

1907.
NEW ZEALAND.

REPORT ON A BOTANICAL SURVEY OF KAPITI ISLAND
BY L. COCKAYNE, PH.D.

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

SIR,—
Department of Lands, Wellington, 8th May, 1907.
I have the honour to submit herewith report on a botanical survey of Kapiti Island by Dr. Cockayne, of Christchurch, undertaken in pursuance of your instructions.
The report is a very complete one, and is well illustrated by photographs taken by the writer. An accompanying plan also tends to make the report absolutely clear. It adds very largely to our knowledge of the New Zealand fauna and flora, and from all points of view is one of the most interesting and valuable publications on the subject that has yet been issued in this colony.
I have, &c.,
WILLIAM C. KENSINGTON, Under-Secretary.
The Hon. Robert McNab, Minister of Lands.

REPORT ON A BOTANICAL SURVEY OF KAPITI ISLAND, BY L. COCKAYNE, PH.D.

INDEX TO CONTENTS.

	PAGE.		PAGE.
1. General remarks	2	(b.) Manuka heath	10
2. Physical geography	2	(c.) Xerophytic scrub	10
3. Climate	3	C. The coastal formations—	
4. Introduced plants and animals	3	(a.) General remarks	11
5. The plant formations.. ..	4	(b.) The strand	11
A. The forest—		(c.) Shingle flats, terraces, &c.	11
(a.) General remarks	4	(d.) Rock vegetation	12
(b.) Its distribution	4	(e.) Salt meadow, lagoon, and pond	12
(c.) The physiognomy of the forest	5	(f.) Tokomapuna Island	13
(d.) The leading physiognomic plants and their life-forms	6	D. Meadow formations	13
(e.) The ecological factors	7	E. Rock formations	13
(f.) Distribution and grouping of the species.. ..	8	6. Affinities of the Kapiti flora and its history	14
(g.) The ecology of the plants	9	7. Kapiti as a plant and animal sanctuary.. ..	15
B. The shrub formations—		8. List of pteridophytes and spermaphytes	16
(a.) Coastal heath	10	9. Provisional list of introduced plants	22