

scree material and are covered with moss. In this moss grow *Myosotis forsteri*, *Helichrysum bellidiodes*, *Epilobium glabellum*, *E.* sp. (unnamed—illustrated in Bulletin No. 26), and *Viola cunninghamii*. Steep fine scree at the base of this cliff supports a mass of *Coriaria pottsiana*, with *Dracophyllum adamsii* and *Coprosma parviflora* growing through it. *Olearia ilicifolia* is also present.

The forests below the scree are mostly beech, with a little rimu and matai flanking the Mangaokura Gorge. Cedar appears to be absent from this side of the mountain; further south, however, it occurs on the crests of ridges. The Mangaokura Stream is difficult to negotiate: many bluffs overhanging deep pools or rapids have to be climbed round or by-passed. A few trees of *Pittosporum ellipticum* were seen in the gorge, and *Cotula squalida* and *Gnaphalium keriense* thrive on the moist rocky banks. The lower mixed forest flanking the Ruatahunga Stream is eaten out by cattle, but no damage is evident above 2500 feet. Pig rooting is seen where the soil is dry and pumacious, especially on spurs where rooting may extend to 4000 feet. Regeneration is good: unlike a lot of the neighbouring ranges cedar is holding its own, and many seedlings are present. Toatoa (*Phyllocladus glaucus*) is uncommon and likely to die out: only a few seedlings and two mature trees were seen. Opossum damage is mostly near the Ruatahunga Stream; no traces of opossum were seen above 3500 feet. Deer are, as yet, absent from this area.

Plant Distribution Records (3)

A. P. Druce, Wellington

As in previous lists (Bulletins 26 and 27), the records have been placed in alphabetical order for each Botanical District. An asterisk indicates that the species is recorded from the North Island for the first time.

WELLINGTON BOTANICAL DISTRICT

- Arthropodium cirrhatum* (Forst. f.) R. Br. Wellington Coast: small gully between mouth of the Orongorongo R. and mouth of the Wainuiomata R., A. D. Beddie, L. B. Moore, A.P.D.
Asplenium anomodum Col. Eastern Wairarapa Hills: Kourarau V., limestone cliff, 1500 feet, A.P.D.
Carex cirrhosa Berggr. Western shore of Lake Wairarapa, A.P.D.

VOLCANIC PLATEAU BOTANICAL DISTRICT

- Hebe parviflora* (Vahl.) Ckn. et Allan. N.W. base of Mt. Tongariro, forest margins, 3000 feet, A.P.D.

- Libertia peregrinans* Ckn. et Allan. Near Waiouru, stream-banks, 2600 feet, A.P.D.
Luzula campestris var. *floribunda* Buchen. Ruapehu, 5000 feet, P. J. Harrigan!
Utricularia novae-zealandiae Hook. f. Base of the central volcanoes, bog, A.P.D.

EGMONT BOTANICAL DISTRICT

- Agrostis perennans* (Walt.) Tuck. "The Swamp" (between Mt. Egmont and Pauakai Ra.), 3000 feet, B. G. Hamlin, A.P.D. (*A. parviflora*).
Carex coriacea Hamlin. "The Swamp", river-banks, 3000 feet, B. G. Hamlin, A.P.D. (*C. ternaria* var. *pallida*).
Cockaynea gracilis (Hook. f.) Zotov. "The Swamp", river-banks, 3000 feet, B. G. Hamlin, A.P.D. (*Asperella*).
Coprosma parviflora var. *dumosa* Cheesem. "The Swamp", 3000 feet, B. G. Hamlin, A.P.D.
C. rugosa Cheesem. "The Swamp", river-banks, 3000 feet, A.P.D. (uncommon).
Danthonia rigida Raoul. Mt. Egmont, Pouakai Ra., and "The Swamp", 2800-5500 feet, B. G. Hamlin, A.P.D. (*D. raoulii* var. "rubra").
Epilobium cockayneianum Petrie. "The Swamp" 3000 feet, B. G. Hamlin, A.P.D.
E. pedunculare var. *viride* Ckn. "The Swamp", river-banks, 3000 feet, A.P.D.
Festuca novae-zealandiae (Hack.) Ckn. "The Swamp", river-banks, 3000 feet, B. G. Hamlin, A.P.D. (uncommon).
Geum leiospermum Petrie. "The Swamp", river-banks, 3000 feet, B. G. Hamlin, A.P.D.
Gnaphalium paludosum Petrie. "The Swamp", 3000 feet, B. G. Hamlin, A.P.D.
G. traversii Hook. f. "The Swamp", 3000 feet, B. G. Hamlin, A.P.D.
Hymenantha dentata var. *angustifolia* Benth. Pouakai Ra.: near edge of "The Swamp", 3000 feet, B. G. Hamlin, A.P.D.
Isolepis aucklandica Hook. f. "The Swamp", 3000 feet, A.P.D.
I. pottsii (Cook.). Mt. Egmont and Pouakai Ra., A.P.D.
Luzula campestris var. *floribunda* Buchen. Mt. Egmont, 3000-7000 feet, A.P.D.
Poa pusilla Berggr. "The Swamp", river-banks, 3000 feet, B. G. Hamlin, A.P.D.
 **Ranunculus depressus* var. *stewartii* Simp. et Thom. "The Swamp", 3000 feet, B. G. Hamlin, A.P.D.
Ucinia rubra Boott. "The Swamp" and "Holly Flat", 3000 feet, B. G. Hamlin, A.P.D.