

The Native Flora of Motukokako Reserve (Raglan Harbour,
West Coast of North Island)

M. C. GUDEX

By

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THIS reserve, with an area of slightly over 100 acres, has the form of a headland running roughly S.E. into Raglan (Whaingaroa) Harbour. Most of it is hilly, with a maximum height of 315ft, but there are some little gullies and amphitheatres, and also bogs caused by landslides. Some of the spurs have been truncated by the sea, with the formation of cliffs.

The soil is moderately fertile, and lies upon arenaceous limestones of the Te Kuiti series.

Presumably the rainfall is almost the same as that at Raglan, 1½ miles away, namely, 45.5in per annum.

A man who has known this area well for over sixty years, from the time he was 12 years of age, says there was no heavy bush there at that time, and no sign of previous felling.

Until three years ago this reserve was part of a farm, but a fence has been erected across the headland to join the two arms of the harbour, thus forming roughly a triangle. Previously the bush on the reserve was open to all kinds of farm stock and to goats, and still these cause some trouble, being able to go round the ends of the fence at low tide.

There has been considerable regeneration since the area was enclosed. About 160 species of native plants have been found growing naturally in the reserve, and additional species such as kauri, kumarahou and pohutukawa have been planted there.

The chief trees are cabbage-tree (*Cordyline australis*), kowhai (*Sophora microphylla*), kanuka (*Leptospermum ericoides*), kohekohe (*Dysoxylum spectabile*), puriri (*Vitex lucens*), rewarewa (*Knightia excelsa*), pigeonwood (*Hedy-carya arborea*), karaka (*Corynocarpus laevigatus*), akeake (*Dodonaea viscosa*).

SPECIAL FEATURES

1. The presence of coastal plants such as puriri (*Vitex lucens*), ngaio (*Myoporum laetum*), *Olearia albida*, *Cassinia retorta*, karaka (*Corynocarpus laevigatus*), and sea-shore plants including *Scirpus nodosus*, *Juncus maritimus*, *Selliera radicans*, *Euphorbia glauca*, *Samolus repens*.

2. The remarkable profusion of *Cordyline australis*, *Sophora microphylla*, *Angelica rosaefolia* and *Oplismenus undulatifolius*.

NOMENCLATURE

I have adopted the nomenclature of Allan's "Flora of New Zealand" Volume I, and of Cheeseman's "Manual of the New Zealand Flora", 1925 edition, for most monocotyledons, but I have followed E. D. Hatch's naming of the orchids and V. J. Cook's naming of the sedges and rushes. In every case I have quoted an authority.

ACKNOWLEDGMENTS

I wish to thank Mr V. J. Cook for his identifications of sedges for me; Mr C. M. Smith for advice; Mr A. C. A. Caldwell for advice and help in the field, and many friends who brought down to me specimens from places that were not accessible to me.

THE SPECIES

The abbreviations following the names have these meanings: A, abundant; C, common; O, occasional; R, rare.

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- PSILOTAECIAE
Tmesipteris tannensis Bernh.—R
- LYCOPODIACEAE
Lycopodium billardieri Spring—R
- SCHIZAEACEAE
Lygodium articulatum A. Rich.—O
- HYMENOPHYLLACEAE
Hymenophyllum sanguinolentum (Forst. f.) Swartz—R
— *revolutum* Col.—O
Trichomanes venosum R. Br.—R
— ? *endlicherianum* Presl.—R
— *reniforme* Forst. f.—R
- DICKSONIACEAE
Dicksonia squarrosa (Forst. f.) Swartz—C
- CYATHEACEAE
Cyathea dealbata (Forst. f.) Swartz—C
— *medullaris* (Forst. f.) Swartz—O
— *cunninghamii* Hook. f. in Hook.—R
- POLYPODIACEAE
Pyrrosia serpens (Forst. f.) Ching—C
Phymatodes scandens (Forst. f.) Presl.—O
— *diversifolium* (Willd.) Pic. Ser.—C
- THELYPTERIDACEAE
Thelypteris pennigera (Forst. f.) Allan—O
- LINDSAEACEAE
Lindsaea linearis Swartz—O
— *trichomanoides* Dryand.—O
- ADIANTACEAE
Adiantum cunninghamii Hook.—O
Pellaea rotundifolia (Forst. f.) Hook.—R
- PODOCARPACEAE
Podocarpus dacrydioides A. Rich.—O
— *spicatus* R. Br. ex Mirbel—O
— *ferrugineus* G. Benn. ex D. Don—O
— *totara* G. Benn. ex D. Don—R
— *hallii* Kirk—O
Dacrydium cupressinum Lamb.—O
Phyllocladus trichomanoides D. Don in Lamb.—O
- PANDANACEAE
Freycinetia banksii A. Cunn.—R
- GRAMINEAE
Microlaena stipoides R.Br.—O
Oplismenus undulatifolius Beauv.—A
Arundo kakaho A. Rich.—O
Poa anceps Forst. f.—O
- CYPERACEAE
Scirpus nodosus Rottb.—C
Mariscus ustulatus C. B. Clarke—A
Gahnia setifolia Hook. f.—A
— *lacera* Steud.—O
Carex geminata Schkuhr—A
— *lucida* Boott—C
— *dissita* Sol. ex Hook. f. var. *ochrosaccus* Cheesem.—O
— *virgata* Sol. ex Hook. f.—O
Uncinia riparia R. Br.—C
- PALMAE
Rhopalostylis sapida Wendl. & Drude—O
- RESTIACEAE
Hypolaena lateriflora Benth.—O
- JUNCACEAE
Juncus vaginatus R. Br.—O
— *polyanthemus* Buchenau—C
— *maritimus* Lam. var. *australiensis* Buchenau—O
— *prismatocarpus* R. Br.—O
— *planifolius* R. Br.—O
- LILIACEAE
Ripogonum scandens J. R. & G. Forst.—O
Cordyline banksii Hook. f.—O
— *australis* Hook. f.—A
Astelia solandri A. Cunn.—O
Phormium tenax Forst.—O
Collospermum hastatum (Col.) Skottsberg—C
Dianella intermedia Endl.—O
- ORCHIDACEAE
Dendrobium cunninghamii Lindl.—R
Earina mucronata Lindl.—O
— *autumnalis* Hook. f.—R
Sarcochilus adversus Hook. f.—O
Pterostylis banksii R. Br. ex A. Cunn.—O
Acianthus fornicatus (R.Br.) var. *sinclairii* (Hook. f.) Hatch—R
Corybas macranthus (Hook. f.) Reichb.
- DAVALLIACEAE
Arthropteris tenella (Forst. f.) Smith in Hook. f.—O
- PTERIDACEAE
Paesia scaberula (A. Rich.) Kuhn—A
Histiopteris incisa (Thunb.) J. Smith—O
Pteridium aquilinum (L.) Kuhn var. — *esculentum* (Forst. f.) Kuhn—C
Pteris tremula R. Br.—C
— *macilentata* A. Rich.—O
- ASPLENIACEAE
Asplenium lucidum Forst. f.—O
— *falcatum* Lam.—O
— *bulbiferum* Forst. f.—O
— *flaccidum* Forst. f.—O
- BLECHNACEAE
Doodia media R.Br.—C
Blechnum filiforme (A. Cunn.) Ettingshausen—C
— *capense* (L.) Schlecht.—O
— *discolor* (Forst. f.) Keys.—R
— *lanceolatum* (R. Br.) Sturm—O
- DRYOPTERIDACEAE
Polystichum vestitum (Forst. f.) Presl.—O
— *richardii* (Hook.) J. Smith—O
Rumohra adiantiformis (Forst. f.) Ching—R
- ATHYRIACEAE
Athyrium australe (R. Br.) Presl.—O
f. var. *macranthus*
Pterostylis banksii R. Br.—R
— *trullifolia* Hook. f. var. *gracilis* Cheesem.—O
- LAURACEAE
Beilschmiedia tawa (A. Cunn.) Benth. et Hook. f. ex Kirk—O
Litsea calicaris (A. Cunn.) Benth. et Hook. f. ex Kirk—O
- MONIMIACEAE
Hedycarya arborea J. R. et G. Forst.—O
Laurelia novae-zelandiae A. Cunn.—O
- RANUNCULACEAE
Ranunculus hirtus Banks et Sol. ex DC.—O
Clematis paniculata Gmel.—R
- PIPERACEAE
Macropiper excelsum (Forst. f.) Miq.—C
Peperomia urvilleana A. Rich.—O
- VIOLACEAE
Meliclytus ramiflorus J. R. et G. Forst.—C
- DROSERACEAE
Drosera auriculata Backh. ex Planch.—O
- POLYGONACEAE
Muehlenbeckia australis (Forst. f.) Meissn.—C
— *complexa* (A. Cunn.) Meissn.—O
- ONALIDACEAE
Oxalis corniculata (A. Cunn.) Hook. f.—O
- HALORAGACEAE
Haloragis erecta (Banks ex Murr.)—Eichl.—O
— *procumbens* Cheesem.—O
- ONAGRACEAE
Epilobium rotundifolium Forst. f.—O
Fuchsia excorticata (J. R. et G. Forst.) Linn. f.—R
- PROTEACEAE
Knightia excelsa R. Br.—C
- CORIARIACEAE
Coriaria arborea Lindsay—O
- PASSIFLORACEAE
Tetrapathaea tetrandra (Sol.) Cheesem.—O
- MYRTACEAE
Leptospermum scoparium J. R. et G. Forst.—A
— *ericoides* A. Rich.—A
Metrosideros diffusa (Forst. f.) Smith—O
— *colensoi* Hook. f.—O
Lophomyrtus bullata (Sol. ex A. Cunn.) Burret—C

- ELAEOCARPACEAE
Elaeocarpus dentatus (J. R. et G. Forst.)
Vahl.—O
- EUPHORBIACEAE
Euphorbia glauca Forst. f.—O
- CUNONIACEAE
Weinmannia racemosa Linn. f.—O
- ESCALLONIACEAE
Carpodetus serratus J. R. et G. Forst.—O
- ROSACEAE
Rubus australis Forst. f.—O
Acaena anserinifolia (J. R. et G. Forst.)
Druce—O
- PAPILIONACEAE
Sophora microphylla Ait.—A
- MORACEAE
Paratrophis microphylla (Raoul) Ckn.—
O
- URTICACEAE
Elatostema rugosum A. Cunn.—O
- CORYNOCARPACEAE
Corynocarpus laevigatus J. R. et G.
Forst.—A
- SANTALACEAE
Mida salicifolia A. Cunn.—O
- RHAMNACEAE
Pomaderris phyllicifolia Lodd. ex Link.—
R
- RUTACEAE
Melicope ternata J. R. et G. Forst.—R
- MELIACEAE
Dysoxylum spectabile (Forst. f.) Hook.
f.—C
- SAPINDACEAE
Alectryon excelsus Gaertn.—O
Dodonaea viscosa Jacquin—O
- ARALIACEAE
Schefflera digitata J. R. et G. Forst.—O
Neopanax arboreum (Murr.) Allan—O
Pseudopanax crassifolium (Sol. ex A.
Cunn.) C. Koch—O
- CORNACEAE
Griselinia lucida Forst. f.—O
- UMBELLIFERAE
Hydrocotyle spp?—O
Centella uniflora (Col.) Nannf.—C
Daucus glochidiatus (Labill.) Fisch.,
Mey. et Lallemant—O
Angelica rosaefolia Hook.—A
- EPACRIDACEAE
Cyathodes fasciculata (Forst. f.) Allan
—O
- MYRSINACEAE
Myrsine australis (A. Rich.) Allan—O
- LOGANIACEAE
Geniostoma ligustrifolium A. Cunn.—O
- APOCYNACEAE
Parsonsia heterophylla A. Cunn.—O
capsularis (Forst. f.) R. Br.—O
- RUBIACEAE
Coprosma parviflora Hook. f.—R
— *tenuicaulis* Hook. f.—O
— *arborea* Kirk—O
— *robusta* Raoul—C
Nertera dichondraefolia (A. Cunn.)
Hook. f.—O
Galium propinquum A. Cunn.—O
- COMPOSITAE
Lagenophora pumila (Forst. f.)
Cheesem.—O
Olearia albida Hook. f.—O
— *furfuracea* (A. Rich.) Hook. f.—O
— *rani* (A. Cunn.) Druce—C
Cassinia retorta A. Cunn. ex DC.—O
Brachyglottis repanda J. R. et G. Forst.
—O
- PRIMULACEAE
Samolus repens (J. R. et G. Forst.)
Pers.—R
- CAMPANULACEAE
Wahlenbergia gracilis (Forst. f.) Schrad.
—O
- GOODENIACEAE
Selliera radicans Cav.—R
- LOBELIACEAE
Pratia angulata (Forst. f.) Hook. f.—O
- CONVOLVULACEAE
Calystegia sepium (L.) R. Br.—O
— *tuguriorum* (Forst. f.) R. Br. ex
Hook. f.—C
- GESNERIACEAE
Rhabdothermus solandri A. Cunn.—O
- MYOPORACEAE
Myoporum laetum Forst. f.—O
- VERBENACEAE
Vitex lucens Kirk—C

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