1911. NEW ZEALAND.

DEPARTMENT OF LANDS: STATE AFFORESTATION IN NEW ZEALAND

(REPORT ON).

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

TABLE OF CONTENTS.

Part I.—State Afforesta 1911		New Zea	LANI	D,	PART II.—REVIEW OF YEAR'S OPERATIONS.	Page
	•		1	Page	General Remarks	. 29
Reasons for Afforestation					Summary of Operations in the Nurseries	. 31
Demand for Timber				3		32
Inauguration of Afforestation				3	Summary of Operations in the Flantacions	
Appendix A (Forest-tree Growing in the North Island).				Appendix A (Tree-growing Operations in the North		
Nursery and Plantation Work	in Rotoru	a District	b	6	Island, 1910-11).	
Raising Trees from Seed Lin ng-out				7	Counting the Trees	. 33
Lining-out				8		. 33 . 33
Sending Trees to Plantations				9	"Kanana" Convoluzione Comp	
Plantation work				10		
Liantation work	• •	••	• •		Thinning Plantations	. 34
Amounting P / Forest tree Consuit	a in the S	Pouth Isla	md\		Survey-work	. 35
Appendix B (Forest-tree Growin	-		nu j.		Forestry Literature	35
Introductory Remarks				11	Proposals for 1911–12	. 35
Tree-seeds				11	Conclusion Rotorua Nursery Whakarewarewa Plantation Waiotapu Plantation	. 35
Preparation of Ground for See	d-sowing			12	Rotorua Nursery	. 30
Seed-sowing				12	Whakarewarewa Plantation	. 40
Tending Seed heds	• •	• • • • • • • • • • • • • • • • • • • •		14	Waiotapu Plantation	. 45
Wronghing	• •	• •		14	Ruatangata Nursery	. 50
Tifting and Tining out coulling	•••	• •	٠.	14		. 51
Litting and Lining-out seeding	zs	• •			Tumpum Timutation	. 91
Tending Transplanted Trees	c	• •	• •	16		
Seed-sowing 12 Tending Seed-beds 14 Wrenching Lifting and Lining-out seedlings Tending Transplanted Trees Lifting and bundling Trees for Transference					Appendix B (Tree-growing Operations in the Sout)	l,
Transport of Trees		• •		17	Island, 1910-11.)	
Transport of Trees Fencing Areas acquired for Tr	ee-plantin	g		17	•	
Extermination of Ground-gam	e			17		. 53
Formation of Fire-breaks Clearing and Draining Pitting for Tree-planting				18	Output of Trees, and Acreage planted	. 53
Clearing and Draining				18	Trees raised and Expenditure incurred	. 53
Pitting for Tree-planting				19	D: (D: ,	. 54
Tree-planting Methods and Climatic Influences 20				n · · · · • · · · · · · · · · · · · · ·	. 54	
Planting systems adopted	1110010 1111	ruchoes		20	C	. 54
Planting-systems adopted Labour and Supervision	• •	• •		21	TO 1 1	. 54
Labour and Supervision	• •	• •		22		
Summary of Costs	• •		• •	ZZ		~~
						. 55
Appendix C (Schedules of T	rees in P	lantations).		General	. 55
Number and Variety of Trees p	lanted in	North Isl	and	23		. 55
Number and Variety of Trees				24	Dusky Hill Plantation, Otago	. 59
Number and variety of frees h	named in	Double 101	arra	~ .	Conical Hills Plantation, Otago	. 61
Ammondia D (Forest Discusses	and their	Polation			Waitahuna Plantation, Otago	. 63
Appendix D (Forest Diseases		netation	1 10			. 64
Afforestatio	n $\}$.			٥- ا	37 3 73	. 67
Introduction The Damage caused by Diseas	• •		• •	25		. 68
The Damage caused by Diseas	e		• •	26		. 69
Disease-control in Natural and		Forests		26		=0
Present Condition of the Plant	ations			26	Hammer springs Transacion, Canterbury	. 72
Rotorua Nursery				26		
Tapanui Nursery				27		
The Diseases of the Planted T	rees			27	W P	
Future Prospects				28	MAPS TO ACCOMPANY REPORT (BOUND AT END O	F
Control-measures	••	• •		28	Report).	
Future Prospects Control-measures Line of Action to adopt	• •	• •		28	Showing Whakarewarewa Nursery and Plantation	n.
Asknowledgements	• •	• •		29	Showing Waiotapu Plantation,	•••
Acknowledgements	• •	• •	• •	217	onowing maioraba riamanon.	
1—С. 1в.						