

A LIST OF PTERIDOPHYTES OF THE ANNE, HENRY, AND
ADA VALLEYS, NORTH CANTERBURY, NEW ZEALAND.

J. R. Rolfe.

The Anne, Henry and Ada valleys, now part of the St. James Walkway, include a range of vegetation types typical of the North Canterbury high country. These comprise the tussock /exotic grasslands of the valleys and lower hills, large tracts of Discaria toumatou, some areas of Chionochloa rubra bog, and Nothofagus forest. There is the characteristic altitudinal succession of communities through sub-alpine shrub and herb communities, to bare rock communities, to bare rock and the nival zone.

All areas are accessible to stock - principally cattle and horses. These are relatively few in number, and rarely move higher than the lower fringes of the Nothofagus forest. A few sheep inhabit the slopes above the forest.

Most of the taxa found, are as would be expected in this region. A noteworthy find was that of Asplenium hookerianum. The specimen collected was growing in a clump completely interlaced with a plant of A. richardii. On first inspection, the plants were thought to be one remarkably dimorphic specimen, but the two distinct plants were later separated. Such a close association between these taxa is uncommon (D.R. Given pers comm.). Although these plants were growing in close proximity, there was no evidence of hybridisation between the two.

29 taxa from 10 genera have been recorded. Not all taxa noted were collected. All specimens collected are retained in the author's personal herbarium.

LIST OF PTERIDOPHYTES.

The arrangement of pteridophytes is based on the classification of Allan (1961), incorporating subsequent

nomenclatural amendments used in CHR.

The approximate altitude and locality is given for each specimen that has been collected.

- Lycopodium australianum* (Herter) Allan. c923m, Anne valley; c1,540m, Philosopher's Knob.
- L. fastigiatum* R. Br. c1,540m Philosopher's Knob.
- L. scariosum* Forst. f. c1,010m, trib. of Anne R.
- L. varium* R. Br.
- Hymenophyllum demissum* (Forst. f.) Sw. c915m, Anne R.
- H. multificum* (Forst. f.) Sw. c790m, Henry Valley.
- H. peltatum* (Poir.) Desv. c955m, Anne Valley.
- H. rarum* R. Br. small specimens, underside large boulder, Thurso Strm.
- H. villosum* Col. c790m, Henry valley; c923m, Anne R.
- Grammitis billardieri* Willd. c954m, Thurso Strm.
- G. givenii* Parris c1,470m, near Mt. Jervois.
- G. magellanica* Desv. spp. nothofageti Parris c800m, Christopher R.
- G. patagonica* (C. Chr.) Parris c920m, Anne R; c915m, Anne R.
- G. poeppigiana* (Mett.) Pic. Ser. c790m, Henry Valley; c1,540m, Philosopher's Knob.
- Hypolepis millefolium* Hook. clearings and margins of Nothofagus forest.
- Pteridium esculentum* (Forst. f.) Nakai open grassland.
- Histiopteris incisa* (Thunb.) J. Smith clearings and margins of Nothofagus forest: in association with *Hypolepis millefolium*.
- Asplenium flabellifolium* Cav.
- A. hookerianum* Col. c1,540m, trib of Anne R.
- A. terrestre* Brownsey ssp. *terrestre* c780m, Ada Valley.
- A. richardii* Hook. f, c790m, Henry R.; c1,050m, trib. of Anne R.
- A. trichomanes* L. c1,077m, trib. of Anne R.
- Blechnum fluviatile* (R. Br.) Salom. c955m, trib. of Anne R.

- B. "latifolia" c953m, trib. of Ada R.
 B. penna-marina (Poir.) Kuhn c920m, trib. of Anne R.
 B. procerum sensu. lato. c1,015m, trib. of Anne R.
 Polystichum cystostegia (Hook.) Cheesem. c1,540m,
 Philosopher's Knob.
 P. vestitum (Forst. f.) Presl
 Cystopteris fragilis (L.) Bernh. c800m, Henry Valley.
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THE BOTANY OF AUCKLAND. A BOOK FOR ALL SEASONS.
 By Lucy M. Cranwell. Published by the Auckland
 Institute and War Memorial Museum. March, 1981.
 Price \$6.25.

Eric J. Godley

This book is beautifully written and attractively produced. It tells the story of the native plants which have survived within and around the most densely populated part of New Zealand. Although Grafton Gully has been disembowelled by a motorway, and swamps drained, lava-fields encroached upon and volcanic cones quarried, there is still much to be seen within city and suburb. On the shores of Waitemata and Manukau, not far from the centre of Auckland city, are small and valuable bush and tidal reserves. Further afield, the two ranges in the region, Waitakere and Hunua still retain some of their earlier glory. The exposed west coast contrasts with the sheltered east with its mangrove estuaries; and further eastwards lie the small islands of the inner gulf, and beyond them again the beckoning peak of Te Moehau on the Coromandel Peninsula. It is indeed a most rich and diverse region which Dr Cranwell has described, mainly in a radius no more than 60 km from Queen Street. The vascular plants listed in an appendix number about 650, and there are some 240 seaweeds, green, brown, and red.