 11 9 7 1 15 14 6 2 s. 6 7 9 12 0 3 15 10 19 4	3 d. 2 10 1 6 6 6 6 0 2 4 1 d. 1 6 6 6 6 3 0 1 10 7 4 d.
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value	st March, per Schedt seed—21, om nurse y labour st March, per Sched seed—23 om nurse s, &c. y labour	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600 ry	Hills	Plantation	n.		£1	7,8 1,8 2,7 4,8	\$ 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	10 s. 9 11 9 7 15 14 6 2 s. 6 7 9 12 0 3 15 10 19 4	3 d. 2 10 1 6 6 6 6 6 0 2 4 1 1 6 6 6 6 3 0 1 10 7 4
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Fencing	st March, per Scheduseed—21, om nurse	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600 ry	Hills	Plantation Plantatio	n.		£1	7,8 1,8 2,7 4,8	\$ 15 19 209 43 3 64 15 15 309 368 8 13 349 470 17 1470 664 11 155 349 3664 \$ 25	10 s. 9 11 9 7 1 15 14 6 2 s. 6 7 9 12 0 3 15 10 19 4	3 d. 2 10 1 6 6 6 6 0 2 4 1 d. 1 6 6 6 6 3 0 1 10 7 4 d.
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value	st March, per Scheduseed—21, om nurse	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600 ry	Hill I	Plantation	n.		£1	7,8 1,8 2,7 4,8	\$ 155 549 664 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10 s. 99 11 97 15 14 6 2 s. 66 7 99 12 0 3 15 10 19 4 s. 7	3 d. 2 10 1 6 6 6 6 0 2 4 1 d. 1 6 6 6 6 3 0 1 10 7 4 d. 7
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Fencing	st March, per Scheduseed—21, om nurse	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600 ry	Hills	Plantation Plantatio	n.		£1	7,8 1,8 1,8 1,6	\$ 15 19 209 43 3 64 76 15 368 930 \$ 313 349 470 177 470 6726 11 455 349 364 \$ 25 14	10 s. 99 11 97 15 14 6 2 s. 6 7 9 12 0 3 15 10 19 4 s. 7 2	3 d. 2 10 1 6 6 6 6 0 2 4 1 d. 1 6 6 6 6 3 0 1 10 7 4 d. 7 0
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Fencing	st March, per Scheduseed—21, om nurse	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600 ry	Hills	Plantation Plantatio	n.		£1	7,8 1,8 1,8 1,6	\$ 15 19 209 43 3 64 15 15 309 368 8 13 349 470 17 1470 664 11 155 349 3664 \$ 25	10 s. 99 11 97 15 14 6 2 s. 66 7 99 12 0 3 15 10 19 4 s. 7	3 d. 2 10 1 6 6 6 6 0 2 4 1 d. 1 6 6 6 6 3 0 1 10 7 4 d. 7
Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Amount at the 31s Trees planted as p Trees raised from Cartage of trees fr Planting trees Pitting Tools, implements Improved value by Increased value Fencing	st March, per Scheduseed—21, om nurse	Dusky 1905 ale B ⁸ 950 ry Conical 1905 ule B ⁸ 9,600 ry	Hills	Plantation Plantatio Plantation.	n.		£1	7,8 1,8 1,8 1,6	\$ 15 19 209 43 3 64 76 15 368 930 \$ 313 349 470 177 470 6726 11 455 349 364 \$ 25 14	10 s. 99 11 97 15 14 6 2 s. 6 7 9 12 0 3 15 10 19 4 s. 7 2	3 d. 2 10 1 6 6 6 6 0 2 4 1 d. 1 6 6 6 6 3 0 1 10 7 4 d. 7 0

H	anmer	Springs	Plantatio	o n .		£	8.	đ.
Amount at the 31st March,			•••	•••	• • • •	4,764	14	5
Trees, as per Schedule E ⁸	•••		•	• • •	•••	190 47		10 3
Tools, implements, &c.	•••	•••	•••	• • • • • • • • • • • • • • • • • • • •		49		3
Fencing—material Buildings	•••			•••			18	
Free labour—				£ s.	đ.			
Marking pits		• • •	• • •	129 13	9			
Planting trees	•••	• • •	•••	$\begin{array}{c} 11 & 0 \\ 28 & 11 \end{array}$	$\frac{0}{11}$			
Draining Prison labour—	•••	•••	•••	20 11		169	5	8
Pitting			• • •	229 9	0			
Clearing scrub	• • •	• •••		88 6	8			
Tree-planting	•••	•••	•••	$ \begin{array}{ccc} 23 & 6 \\ 1 & 0 \end{array} $	$\frac{3}{10}$			
Marking pits Building tool-house and	 d impl	 ement-sh	$_{ m ed}$	8 3	9			
Improvements by labor				153 7	1			_
						503 118	1.1	7 0
Improved value by labour	•••	•••	• • •	••	• • • •	210		9
Increased value	•••		•••	•••	•••			
						£6,079	13	7
	тэ '	പുവാനം	mtation		i			
		ncliff Pla	muution.			£ 1 205	s. 10	d. 7
Amount at the 31st March,	1905	•••	•••	• • • • •	• • •	$\frac{1,305}{61}$		4
Increased value	•••	• • • •	•••	•••	• • •			
					ä	£1, 367	14	11
	Dayas	igree Pla	ntation		-			_
Amount at the 31st March,		yree ru		£ s. 5,830 13	d. 8	£	s.	d.
Less tools written off	1900	•••		8 11	1			
11000 00010 1111001	•••					•	2	7
Trees planted as per Schedu	ale D ⁸	• • •	•••	•••		1,244	10 5	3 0
Cartage of trees	•••	• • •	•••	•••		$\begin{array}{c} 29 \\ 678 \end{array}$	7	8
Digging 268,513 pits Planting 214,725 trees	• • •	•••	•••			237	19	2
Digging trenches and heelir			•••	•••		10	17	0
Tools and implements		• • •	•••	•••	• • •	100 87	$\frac{6}{1}$	3 9
Improvements by labour	 r	•••	•••	•••	•••	85	-8	6
Supervision of prison labour Supervision of free labour				•••		51	8	6
General maintenance				• •••	·	69	6	0
Prison labour—				£ 8.	d. 6			
Digging 158,025 pits Reopening 11,000 pits	•••	•••	•••	$\begin{array}{c} 332 \ 17 \\ 7 \ 13 \end{array}$	1			
Planting 146,150 trees		·		159 3	8			
Pit-marking, 174,085		• • •	•••	50 2	7			
Roadmaking, 63 chains	3		50 troop	60 4 50 6	6 6			
Digging trenches and h Pruning and clearing a	round	trees	o trees	108 18				
11thing and oloming a		V .				769		10
Increased value	• • •	•••	•••	•••	•••	59	10	0
						£9,245	8	6
		•					-	
		otapu Pla	antation.	£ s.	d.		s.	d.
Amount at the 31st March,	1905		•••	$11,222 15 \\ 28 9$	$\frac{6}{2}$			
Less tools written off	•••	•••	•••	40 9		11,194	6	4
Trees, as per Schedule C ³						3,151	2	8
Carting trees		•••	•••	•••	• • •	44	5	0
Fencing	• • •	•••	•••	•••	• • •	20 19		0 8
Tools and implements, &c. Buildings						5	9	ĭ
Bridge (part value)		•••		•••		133	6	8
Improved value by labour	,	•••	•••				5	4
Value of prison labour—	na			£ s. 997 0	d. 0			
Clearing for tree-planti Pitting	^ມ ອັ		•••	732 17	6			
Planting		•••	•••	3 29 5	10			
Roading	•••	•••	•••	$\begin{array}{cc} 28 & 5 \\ 14 & 12 \end{array}$	0 6			
Fencing and draining Miscellaneous improve	 mente	•••	•••	180 0	0			
miscenaneous improve		•••	•••		_	2,282		10
Horse-feed in stock		•••	• • •		• • •	15		. 0
Increased value	•••	,,,	•••	•••	• • • •	389	-8	9
					£	17,618	19	4
e e je o d					ř			=



PRISON CAMP, WAIOTAPU.



Type of Workshop erected at Prison Camp.

	Whakareu	parema	Plantation						
				£	s.	đ.	£	s.	d.
Amount at the 31st March	ı, 1905	•••	•••	9,825	15	4			
Less tools written off			• • •	16	9	2			
							9,809	6	2
Trees, as per Schedule C ³	• • •	•••	•••			• • •	3,067	-6	6
Clearing land	• • •	• • •	•••	• • •		•••	219		6
Pitting for tree-planting	•••	• • •	•••	• • •		•••	725	1	9
Tree-planting	• • •	• • •	• • •	• • •		• • •	147	10	8
Fencing	***	•••	***	•••		• • •	68	.8	4
Roadmaking	•••	• • •	•••			•••	20		6
Carting trees	•••		• • •	•••		•••	44	2	0
Tools and implements, &c.		• • •	***	• • •		• • •		8	2
Buildings and additions to	•••	•••		• • •		•••	10		5
Bridge (part value)	•••	• • •	•••	• • •		• • •	89	6	11
Improved value by labour	• • •		• • •	••		•••	1,110	13	11
Value of prison labour—				£_	s.	d.			
Clearing for tree-plan	ting		•••	317	9	- 8			
Forming horse-paddo	ck	• • •		51	17	0			
Pitting for tree-planti	ng			13	13	9			
Tree-planting	•••			240	7	3			
Roading			•••	23	4	6			
Fencing and draining				14	6	6			
Miscellaneous works			• • •	57	9	8			
							718	-8	4
Horse-feed in stock				• • •			10	0	0
Increased value							359	13	9
						-			
						£	16,629	4	11
						_			
1	Kaingaroa	Plains	Plantation	<i>ı</i> s.					
		Plains	Plantation	ıs. £	s.	d.		8,	d.
Amount at the 31st March		Plains	Plantation	£ 580	18	10)	8.	đ.
	ı, 1905	Plains	Plantation	£					
Amount at the 31st March Less tools written off	n, 1905 		•••	£ 580	18	10	574	13	10
Amount at the 31st March Less tools written off Improved value by labour	n, 1905 		•••	£ 580	18	10	574 4	13 0	10 0
Amount at the 31st March Less tools written off	n, 1905 			£ 580	18	10 0	574 4	13	10
Amount at the 31st March Less tools written off Improved value by labour	n, 1905 			£ 580	18	10 0 	574 4 22	13 0 19	10 0
Amount at the 31st March Less tools written off Improved value by labour	n, 1905 			£ 580	18	10 0 	574 4	13 0 19	10 0
Amount at the 31st March Less tools written off Improved value by labour	 			£ 580	18	10 0 	574 4 22	13 0 19	10 0 9
Amount at the 31st March Less tools written off Improved value by labour	 			£ 580	18	10 0 	574 4 22	13 0 19	10 0 9
Amount at the 31st March Less tools written off Improved value by labour Increased value	n, 1905 Puhip			£ 580	18	10 0 	574 4 22 £601 £	13 0 19 13	10 0 9 7
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March	n, 1905 Puhip	 whi Pl	 antation.	580 6 	18	10 0 	574 4 22 £601 £1,216	13 0 19 13 s.	10 0 9 7 d.
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March Trees, as per Schedule F ²	Puhip	 uhi Pl	 antation. 	580 6 	18		574 4 22 £601 £ 1,216 408	13 0 19 13 s. 3	10 0 9 7 d.
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March Trees, as per Schedule F ² Trees raised in situ—12,60	Puhipan, 1905 Puhipan, 1905 00 acorns,	 uhi Pl at £1 £	 antation. 	580 6 	18		574 4 22 £601 £ 1,216 408 15	13 0 19 13 s.	10 0 9 7 d. 7 2
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March Trees, as per Schedule F ² Trees raised in situ—12,60 Pitting	Puhip	 uhi Pl	 antation. 	580 6 	18		574 4 22 £601 £ 1,216 408 15 151	13 0 19 13 s. 3 19 15 2	10 9 7 d. 7 2 0 11
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March Trees, as per Schedule F ² Trees raised in situ—12,60 Pitting Clearing and burning	Puhipan, 1905 Puhipan, 1905 00 acorns,	 uhi Pl at £1 £	 antation. 5s. per 1,00	 6 0	18		574 4 22 £601 £ 1,216 408 15 151 306	13 0 19 13 s. 3 19 15 2 11	10 9 7 d. 7 2 0 11 9
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March Trees, as per Schedule F ² Trees raised in situ—12,60 Pitting Clearing and burning Tree-planting and freight	Puhipan, 1905 Puhipan, 1905 00 acorns, con trees	 uhi Pl at £1 £	 antation. 	580 6 	18		$ \begin{array}{r} 574 \\ 4 \\ 22 \\ \hline £601 \\ \hline £ 1,216 \\ 408 \\ 151 \\ 306 \\ 175 \end{array} $	13 0 19 13 8. 3 19 15 2 11 11	10 0 9 7 d. 7 2 0 11 9 2
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March Trees, as per Schedule F ² Trees raised in situ—12,60 Pitting Clearing and burning Tree-planting and freight Tools, implements, &c.	Puhipan, 1905 Puhipan, 1905 00 acorns,	 uhi Pl at £1 £	 antation. 5s. per 1,00	 6 0	18		574 4 22 £601 £ 1,216 408 15 151 306 175 135	13 0 19 13 8. 3 19 15 2 11 11 7	10 0 9 7 d. 7 2 0 11 9 2 5
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March Trees, as per Schedule F ² Trees raised in situ—12,60 Pitting Clearing and burning Tree-planting and freight Tools, implements, &c. Fencing	Puhipan, 1905 Puhipan, 1905 00 acorns, con trees	uhi Pli at £1 £	 antation. 5s. per 1,00	 6 0	18		$ \begin{array}{r} 574 \\ 4 \\ 22 \\ \hline £601 \\ \hline £ 1,216 \\ 408 \\ 151 \\ 306 \\ 175 \\ 135 \\ 26 \end{array} $	13 0 19 13 8. 3 19 15 2 11 11 7 16	10 0 9 7 d. 7 2 0 11 9 2 5 0
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March Trees, as per Schedule F ² Trees raised in situ—12,60 Pitting Clearing and burning Tree-planting and freight Tools, implements, &c. Fencing General formation	Puhipan, 1905 Puhipan, 1905 00 acorns, con trees	 uhi Pla at £1 &	 antation. 5s. per 1,00	 6 0	18		$ \begin{array}{r} 574 \\ 4 \\ 22 \\ \hline £601 \\ \hline £ 1,216 \\ 408 \\ 151 \\ 306 \\ 175 \\ 135 \\ 26 \\ 28 \end{array} $	13 0 19 13 s. 3 19 15 2 11 11 7 16 7	10 0 9 7 d. 7 2 0 11 9 2 5 0 9
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March Trees, as per Schedule F ² Trees raised in situ—12,60 Pitting Clearing and burning Tree-planting and freight Tools, implements, &c. Fencing General formation Buildings (new) and additional controls of the situation	Puhip 1, 1905 Puhip 1, 1905 20 acorns, con trees ions to old	at £1 & ones	 antation. 5s. per 1,00	 6 0	18		574 4 22 £601 £ 1,216 408 15 1516 306 175 135 26 28 28	13 0 19 13 s. 3 19 15 2 11 11 7 16 7 5	10 0 9 7 d. 7 2 0 11 9 2 5 0 9 1
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March Trees, as per Schedule F ² Trees raised in situ—12,60 Pitting Clearing and burning Tree-planting and freight Tools, implements, &c. Fencing General formation Buildings (new) and additi Improved value	Puhip 1, 1905 Puhip 1, 1905 20 acorns, on trees ions to old	 uhi Pla at £1 &	 antation. 5s. per 1,00	 6 0	18		$ \begin{array}{r} 574 \\ 4 \\ 22 \\ \hline £601 \\ \hline £ 1,216 \\ 408 \\ 151 \\ 306 \\ 175 \\ 135 \\ 26 \\ 28 \\ 277 \end{array} $	13 0 19 13 8. 3 19 15 2 11 11 7 16 7 5 12	10 0 9 7 a. 7 2 0 11 9 2 5 0 9 1 7
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March Trees, as per Schedule F ² Trees raised in situ—12,60 Pitting Clearing and burning Tree-planting and freight Tools, implements, &c. Fencing General formation Buildings (new) and additional controls of the situation	Puhip 1, 1905 Puhip 1, 1905 20 acorns, con trees ions to old	at £1 & ones	 antation. 5s. per 1,00	 6 0	18		$ \begin{array}{r} 574 \\ 4 \\ 22 \\ \hline £601 \\ \hline £ 1,216 \\ 408 \\ 151 \\ 306 \\ 175 \\ 135 \\ 26 \\ 28 \\ 277 \end{array} $	13 0 19 13 s. 3 19 15 2 11 11 7 16 7 5	10 0 9 7 d. 7 2 0 11 9 2 5 0 9 1
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March Trees, as per Schedule F ² Trees raised in situ—12,60 Pitting Clearing and burning Tree-planting and freight Tools, implements, &c. Fencing General formation Buildings (new) and additi Improved value	Puhip 1, 1905 Puhip 1, 1905 20 acorns, on trees ions to old	at £1 & ones	 antation. 5s. per 1,00	 6 0	18		574 4 22 £601 £ 1,216 408 15 151 306 175 135 26 28 28 277 39	13 0 19 13 8. 3 19 15 2 11 11 7 16 7 5 12 12	10 0 9 7 d. 7 2 0 11 9 2 5 0 9 1 7 2
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March Trees, as per Schedule F ² Trees raised in situ—12,60 Pitting Clearing and burning Tree-planting and freight Tools, implements, &c. Fencing General formation Buildings (new) and additi Improved value	Puhip 1, 1905 Puhip 1, 1905 20 acorns, on trees ions to old	at £1 & ones	 antation. 5s. per 1,00	 6 0	18		$ \begin{array}{r} 574 \\ 4 \\ 22 \\ \hline £601 \\ \hline £ 1,216 \\ 408 \\ 151 \\ 306 \\ 175 \\ 135 \\ 26 \\ 28 \\ 277 \end{array} $	13 0 19 13 8. 3 19 15 2 11 11 7 16 7 5 12	10 0 9 7 a. 7 2 0 11 9 2 5 0 9 1 7
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March Trees, as per Schedule F ² Trees raised in situ—12,60 Pitting Clearing and burning Tree-planting and freight Tools, implements, &c. Fencing General formation Buildings (new) and additi Improved value	Puhipan, 1905 Puhipan, 1905 00 acorns, con trees		antation os. per 1,000	 6 0	18		574 4 22 £601 £ 1,216 408 15 151 306 175 135 26 28 28 277 39	13 0 19 13 8. 3 19 15 2 11 11 7 16 7 5 12 12	10 0 9 7 d. 7 2 0 11 9 2 5 0 9 1 7 2
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March Trees, as per Schedule F ² Trees raised in situ—12,60 Pitting Clearing and burning Tree-planting and freight Tools, implements, &c. Fencing General formation Buildings (new) and additi Improved value Increased value	Puhipan, 1905 Puhipan, 1905 00 acorns, con trees tons to old	at £1 & ones	antation os. per 1,000	 6 0	18		574 4 22 £601 £ 1,216 408 151 306 175 135 26 28 28 277 39 £2,810	13 0 19 13 8. 3 19 15 2 11 11 7 16 7 5 12 12 12 4	10 0 9 7 d. 7 2 0 11 9 2 5 0 9 1 7 2 7
Amount at the 31st March Less tools written off Improved value by labour Increased value Amount at the 31st March Trees, as per Schedule F ² Trees raised in situ—12,60 Pitting Clearing and burning Tree-planting and freight Tools, implements, &c. Fencing General formation Buildings (new) and additi Improved value	Puhipan, 1905 Puhipan, 1905 00 acorns, con trees tons to old		antation os. per 1,000	 6 0	18		574 4 22 £601 £ 1,216 408 15 151 306 175 135 26 28 277 39 £2,810	13 0 19 13 8. 3 19 15 2 11 11 7 16 7 5 12 12 12	10 0 9 7 d. 7 2 0 11 9 2 5 0 9 1 7 2

Reference-list of Forest Trees and Shrubs grown at the various Nurseries and Plantations, 1905–6. (E, evergreen; D, deciduous.)

Name of Tree.	Synonym.	Common Name.	Habitat.
Acacia melanoxylon (E) Acer saccharum (D)	Acer saccharinum	Blackwood Sugar maple	South east Australia. North America.
" pseudo-platanus (D)		Sycamore	Europe and Asia.
Æsculus hippocastanum (D)		Horse-chestnut	South-east Europe.
Alectryon excelsum (E) Alnus glutinosa (D)	•••	Titoki	New Zealand. Europe and Asia.
Benthamia fragifera (E)		Indian strawberry	India.
Betula alba (D)		Silver-birch	Europe. Northern India.
Berberis aristata (D) Castanea sativa (D)	Castanea vesca	Barberry Sweet or Spanish chestnut.	Europe and Asia.
Catalpa speciosa (D)	Bignonia catalpa	Hardy catalpa	United States.
Cerasus lauro-cerasus (E) Chamæcyparis Lawsoniana	Cupressus Lawsoniana	Common laurel Lawson's cypress, or white-	Levant. Northern California.
(E)	Oupressus Lawsoniana	cedar	Trotteeth Camornia.
Chamæcyparis thyoides (E)	Retinospora ericoides	White-cedar	Eastern United States.
Cordyline Hookerii (E)	Dracæna Hookerii	Toi	North Island, New Zealand.
" indivisa (È)	" indivisa	Toi	South Island, New Zealand.
Corokia buddleoides (E)	••	Korokia	New Zealand. Britain.
Corylus avellana (D) Corynocarpus lævigata (E)	••	Filbert Karaka, New Zealand laurel	New Zealand.
Cotoneaster Simonsii (E)	••	Rockspray	Unknown.
Eucalyptus amygdalina (E)	•• *	Almond-leaved peppermint-	Victoria, New South Wales, and Tasmania.
" calophylla (E)	••	gum Red-gum	South-west Australia.
" capitellata (E)	• • •	Head-flowered stringy-bark	New South Wales and Gippsland.
" corymbosa (E)	••	Bloodwood	New South Wales and South Queensland.
" coccifera (E)		Mountain-peppermint	Alpine districts of Tasmania.
" corynocalyx (E)		Sugar-gum	South-east Australia.
" crebra (E)	••	Narrow-leaved ironbark	New South Wales and Queens- land.
" ficifolia (E)	••	Scarlet-flowering gum	South-west Australia.
" globulus (E)	••	Blue-gum	Tasmania and Victoria.
" Gunnii (E)	• •	Cider-gum	Victoria, New South Wales, and Tasmania.
" hæmastoma (E)		Gum-topped stringy-bark	Tasmania and Victoria.
" leucoxylon (E) " macrorhyncha (E)	Eucalyptus sideroxylon	Victorian red ironbark Stringy-bark of Victoria	South Australia. Victoria.
" marginata (E)		Jarrah	South-west Australia.
" Muellerii (E)	• •	Mountain red-gum	Mountains of Tasmania.
" maculata (E)	••	Spotted gum	New South Wales and Queens- land.
" obliqua (E)	••	Stringy-bark or messmate	Victoria, New South Wales,
nauciflora (E)	Eucalyptus coriacea	White or drooping gum	Tasmania. Ditto.
" paniculata (E)	" fasciculosa	Red ironbark	New South Wales and South-
milulania (E)		Dil-b-44	west Australia.
" pilularis (E)	• •	Blackbutt	New South Wales, Queensland, and Gippsland.
" regnans (\mathbf{E})	••	Swamp-gum	Tasmania and Victoria.
" saligna (E)	••	Grey or flooded gum	New South Wales and South
" Stuartiana (E)	••	Apple-scented gum	Queensland. Tasmania and South-east Aus-
C. 1	73 1	77	tralia.
" Sieberiana (E) " siderophloia (E)	Eucalyptus virgata persicifolia	Yowut, mountain ash Sydney ironbark	Ditto. Eastern Queensland and Port
	" Largeratum		Jackson.
" teretecornis (E) " urnigera (E)	• •	Red-gum of Queensland Urn-bearing gum	New South Wales and Gippsland Tasmania.
" redunca (E)	••	The wando or white-gum	Western Australia.
" resinifera (É)	••	Red or forest mahogany	New South Wales and Queens-
" viminalis (E)	•	Swamp or manna gum	land. Tasmania and Victoria.
Eleagnus Japonica (E)	••	Wild olive	Japan.
Escallonia macrantha (E) Fraxinus Americana (D)	Praving Agaminat	Chilian gum-box White American ash	Chili. Eastern United States.
Erakinas Emontana (D)	Fraxinus Acuminata, F. alba	White American ash	124600III OHITEG 30%008.
Fraxinus excelsior (D)	••	English ash	Europe and Asia.
Fagus fusca (E)	••	Red beech or birch Red, white, black, or brown	New Zealand.
	••	birch	
Fagus sylvatica (D)	••	Beech	Europe.
Griselinia littoralis (E) Hikora ovata (D)	Carya alba	Broadleaf, papauma Shagbark, hickory	New Zealand. Eastern North America.
" pecan (D)	" olivæformis	Pecan nut	"
Juglans cineria (D nigra (D)	• •	Butternut Black walnut	<i>"</i>
" regia (D)	••	Walnut	Europe and Asia.
Juniperus Virginiana (E	Juniperus Barbadensis	Red cedar	North America.
Knightia excelsa (E) Larix Europæa (D)	Pinus larix	Rewarewa or honeysuckle European larch	North New Zealand. Europe.
Liriodendron tulipiferum (D)		Tulip-tree, basswood	United States.
Laburnum vulgare (D)	Cytisus laburnum	Laburnum	Europe.
Ligustrum lucidum (E)	••	Shiny-leaved privet	China.

Reference-list of Forest Trees and Shrubs grown at the various Nurseries and Plantations, 1905–6. (E, evergreen; D, deciduous)—continued.

Name of Tree.	Synonym.	Common Name.	Habitat.
Myoporum lætum (E)		Ngaio	New Zealand.
Melicytus lanceolatus (E)	• •	Narrow-leaved hinehine	a.c. Zouwana
Metrosideros tomentosa (E)	••	Pohutukawa	North Island, New Zealand.
" lucida (E)	• •	Southern rata	South Island, New Zealand.
Olearia Fosterii (E)	Shawia paniculata	l ~	New Zealand.
			Chatham Islands.
" Traversii (E)	• •		
Phormium tenax (E)	••	Flax	New Zealand.
Phyllocladus trichomanoides	• •	Tanekaha	"
D.(E)			
Picea excelsa (E)	Abies excelsa	Norway spruce	Europe.
" sitchensis (E)	" Menziesii	Tideland spruce	Alaska, Northern Canada.
" Canadensis (E)	• •	White-spruce	North-east United States.
Pinus Austriaca (E)	• •	Austrian pine	Southern Europe.
" Canariensis (${ m E}$)	• •	Canary pine	Canary Islands.
" contorta (E)	Pinus Murrayana, Pinus Bolanderi	Twisted pine	Alaska to California.
" Coulterii (E)	Pinus macrocarpa	Great-coned pine	California.
owoolen (F)	" pendula	Himalayan pine	Himalayan Mountains.
Howilia (Tr)	" pontala	Limber pine	Rocky Mountains, Eierra Nevada
halanancia (E)	::		Levant.
	••		Northern California, Oregon.
" Lambertiana (E)	• ••		Conthern Torons
" Laricio (E)	••		Southern Europe.
" muricata (E)	• •	Prickly-coned or Bishop's pine	
" ponderosa (É)	••	Heavy or bull pine	North-west America.
" ponderosa, var. Ben-	• •	Bentham's yellow-pine	British Columbia.
" thamiana (E)			
" pinaster (E)	Pinus maritima	Cluster-pine	Southern Europe.
" radiata (É)	" insignis	Monterey pine	California.
" rigida (E)	. • •	Pitch-pine	New England to Virginia.
" Sabiniana (E)	e: e	Nut-pine	California.
" strobus (\mathbf{E})	• •	Weymouth pine	North America.
Piptanthus Nepalensis (E)	• •	Evergreen laburnum	Himalayas.
Pittosporum crassifolium (E)	• •	Karo	New Zealand.
" eugenioides (E)		Matipo, tarata	,,
" tenuifolium (E)		" tawhiri	
" Buchananii (E)	- 1	" tawhiwhi	<u>"</u>
Populus deltoides (D)	Populus monolifera,	Canadian or black Italian	North America.
Populus nigra pyramidalis	Populus Canadensis Populus dilatata, Populus featigata	poplar Lombardy poplar	Europe and Northern Asia.
(D)	lus fastigata	TZ - 1 - 1 4	N 711
Podocarpus dacrydioides (E)	ST	Kahikatea	New Zealand.
" totara (E)	Nageia totara	Totara	"
Hallii (E)	" Hallii	Large-leaved totara	D
Pseudo tsuga taxifolia (E)	Abies Douglasii	Oregon pine	British Columbia, Pacific Coast &c.
Pyrus aucuparia (D)	Sorbus aucuparia	Rowan-tree, mountain-ash	Europe and Asia.
Quercus coccinea (D)		Scarlet oak	Eastern North America.
" macrocarpa (D)		Burr oak	<u>,</u>
" pedunculata (D)	Quercus robur	British oak	Europe and West Asia.
" palustris (D)		Pin-oak	South-east of North America.
" suber (D)	• • • • • • • • • • • • • • • • • • • •	Cork-oak	Southern Europe.
Raphiolepsis ovata (E)	••	Indian hawthorn	India.
Retinospora, varieties (E)	••	Cypress	Japan.
Pohinia nganda sassis (D)	••	Black loquat or false acacia	Pennsylvania Mountains.
Robinia pseudo acacia (D)	• •		
Salix Caprea (D)	Calin langifulia	Goat willow	Europe (Britain).
" viminalis (D)	Salix longifolia	Common osier	Duitain "
" vitellina (D)	••	Golden osier	Britain.
Senecio rotundifolius (E)		Leatherleaf	New Zealand.
Sequoia sempervirens (E)	Taxodium sempervirens		California.
Sophora tetraptera (E) or (D)	Edwardsia microphylla	Kowhai	New Zealand.
Sophera tetraptera (13) or (2)		m	100
Tamarix gallica (E)	••	Tamarisk	Europe.
	••	Tamarisk	Europe. New Zealand.

Schedule A.—One-year-old Trees.—Details of Trees grown at Eweburn Nursery, 1905-6. (Tenth Crop.)

Name of Tr	ee.	Number in Seed-beds.		Amount of Seed sown.	1. 1	alue per usand	1.	Total Value.	Remarks.
Pinus Austriaca " Laricio " ponderosa " Jeffreyii " Torreyana " Benthamiana Larix Europæa		 20,900 66,500 18,000 200 150 2,000 130,500 238,250	152-52 152-152 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Lb. 14 42 14 1 1 3 140	1 1 1 1 1 1	s. d 0 0 0 0 5 0 5 0 5 0)	£ s. d. 20 18 0 66 10 0 18 0 0 0 5 0 0 3 9 2 10 0 130 10 0	Very good. Very thin crop. Good results. Have done well. Satisfactory crop.

Schedule A¹.—Two-year-old Trees.—Details of Trees grown at Eweburn Nursery, 1904-5. (Ninth Crop.)

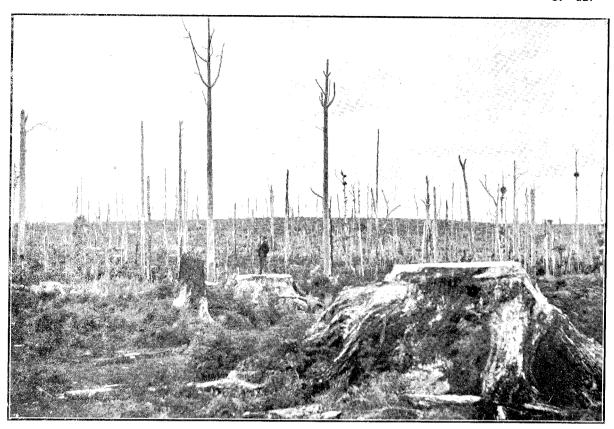
Name of Tree.		Number in Seed-beds.	Height Ín Inches.	Value per Thousand.	Total Value.	Řemarks.	
Pinus Austriaca " Laricio " ponderosa " halepensis " halepensis " muricata Larix Europæa Cytisus vulgare Totals			100,000 100,000 12,500 8,000 18,000 12,000 100,000 60,500	3 3 4 6 8 8 8 3–10 12	£ s. d. 1 5 0 1 5 0 1 5 0 2 5 0 2 5 0 1 5 0	£ s. d. 125 0 0 125 0 0 15 12 6 10 0 0 40 10 0 27 0 0 125 0 0 75 12 6 543 15 0	Very good. Fair crop. Good results. Good (lined out). Fair growth. Very good.

Schedule A².—Three-year-old Trees.—Details of Trees grown at Eweburn Nursery, 1903-4. (Eighth Crop.)

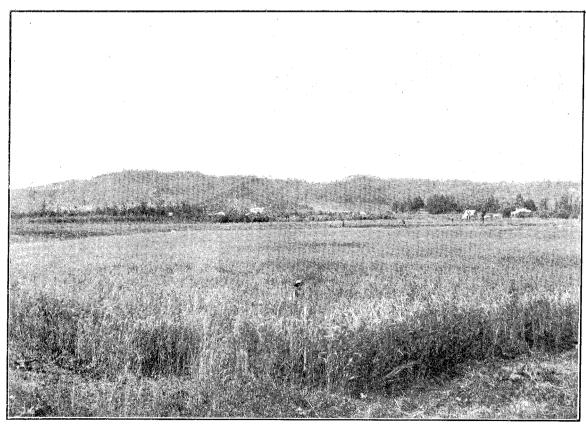
Name of Tree.	Number in Nursery Rows.	Height in Inches.	Value per Thousand	Total Value.	Remarks.
" ponderosa Larix Europæa	192,600 3,500 100,600 296,700	8-10 3-4 8-10	£ s. d. 3 0 0 3 0 0 3 0 0	£ s. d. 577 16 0 10 10 0 301 16 0	Very good. Fair results. Very satisfactory.

Schedule A³.—Trees transferred from Eweburn Nursery to Plantations, &c., 1905-6.

Where sent.	Name of Tree.		,	Number.	Value per Thousand.	Total	Val	ue.
Gimmerburn Reserve	Pinus Austriaca Larix Europæa Salix viminalis (cuttings)			79,600 37,800 3,525 8,175	£ s. d. 3 0 0 2 5 0 3 0 0 2 0 0	£ 238 85 10 16	1 11	d. 0 0 6
				129,100		350	15	6
Tapanui Nursery	Robinia rseudo-acacia Berberis Nepaulensis	•••		8,500 150	$\begin{array}{cccc} 1 & 10 & 0 \\ 2 & 10 & 0 \end{array}$	12 0	15 7	0 6
				8,650		13	2	6
Survey Paddock Plantation	Pinus ponderosa " " " Austriaca	•••	••	11,450 2,650 5,550	$\begin{array}{cccc} 2 & 5 & 0 \\ 3 & 0 & 0 \\ 2 & 5 & 0 \end{array}$	25 7 12	15 19 9	3 0 9
				19,650		46	4	0
Gimmerburn Reserve, as per c Tapanui Survey, as per details Survey Paddock Plantation, as	above	••	••	129,100 8,650 19,650		350 13 46	15 2 4	6 6 0
Totals		-;•		157,400		£410	2	0



CUT-OUT KAURI FOREST AT PUHIPUHI, AUCKLAND, BEING REPLANTED WITH TOTARA AND EUCALYPTI.



Oat-crop at Reatangata Nursery, Auckland, showing Result of Systematic Tillage on Poor Land.

Schedule B.—One-Year-old Trees.—Details of Trees grown at Tapanui Nursery, 1905-6. (Ninth Crop.)

Name of Tree.	Number in Seed-beds.	Height in Inches.	Amount of Seed sown.	Value per Thousand.	Total Value.	Remarks.
			Lb.	£ s. d.	£ s. d.	
Picea excelsa	. 147,000	3.	20	1 0 0	147 0 0	Excellent crop.
D 1	3,000	112161616161616161616161616161616161616	16	1 5 0	3 15 0	Germinated poorly.
T.	41,500	11	7	1 0 0	41 10 0)
Taniaia	00 500	11	20	1 0 0	98 10 0	Good crop.
nondovoca	70,000	11	14	1 0 0	70 0 0	1
	. 58,000	31	3	1 0 0	58 0 0	Vigorous growth.
T) (1 '	. 14,500	1 1	7	1 5 0	18 2 6	Good crop.
m	1,000	3 *	3	1 5 0	1 5 0	Strong plants.
T 01	. 750	2	1	1 5 0	0 18 9	,
" Murrayana	. 100	11	1/2	1 5 0	0 2 6	Very weak.
Larix Europæa	. 150,000	2-5	168	1 0 0	150 0 0	Strong plants; two-thirds damped off.
Fraxinus excelsior	. 10,000	3	4 sacks	1 0 0	10 0 0	Fair crop.
Acer pseudo-platanus	00,000	8	1 sack	0 10 0	43 0 0	0
Quercus pedunculata	. 22,000	6	1 "	1 0 0	22 0 0	Good crop.
Picea sitchensis	. 30,500	34	7	1 5 0	38 2 6	Germinated poorly.
Betula alba	. 500	2	10	1 0 0	0 10 0	. "
Cotoneaster Simmondsii .	. 1,000	3	3	1 5 0	1 5 0	
Pittosporum tenuifolium .	. 2,200	6	5	1 0 0	$2 \ 4 \ 0$	1
	. 75	6	2	1 10 0	0 2 3	1
	1,000	4	2	1 5 0	1 5 0	Strong healthy plants.
	3,000	2	2	1 5 0	3 15 0	
	. 1,000	$2\frac{1}{2}$	3	1 10 0	1 10 0	
Native trees	. 1,000	1-5	• •	1 10. 0	1 10 0)
Totals	742,625		••		714 7 6	

Schedule B¹.—Two-year-old Trees.—Details of Trees grown at Tapanui Nursery, 1904-5. (Eighth Crop.)

Name of Tree	Number in Seed-beds.		Height in Inches.	Value per Thousand.	Total Value.	Remarks.
Picea excelsa Pseudo-tsuga taxifolia Pinus Austriaca Laricio ponderosa muricata halepensis Larix Europæa Fraxinus Americanus Acer pseudo platanus Quercus pedunculata Picea sitchensis Laburnum vulgare Piptanthus Nepalensis Cotoneaster Simmondsii Totals	271,000 80,000 134,700 139,000 33,000 15,000 338,000 21,000 178,000 1,800 4,000 3,500 500	61,750 16,500 1,500 1,500	2 2 2 4 3 3 3 8 7 10 12 14 15 12 12 12 18 9	£ s. d. 1 5 0 1 10 0 1 5 0 1 10 0 1 5 0 1 10 0 2 5 0 1 10 0 1 5 0 1 5 0 1 5 0 1 5 0 1 10 0 1	£ s. d. 338 15 0 120 0 0 168 7 6 208 10 0 41 5 0 48 15 0 48 15 0 48 15 0 48 15 0 26 5 0 92 12 6 37 2 6 267 0 0 1 17 7 0 4 0 7 5 0 4 7 6 0 12 6 1,783 13 6	Fair growth. Small plants. Splendid plants. Medium growth. Very strong plants. Strong, even growth. Healthy plants. Vigorous plants. Small plants. Fair growth. Poor growth. Strong plants.

SCHEDULE B².—Three-year-old Trees.—Details of Trees grown at Tapanui Nursery, 1903-4. (Seventh Crop.)

Name of	Number in Nursery Lines.	Height in Inches.	p	lue er usand.	Total Value.	Remarks.			
Picea excelsa Pseudo-tsuga taxifolia Picea sitchensis Pinus Austriaca ponderosa ponderosa, var. I radiata strobus rigida halepensis Larix Europæa Betula alba Fraxinus excelsior Robinia pseudo-acacia Alnus glutinosa Juglans regia Acer saccharum Pittosporum tenuifolium Totals		niana		238,000 28,900 100 66,400 500 150 2,500 100 100 8,000 61,800 83,700 2,000 1,700 4,600 250	8 10 10 6 6 5 13 7 8 8 15 14 17 18 11 15 15	3 3 3 3 3 3 3 3 3 3 3 4 3 3 3	8. d. 0 0 0 5 0 0 5 0 0 5 0 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	£ s. d. 714 0 0 93 18 6 0 6 6 199 4 0 1 12 6 0 99 7 10 0 0 12 0 0 6 0 0 6 0 24 0 0 185 8 0 251 2 0 4 10 0 5 2 0 7 13 0 13 16 0 0 16 8	These trees have madexcellent growth, and nearly the total numb will be transferred plantations during the coming winter.

SCHEDULE B⁸.—Trees transferred from Tapanui Nursery to Plantations, Domains, &c., 1905-6.

Where sent.	Name of Tree.	_	Number.	Height in Inches.	warde ber	Total Value.	Remarks.
	Pinus Austriaca , ponderosa , Benthamiana		90,500 9,850 3,450	12 10 12	£ s. d. 3 0 0 3 0 0 3 5 0	£ s. d. 271 10 0 29 11 0 11 4 3	Excellent growth.
·	" strobus " rigida " radiata		3,150 750 6,075	9 10 11	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Good growth.
4.	Picea excelsa " sitchensis Pseudo-tsuga taxifolia		150,675 175 35,875	12 15 20	3 0 0 3 5 0 3 5 0	452 0 6 0 11 4 116 11 10	Fair growth.
Conical Hills Plan-	Larix Europæa Fraxinus excelsior Quercus pedunculata Acer pseudo-platanus	::	75,900 74,725 2,150 84,925	15 20 15 14	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	227 14 0 224 3 6 6 9 0 233 11 0	Vigorous growth. Fair results.
52451011	Betula alba Juglans regia Alnus glutinosa	•••	63,150 4,180 1,250	18 11 16	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	189 9 0 17 15 4 3 15 0	Round boundary. For firebreaks. On swampy ground.
	Pyrua aucuparia Acer saccharum Robinia pseudo-acacia Populus (var.)		445 525 6,975 450	24 16 15 20	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1 13 5 1 11 6 15 13 10 0 13 6	1
	Salix (var.) Laburnum vulgare	• •	200 7,625	20 20	$\begin{array}{ccc} 1 & 10 & 0 \\ 2 & 0 & 0 \end{array}$	0 6 0 15 5 0	Planted in swamps. Good growth.
	Quercus pedunculata		623,000 239,600		1 5 0	1,849 7 6 299 10 0	Acorns planted in situ
			862,600			2,148 17 6	
	Pinus Austriaca ponderosa		30,750 1,500 125 100 1,000 1,650	12 10 12 7 7 10	3 0 0 3 0 0 3 5 0 2 0 0 3 0 0 3 5 0	92 5 0 4 10 0 0 8 1 0 6 0 3 0 0 5 7 3	All those trees were used for replanting
Dusky Hill Planta- tion	Larix Europæa Fraxinus excelsior Quercus pedunculata Acer pseudo-platanus Betula alba Alnus glutinosa Trees and shrubs		10,000 9,100 9,250 4,300 100 2,000 200	15 18 17 14 16 15	3 0 0 3 0 0 3 0 0 2 15 0 3 0 0 3 0 0	30 0 0 27 6 0 27 15 0 11 16 6 0 6 0 6 0 0 0 12 0	purposes, with satisfactory results.
-	Quercus pedunculata		70,075 21,950	••	1 5 0	209 11 10 27 8 9	Acorns planted in situ
			92,025			237 0 7	
Hanmer Springs Plantation	Picea excelsa Larix Europæa Fraxinus excelsior Alnus glutinosa Robinia pseudo-acacia		10,000 600 6,000 200 725	6 13 12 13 12	3 0 0 3 0 0 1 5 0 3 0 0 1 15 0	30 0 0 1 16 0 7 10 0 0 12 0 1 5 4	For nursery and planta- tion purposes.
			17,525			41 3 4	
Conical Hills Plan- tation	As per details above		862,600			2,148 17 6	
tation Dusky Hill Planta- tion	,,		92,025			237 0 7	
Hanmer Springs Plantation	"		17,525		••	41 3 4	
ndustrial School, Burnham	Trees and shrubs	٠.	2,220	••	• •	4 8 0	
Courist Department, Queenstown	"		392	••	••	2 0 9	
Domain Board, Gore Fourist Department, Hanmer Springs			90 200	••	::	1 11 6 0 14 6	
Beautifying Associa- tion, Waikoikoi.		• •	325	••	••	2 0 0	
Rotorua Nursery	50 lb. Pinus Laricio			••	••	8 18 7	
Totals	••		975,377	••	••	$[2,446 \ 14 \ 9]$	

Schedule C.—One-year-old Trees.—Details of Trees grown at Rotorua Nursery, 1905-6 (Seventh Crop.)

Name of Tree	·.		Number in Seed-beds.	Height in Inches.	Amount of Seed sown.		alue per ousa		Total	Val	ue.	Remarks.
Larix Europæa Pinus Laricio ponderosa ponderosa, var. E Austriaca Murrayana Jeffreyii muricata Torreyana Eucalyptus amygdalina pauciflora Acacia melanoxylon Juglans nigra Sequoia sempervirens Juniperus Virginiana Totals	entham	iana 	2,500,000 1,800,000 800,000 54,000 180,000 20,000 2,500 130,000 120,000 40,000 800 5,000 4,619,400	1-6 2 2 2 2 1 2 6 3 6 6 6 12 2-4 1	Lb. 560 112 56 14 28 4 1 3 4 14 8 bush. 35 14	0 1 3 4	s. 0 0 0 0 5 0 5 5 0 5 5 0 0 10 0 0 0 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	130 20 0 20 3 65 60 40 2	s. 0 0 0 10 0 0 15 0 2 0 0 8 0 15	d. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Extraordinarily good. Good, even, and strong growth. Fair average. Good results. Poor germination; good plants. Good and even crop. Only fair results, owing to poor germination of seed.

Schedule C¹.—Two-year-old Trees.—Details of Trees grown at Rotorua Nursery, 1904-5. (Sixth Crop.)

Name of Tree.				Number in Seed- beds.	Height in Inches.	in per		Total V	alue.	Remarks.	
Larix Europæa Pinus Austriaca " Laricio " ponderosa, " ponderosa, var. " strovus " Jeffreyli " Lambertiana Pseudo-tsuga taxifolia Picea sitchensis Thuja gigantea Totals	Benthan	niana		1,300,000 200,000 260,000 55,000 22,000 12,000 3,000 1,200 200,000 50,000 12,000	8-18 4-8 3-6 6-8 4 3 6-8 8-12 6-8 6-8 9-15	£ s. d 1 5 0 1 5 0 1 5 0 1 5 0 1 5 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0	1,	£ s,625 0 0 325 0 68 15 0 4 10 1 16 300 0 75 0 24 0 0 7722 1	0 0 0 0 0 0 0	Very good crop. Strong and sturdy. Good and even. Fair average. Fair only. Very vigorous. Good; above average. Strong and healthy. Good; above average.	

Schedule C^2 .—Three-year-old Trees.—Details of Trees grown at Rotorua Nursery, 1903–4. (Fifth Crop.)

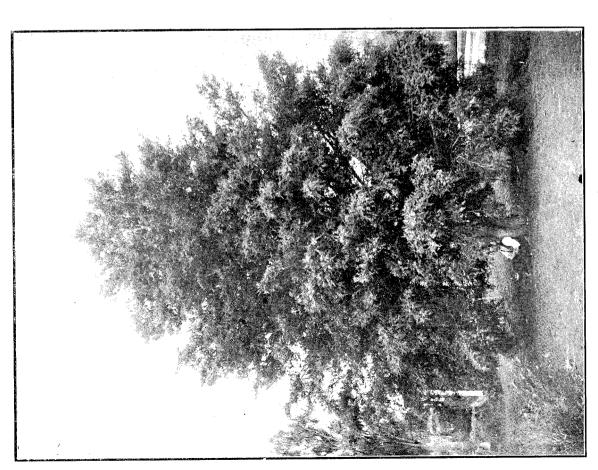
Name of Tree	Number in Nursery Lines.	Height in Inches.	in		Value per Thousand.		tal lue.		Remarks,			
Pinus Austriaca " strobus " ponderoso Larix Europæa Picea excelsa " sitchensis Pseudo-tsuga taxifolia Hikora ovata Robinia pseudo-acacia			280,000 17,000 1,000 700,000 50,000 50,000 30,000 2,500 16,000	5-8 6 4 9-16 12 8 9-16 6 18-36		0 0 0 0 0 5	d. 0 0 0 0 0 0 0	£ 840 51 3 2,100 150 162 97 13	0 0 10 10	d. 0 0 0 0 0 0 0	Good growth. Strong plants. Fair growth. Medium crop. Sturdy plants. Fairly good. Good crop. Satisfactory. Very strong growth.	
Liriodendron tulipiferum Totals	••		1,146,800	9-18		10	ŏ	3,442	1	0	Good.	

SCHEDULE C⁸.—Trees, &c., transferred from Rotorua Nursery to Forest Plantations, &c., 1905-6.

Where sent.	Name of Tree.	Number.	Height in Inches	Value per Thousand.	Total Value.	Remarks.
				£ s. d.		
Ĺ	Larix Europæa	750,150	12	3 0 0	[2,250 9 0]) .
	Pseudo-tsuga taxifolia	52,233	6	3 5 0	169 15 1	
	Pinus Torreyana	1,320	6	2 5 0	2 19 4	
	" contorta muricata	390 4,095	6	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
		25,500	6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	51 0 0	
	Acacia melanoxylon "Baileyana	150	6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 6 0	
	Robinia pseudo-acacia	100	10	1 0 0	0 2 0	All trees have done
	Juglans cineria	2,217	18	4 10 0	9 19 6	well at this planta-
Whakarewarewa	" nigra	3,330	12	5 0 0	16 13 0	tion during the
Plantation	, regia	4,370	10	4 15 0	20 15 1	ception of E. obli-
	Æsculus hippocastanum	.119	12	6 0 0	0 14 3	qua, E. Sieberiana,
İ	Eucalyptus amygdalina	137,970	4	1 10 0	206 19 1	E.haemastoma, and
	" gigantea	3,740	$\begin{array}{c c} 4 \\ 4 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix} 5 & 12 & 2 \\ 84 & 9 & 7 \end{bmatrix}$	E. gigantea, which
	" obliqua " Stuartiana	56,320 99,620	4	1 10 0	149 8 7	were badly frosted.
·	" aaria aaa	39,770	4	1 10 0	59 13 1	1.1
	" Sieberiana	5,640	4	1 10 0	8 9 2	
i i	" haemastoma	5,190	4	1 10 0	7 15 8	
	" Gunnii (Hooker)		4	1 10 0	5 2 7	ł
	" varieties	60	4	2 10 0	0 3 0	
(Ornamental shrubs	200	• • •	£5 per 100	10 0 0	j ·
		1,195,904			3,067 6 6	
(T	749 415	15	2 0 0	0.000 4.10	1
	Larix Europæa	743,415	15 6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix} 2,230 & 4 & 10 \\ 268 & 13 & 0 \end{bmatrix}$	
•	Pinus Austriaca	89,550	8	3 5 0	61 3 7	
	" ponderosa, var. Ben- thamiana	18,825	6	3 3 0	01 9 1	
. []		7,050	8	3 0 0	21 3 0	
	" ponderosa " Laricio	27,000	6	3 0 0	81 0 0	
	" strobus	37,525	6	3 0 0	112 11 6	
	" Coulterii	430	10	3 10 0	1 10 1	Have all done well.
1	" contorta	700	6	3 0 0	2 2 0	
1	" muricata	1,000	6	$2 \ 5 \ 0$	$2 \ 5 \ 0$	
·	" Torreyana	500	6	2 5 0	1 2 6	
Waiotapu Planta-	" excelsa	100	4	2 5 0	0 4 6	
tion	" Sylvestris	200	4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0, 9, 0	
	" Jeffreyii	18 375	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	Sequoia sempervirens Acacia melanoxylon	40	6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 1 7	Experimental; very
	Acacia melanoxylon	1		2 0 0	· · · · · · · · · · · · · · · · · · ·	satisfactory.
	Robinia pseudo-acacia	41,675	10	1 10 0	62 10 3	Slow; eaten by hares.
	Eucalyptus Gunnii (Hooker)		4	1 10 0	153 17 2	Good.
	" (Mueller)		4	1 10 0	51 19 0	Not very satisfactory.
	" Muellerii´	1,285	4	$2\ 10\ 0$	3 4 3	, ,
j	" coriacea	23,570	4	1 10 0	35 7 1	Fair.
[1	" urnigera	5,080	4	2 10 0	12 14 0	
i	" Stuartiana	28,280	4	1 10 0	42 8 4	Not very satisfactory.
Ų	" coccifera	1,425	4	2 10 0	3 11 3	Fair.
		1,165,253			3,151 2 8	
		1,100,200			3,151 2 8	
	Pinus muricata	25,000	6	2 5 0	56 5 0	For breakwinds.
Ruatangata Nursery	Eucalypti (varieties)	350	4	1 10 0		Experimental planting.
· '						
		25,350	1		56 15 6	
•						
Whakarewarewa	As per details above	1,195,904		••	3,067 6 6	
Plantation		1 105 050			9 151 9 9	
Waiotapu Plantation	,,	1,165,253	• • •		$\begin{bmatrix} 3,151 & 2 & 8 \\ 56 & 15 & 6 \end{bmatrix}$	
Ruatangata Nursery	Chaltan troop	25,350	••	£1 ner 100	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Acclimatisation	Shelter trees	250	• • •	£1 per 100	2 10 0	
Society, Tirau Native School, Taupo	Ornamental shrubs (vars.)	74		£5 per 100	3 14 0	
Tapanui Nursery	Catalpa speciosa	100	15	£2 10s. per		Experimental planting.
Tahama Hansorh	Catatha sheeron		.0	1,000		
Totals		2,386,931			6,281 13 8	



SPECIMEN OF RIMU AT POHUE, HAWKE'S BAY.



TOTARA-SAPLING, RUATANGATA NURSERY.

SCHEDULE D.—ONE-YEAR-OLD TREES.—Details of Trees grown at Starborough Nursery, 1905-6. (Fifth Crop.)

Name o	Number in Seed-beds.	Height in Inches.	Seed sown.	Value per Thousand	Total Value.	Remarks.		
Larix Europæa Pinus Murrayana Laricio ponderosa Austriaca ponderosa, var. strobus Torreyana Pseudo tsuga taxifolia Picea sitchensis	 namiana		400,000 1,200 300,000 40,000 50,000 25,000 2,500 1,000 2,000 3,500	4 to 8 1 to 1½ 1 to 2 2 to 3 1 to 2 2 to 3 1 to 2 2 to 4 1 to 2 ½ to 1	Lb. 168 pkt. 52 7 7 7 7 8 6	£ s. d. 1 0 0 1 5 0 1 0 0 1 0 0 1 0 0 1 5 0 1 5 0 1 5 0 1 5 0	£ s. d 400 0 0 1 10 0 300 0 0 40 0 0 50 0 0 31 5 0 2 10 0 1 5 0 2 10 0 4 7 6	Poor plants. Strong. Poor crop. Fair crop.
Robinia pseudo-acacia Totals	 ••		900,200	24 to 36	28	0 10 0	37 10 0 870 17 6	Strong.

Schedule D¹.—Two-Year-old Trees.—Details of Trees grown at Starborough Nursery, 1904-5. (Fourth Crop.)

Name of	Number in Seed-beds.	Number in Nursery Lines.	in Nursery in Inches		Value per Thousand.			ue.	Remarks.			
Pinus Austriaca ponderosa Larix Europæa Pseudo tsuga taxifolia Pinus ponderosa Laricio muricata Robinia pseudo-acacia Totals				40,000 12,500 52,500	200,000 25,000 2,000 60,000 7,500 19,000	6 to 9. 8 to 12 18 to 24 4 to 9 6 to 10 4 to 6 9 to 15 36 to 48	£ s. 1 5 1 5 2 5 2 10 2 5 2 5 2 5 1 10	d. 0 0 0 0 0 0	£ 50 15 450 62 5 132 16 28	0 . 0 17 10	d. 0 6 0 0 0 6 0	Healthy, well rooted plants Good. Very strong.

SCHEDULE D2.—THREE- AND FOUR-YEAR-OLD TREES.—Details of Trees grown at Starborough Nursery, 1903-4. (Second and Third Crops.)

	Vame of	Tree.			Number in Nursery Lines.	Height in Inches.	Value per Thousand.	Total Value.	Remarks.
Pseudo-tsuga taxifo Pinus strobus "Austriaca Berberis aristata	ia		••	•••	100,000 2,500 150,000 15,000 267,500	6 to 12 3 to 6 6 to 10 12 to 18	£ s. d. 3 5 0 3 0 0 3 0 0 1 0 0	£ s. d. 325 0 0 7 10 0 450 0 0 15 0 0	Strong, well-rooted plants.

Schedule D⁸.—Trees transferred from Starborough Nursery to Plantations, Nurseries, &c., 1905-6.

Where sent.	Name of Tree.	Number of Trees.	Value per Thousand.	Total Value.
Dumgree Plantation	Pinus Austriaca	156,500 21,500 67,500 16,250 17,000 2,400 74,450 2,650 3,000 2,800 1,200	£ s. d. 4 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 2 5 0 1 10 0	£ s. d. 626 0 0 64 10 0 202 10 0 48 15 0 51 0 0 7 4 0 223 7 0 8 12 3 4 10 0 6 6 0 1 16 0
Awatere Cemetery Trustees State Nursery, Ranfurly Government Biologist, Wellington	Berberis aristata	365,250 350 5,000 500	3 0 0 1 0 0 3 0 0	1,244 10 3 1 1 0 5 0 0 1 10 0
Rotorua Nursery	Total 35 tons chaff, at £2 per ton 15 tons hay, at £2 per ton 32½ lb. tree-seeds 5 tons chaff, at £2 per ton	371,100	 Total	1,252 1 3 70 0 0 30 0 0 17 7 6 10 0 0

Schedule E.—Details of One-Year-old Trees.—Details of trees grown at Hanmer Springs Nursery, 1905-6. (Fourth Crop.)

Name of Tree.	Number in Seed-beds.	Height in Inches.	Seed sown.	Value per Thousand.	Total Value.	Remarks.
Larix Europæa Pinus Laricio	250,000 350,000 38,000 75,000 25,000 12,000	11-5 11-2 2 2 2 1	140 140 42 4 14 7 2	£ s. d. 1 0 0 1 0 0 1 0 0 1 0 0 1 5 0 1 5 0	£ s. d. 250 0 0 350 0 0 38 0 0 75 0 0 31 5 0 15 0 0	Excellent plants. Very good crop. Strong. Nice crop.

Schedule E¹.—Two-year-old Trees.—Details of Trees grown at Hanmer Springs Nursery, 1904-5. (Third Crop.)

Name of Tre	e.	Number in Nursery Lines.	Number in Seed-beds.	Height in Inches.	Value per Thousand.	Total Value.	Remarks.
Larix Europæa Pinus Austriaca " Laricio " ponderosa " muricata Pseudo tsuga taxifolia Acer pseudo platanus Picea sitchensis Totals		99 000	60,000	9 4 4 4 8 5–12 10 4–9	£ s. d. 2 5 0 2 5 0 2 5 0 2 5 0 2 5 0 2 5 0 2 10 0 1 10 0 1 10 0	22 10 0 72 0 0 37 10 0 1 5 2	Strong plants. Very healthy stuff. Good plants. For road-lines. Have made good growth

Schedule E².—Trees transferred from other Nurseries, 1904-5.

Name of Tree.	Where from.	Number in Nursery Lines.	Height in Inches.	Value per Thousand.	Total Value.	Remarks.
Picea excelsa Pseudo-tsuga taxifolia Totals	Tapanui	105,000 19,000 124,000	5 –14 8	£ s. d. 3 0 0 3 5 0	£ s. d. 315 0 0 61 15 0 376 15 0	

Schedule E³.--Trees transferred to Hanmer Springs Plantation, 1905-6.

Name of Tree.		Where from,		Number.	Value per Thousand.	Total Value.	Remarks.
Pinus Austriaca Pinus ponderosa Larix Europæa Alnus glutinosa Betula alba]	Hanmer Springs		15,110 7,175 10,000 2,100 825 35,210	£ s. d. 1 5 0 1 5 0 2 5 0 4 0 0 3 0 0	£ s. d. 18 17 9 8 19 4 22 10 0 8 8 0 2 9 6	Have done well.
Quercus pedunculata		••		70,900	1 5 0	88 12 6	Planted in situ.
Picea excelsa Fraxinus excelsior Robinia pseudo acacia Alnus glutinosa Larix Europæa		Tapanui	To the second se	10,000 6,000 725 200 600	3 0 0 1 5 0 1 10 0 3 0 0 3 0 0	30, 0 0 7 10 0 1 1 9 0 12 0 1 16 0	Done fair—few dead All have done well; scarcely a death.
As per details above		Hanmer Planted in situ Tapanui	• • •	35,210 70,900 17,525	•	61 4 7 88 12 6 40 19 9	

SCHEDULE F.—ONE-YEAR-OLD TREES.—Details of Trees grown at Ruatangata Nursery, 1905-6. (Third Crop.)

Name.		Number in Seed-beds.	Height in Inches,	Seed Sown.	Value per Thousand.	Total Value.	Remarks.
Podocarpus totara Vitex lucens Pseudo-tsuga taxifolia Sequoia sempervirens gigantea Pittosporum crassifolium Fraxinus Americanas Eucalyptus corynocalyx leucoxylon marginata paniculata rostrata resinifera siderophloia obliqua Japanese trees and shru in variety		250,000 60,000 5,000 1,000 1,000 25,000 6,000 20,000 40,000 16,000 25,000 30,000	6 9 3 12 6 6 18 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Lb. 100 300 ½ 4 7 ½ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	£ s. d. 2 10 0 1 10 0 2 10 0 2 0 0 2 0 0 2 0 0 1 0 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0 0 10 0	£ s. d. 625 0 0 90 0 0 6 5 0 2 8 0 2 0 0 0 10 0 1 10 0 12 10 0 3 0 0 10 0 0 20 0 0 8 0 0 12 10 0 15 0 0 1 0 0	Even, sturdy, well-ripened wood; excellent results. Germinated evenly, strong plants. Remarkable growth. Average growth. Good strong plants. Good crop; excellent seed. Perfect weather favoured seedlings. Satisfactory.
Totals	• •	483,200	• •	••	••	811 13 0	

Schedule F^1 .—Two-year-old Trees.—Details of Trees grown at Ruatangata Nursery, 1904–5. (Second Crop.)

Name.	Number in Nursery Lines.	Height in Inches.		alue per ousa		Total	Valı	ıe.	Rem arks .	
		FO. 00 0			s.		£	8.		(Partially decimated by wire-
Podocarpus totara	• •	50,000	18	4	5	0	212		0	worm; balance good progress.
" "		80,000	4	1	10	0	120	0	0	Lined in under frames; suc-
" dacrydioides		20,000	4	1	10	0	30	0	0	
Alectryon excelsum		2,000	6	1	0	0	2	0	0	ceeding well.
Phyllocladus trichomanoides		4,000	3	2	0	0	8	0	0	Slow in growth.
Vitex lucens		3,000	18	- 3	10	0	10	10	0	Spendid growth.
Pinus maritima		10,000	18	2	5	0	22	10	0	Lined out, good; transferred from Rotorua.
Totals		169,000					405	10	0	

Schedule F².—Details of Trees transferred from Ruatangata Nursery to Puhipuhi Plantation, 1905-6.

Name of Tr	ee.	Number.	Value per Thousand.	Total Value.	Remarks.
Podocarpus totara dacrydioide Juglans nigra Eucalyptus corymbosa corynocalyx crebra leucoxylon marginata maculata panioulata resinifera rostrata siderophlois		 61,500 550 550 15,200 780 18,000 18,000 880 2,800 17,000 5,000 8,400 10,000	£ s. d. 4 5 0 8 0 0 9 0 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0 1 10 0	£ s. d. 261 7 6 1 13 0 1 13 0 22 16 0 1 3 4 27 0 0 1 6 4 4 4 0 25 10 0 7 10 0 12 12 0 15 0 0	Making slow growth, but in healthy state. Growing well. All these trees were mossed, an are growing well, with exceptio of E. cornyocalyx and E. corymbosa.
Totals		 158,660		408 15 2	

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