

APPENDICES.

APPENDIX I.—SHIPMENT AND FOREST DESCRIPTIONS.

SHIPMENT DESCRIPTION.

TREES COLLECTED FOR INVESTIGATIONAL PURPOSES.

Ship- ment No.	Species.	Quantity.	Age.	Total Height.	Diameter. B.H.	Locality.
		Cords.	Years.	Ft.	In.	
101	Corsican Pine (<i>Pinus laricio</i>) ..	1	23	57	7·7	Whakarewarewa.*
102	Austrian Pine (<i>Pinus austriaca</i>) ..	1	23	45	8·3	Whakarewarewa.*
103	European larch (<i>Larix europea</i>) ..	1	22	65	7·2	Whakarewarewa.*
104	Insignis-pine (<i>Pinus radiata</i>) ..	3	12	60	7·3	Whakarewarewa.*
105	Rimu (<i>Dacrydium cupressinum</i>) ..	2	..	..	12·0	Mamaku.†
105A	Rimu slabs ..	1	..	..	..	Mamaku.‡
106	Tawa (<i>Beilschmiedia tawa</i>) ..	3	..	..	10·0	Mamaku.†
		Cub. ft. I.B.				
111	Insignis pine (<i>Pinus radiata</i>) ..	927	30	90	18·0	Swanson.§
112	Tawa (<i>Beilschmiedia tawa</i>) ..	2,090	..	70	16·0	Mamaku.†

* See "Forest Description," below. † See "Forest Description" below. ‡ From G. A. Gamman and Co. operation. § See "Forest Description," page 51.

FOREST DESCRIPTION. (1926)

THE EXOTIC SOFTWOODS COLLECTED FOR PULPING TESTS.

Whakarewarewa.

Locality.—Whakarewarewa, Rotorua Forest Conservation Region.

Situation and Altitude.—Situation : Near Rotorua. Altitude : About 1,000 ft. above sea-level.

Climate.—Rainfall : Mean annual, 55·11 in. Temperature : Annual mean, 54·8° F. Sunshine : Mean, 2,055 hours.

Stand.—Block : 22. Compartments : 1, 2, 3. Areas : 132 acres, 108 acres, 305 acres 2 roods 16 perches. Species : *Pinus radiata*. Spacing : 6 ft. by 3 ft. Age : Eleven years. Density : Overstocked. Crown cover : Very complete. Average height : 48 ft. Average D.B.H. : 5·75 in. Stand per acre (to 3 in. top) : 5,462 cub. ft. (Total stand : 1—720,984 cub. ft ; 2—589,896 cub. ft ; 3—1,665,910 cub. ft.). Diameter growth : Five rings per inch. Height growth : 36 in. Remarks : Planted 3 ft. apart in rows and 6 ft. between the rows in order to suppress the heavy fern. Windfalls and double leaders common.

Block : 1. Compartment : 2. Area : 51 acres and 32 perches. Species : *P. austriaca*, *Sequoia sempervirens* (a few). Spacing : 4 ft. Age : Twenty-two years. Density : Overstocked. Crown cover : Very complete. Average height : *P. aust.*, 35 ft. ; *S. semp.*, 45 ft. Average D.B.H. : *P. aust.*, 6·5 in. ; *S. semp.*, 10 in. Stand per acre (to 3 in. top) : 3,744 cub. ft. (Total stand : 190,944 cub. ft.). Diameter growth : *P. aust.*, 8 rings per inch ; *S. semp.*, 3 rings per inch. Height growth : *P. aust.*, 18 in. ; *S. semp.*, 20 in. Soil : Pumice. Site : 1. Aspect : Level, but gentle slope to north-west.

Block : 2. Compartment : 1. Area : 22 acres. Species : *P. austriaca*, 66 per cent. ; *P. Laricio*, 34 per cent. Spacing : 4 ft. Age : Twenty-two years. Density : Overstocked. Crown cover : Very complete. Average height : 35 ft. Average D.B.H. : 6 in. Stand per acre (to 3 in. top) : 5,586 cub. ft. (Total stand, 122,892 cub. ft.). Diameter growth : Seven rings per inch. Height growth : 18 in. Soil : Pumice. Site : 1. Aspect : Level, but gentle slope to north-west.

Block : 4. Compartment : 1. Area : 66 acres 1 rood 24 perches. Species : *Larix europea*, *Pseudotsuga taxifolia*. Spacing : 4 ft. Age : Twenty-one years. Density : Overstocked. Crown cover : Very complete. Average height : 50 ft. Average D.B.H. : 5·6 in. Stand per acre (to 3 in. top) : Larch, 1,411 cub. ft. ; Douglas Fir, 367 cub. ft. (Total stand : Larch, 128,591 cub. ft. ; Douglas Fir, 24,313 cub. ft.). Diameter growth : Larch, nine rings per inch ; Douglas, three rings per inch. Height growth : *L.*, 20 in. ; *D.*, 25 in. Soil : Pumice. Site : 1. Aspect : North-west. Remarks : Larch thinned. Douglas good on strip 2 chains wide on south boundary, rest poor and small. Sample plot No. 2.

TAWA AND RIMU COLLECTED FOR PULPING TESTS.

Mamaku.

Locality.—Mamaku, Rotorua Forest Conservation Region.

Situation and Altitude.—Situation : Six miles from Mamaku Railway-station. Altitude : About 2,000 ft. above sea-level.