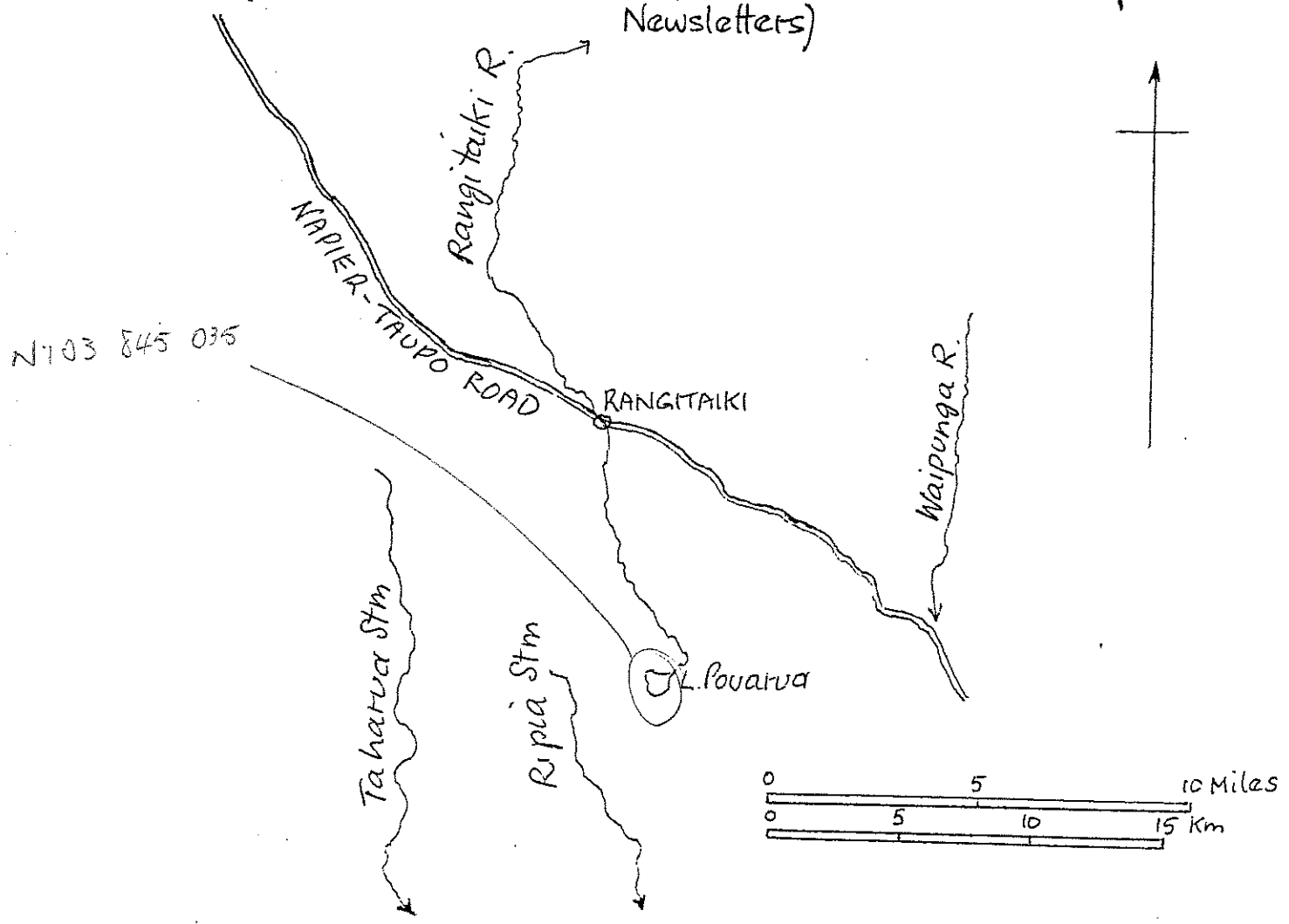


INDIGENOUS HIGHER PLANTS (LYCOPODS, FERNS, GYMNOSPERM  
FLOWERING PLANTS) OF THE UPPER KAINGAROA PLAINS,\*  
AT THE HEAD OF THE RANGITAIKI, TAHARUA, RIPIA, AND  
WAIPUNGA RIVERS, 2100-3000 FT / 640-910 M

(\*excluding any hills)

A.P. Druce, Botany Division, D.S.I.R., 1972  
(revised May 1974, June 1975, July 1976, June 1978,  
June 1979, June 1980, June 1985, April 1986, July 1987, Nov. 1988,  
June 1988, June 1990, July 1991, July 1992)  
(Based on observations 1948-1974, Jan 1986, and Jan 1987)  
(Additions by B.D. Clarkson, 1985-6; S. Beadel 1989)  
(Additional orchid records from N.Z. Native Orchid Group  
Newsletters)



(unc) - uncommon or local

**GYMNOSPERMS**

*Halocarpus bidwillii* (unc)  
*Lagarostrobos colensoi* (unc)  
*Phyllocladus alpinus* s.s. (unc)

**MONOCOT TREES**

*Cordyline australis* (unc)

**DICOT TREES**

*Aristotelia serrata* (unc)  
*Elaeocarpus hookerianus* (unc)  
*Fuchsia excorticata* (unc)  
*Griselinia littoralis* (unc)  
*Pittosporum tenuifolium* (unc)  
*P. turneri* (Ripia V.) (unc)  
*Pseudopanax arboreus* var.  
*arboreus* (unc)  
*P. colensoi* s.s. (unc)  
*P. crassifolius* (unc)  
*P. simplex* (incl. *P. s.* var. *simplex*) (unc)

**DICOT SHRUBS**

*Aristotelia fruticosa* var. *microphylla*  
*A. f.* x *A. serrata* (unc)  
*Carmichaelia* sp. (subgenus  
*Carmichaelia*)  
*Cassinia vauvilliersii*  
*Coprosma acetosa* ssp.  
*C. cheesemanii* s.s.

*C. propinqua* ssp. *propinqua*

*C. rigida* (unc)

*C. sp.* (unnamed; included in *C. parviflora* by Oliver, 1935, and others)

(If undersurface not minutely hairy as is usual in *C. parviflora*; drupes vs. unpigmented, occ. purplish red)

*C. propinqua* x *C. robusta* (unc)

*Coriaria kingiana*

*Cotokia cotoneaster* var. *cotoneaster*

*Cyathodes empetrifolia*

*C. sp.* (*C. juniperina* agg.) (lvs vs. < 1 cm x < 1 mm)

*Dracophyllum subulatum*

*Epactis alpina*

*Gaultheria antipoda*

*G. macrostigma*

*G. sp.* (unnamed; included in *G.*

*depressa*, as var. *novae-zelandiae*, by Franklin 1962)

*G. macrostigma* x *G. sp.* (unnamed)

*Hebe macrocarpa* var. (*H. corriganii*)

*H. stricta* var. *stricta*

*H. sp.* (*Veronica arborea*) (unc)

*Kunzea ericoides* agg.

*Leptospermum scoparium*

*Leucopogon fraseri* s.s.

*Myrsine divaricata* s.s.

*Olearia virgata* var. (lvs smaller than in var. *virgata*)

*Pentachondra pumila* (unc)

*Pimelea prostrata*  
*Pittosporum divaricatum* (unc)  
*Pseudopanax anomalus* (unc)

### DICOT LIANES AND RELATED

#### TRAILING PLANTS

*Clematis forsteri*

*C. quadribacteolata*  
*Muehlenbeckia axillaris*  
*Rubus cissoides* var. (leaflets  
narrower than in var. *cissoides*  
(unc)  
*R. schmidelioides* var. *schmideli-*  
*oides* (unc)

### LYCOPODS

*Lycopodium australianum* (unc)  
*L. fastigiatum*  
*L. laterale* (incl. *L. ramulosum*?)  
(unc)  
*L. scariosum*  
*L. volubile* (unc)

### FERNS

*Asplenium flaccidum* (unc)  
*Azolla filiculoides* (unc)  
*Blechnum chambersii* (unc)  
*B. fluviatile* agg. (unc)  
*B. minus* (unc)  
*B. penna-marina*

*B. procerum*  
*B. vulcanicum* (unc)  
*B. sp.* (unnamed) (common lowland sp.  
lower pinnae reduced in length)  
*Dicksonia fibrosa* (unc).  
*Gleichenia dicarpa*  
*Grammitis billardierei* (unc)  
*G. magellanica* ssp. *nothofageti* (unc)  
*Histiopteris incisa* (unc)  
*Hymenophyllum multifidum*  
*H. ratum* (unc)  
*H. sanguinolentum* agg. (unc)  
*Hypolepis ambigua* (unc)  
*H. millefolium* (unc)  
*Leptopteris hymenophylloides*  
(unc)

*Ophioglossum coriaceum* agg.  
*Paesia scaberula* (unc)  
*Polystichum vestitum*  
*Pteridium esculentum*  
*Sticherus cunninghamii*

### ORCHIDS

*Adenochilus gracilis*  
*Aporostylis bifolia*  
*Caladenia camea* agg.  
*C. difidescens* (unc)  
*C. lyallii*  
*Calochilus tobartsonii* (unc)  
*Chiloglottis cornuta*  
*C. valida* (unc)  
*Corybas acuminatus* (unc)  
*C. cheesemanii* (unc)  
*C. mactanthus*  
*C. oblongus*  
*C. rivularis* s.s.  
*C. trilobus* s.s.

*Gastrodia cunninghamii*

*G. minor*

*G. sesamoides* (unc)

→ *Microtis oligantha* (unc)

*M. parviflora* (unc)

*M. unifolia*

*Orthoceras novae-zealandiae* (unc)

*Prasophyllum colensoi* (unc)

*Ganoplesium nudum* (unc)

*Pterostylis alobula* (unc)

*P. banksii* (unc)

*P. cardiostigma* (unc)

→ *P. patens*

*P. sp.* (unnamed; aff. *P. montana*) (unc)

*P. foliata* (unc)

*Thelymitra cyanea*

*T. decora*

*T. longifolia*

*T. pauciflora*

→ *T. pulchella* (unc)

**GRASSES** ← *Spiranthes novae-zealandiae* (unc)

*Agrostis muscosa* (unc)

*A. personata*

*Chionochoa rubra* ssp. *rubra* (unc)

*Cortaderia fulvida*

*C. toetoe*

*Deschampsia caespitosa* var. *mactantha* (unc)

*D. novae-zealandiae* (unc)

*Deyeuxia avenoides* (incl. *D. a.* var. *brachyantha*)

*D. sp.* (*D. quadrisetata* agg.)

*Elymus nordstroemii* (unc)

*E. tenuis* (unc)

*E. sp.* (aff. *E. tectisetus*) (Group *Waioitu* of Love and Connor, 1982).

*Festuca novae-zealandiae* (Ripia V.)

(unc)

*Hierochloa pedolens*

*Lachnagrostis filiformis* s.s.

*L. striata*

*L. sp.* (i) (unnamed; included in *L. filiformis*, as var. *semiglabra*, by Zotov 1965)

*L. sp.* (ii) (unnamed) (tall, slender plants, with narrow lvs; glumes up to 4 mm long; awns short or absent)

(unc)

*Microlaena stipoides*

*Poa anceps* ssp. *anceps*

*P. cita* ssp.

*Rytidosperma clavatum*

*R. gracile*

*R. merum* (unc)

*R. viride*

*Trisetum sp.* (unnamed; aff. *T. antarcticum*) (If sheath densely hairy if blade up to 5 mm wide, margins with hairs) (unc)

*Zoysia minima* (unc)

**SEDGES**

*Baumea huttonii*

*B. rubicunda*

*B. tenax*

*B. teretifolia*

*Carex breviculmis*

*C. colensoi* (unc)

*C. coriacea*

*C. dipsacea* var. (*C. tahoata*)

*C. dissita* (unc)

*C. echinata* var. (*C. stallulata* var.  
*australis*)

*C. gaudichaudiana*

*C. maorica*

*C. rubicunda*

*C. secta* s.s.

*C. sinclairii* (unc)

*C. testacea* s.s. (unc)

*C. sp.* (*C. diandra*?) (unc)

*Carpha alpina* s.s.

*Eleocharis acuta*

*E. gracilis*

*E. sphacelata* (unc)

*Isolapis basilaris* (L. Pouarua) (unc)

*I. crassiuscula*

*I. distigmatica*

*I. habra* (unc)

*I. pottsii* (unc)

*I. reticularis* (unc)

*I. subtilissima*

*Lepidosperma australe*

*Oreobolus pectinatus*

*Schoenus concinnus* (unc)

*S. maschalinus*

*Uncinia laxiflora* (unc)

*U. rubra*

*U. rupestris* (incl. *U. angustifolia*)

*U. silvestris* (incl. *U. affinis*) (unc)

*U. uncinata* (unc)

*U. sp.* (unnamed) (*U. affinis*)

Hamlin 1959, non *U. riparia* var.

*affinis* Col. ex Clarke; see

Nootboom 1978) (unc)

### RUSHES

*Juncus gregiflorus*

*J. holoschoenus* (unc)

*J. planifolius*

*J. sp.* (*J. pusillus*?)

*Leptocarpus similis* (L. Pouarua)

*Luzula decipiens* (unc)

*L. subclavata* (unc)

*L. sp.* (unnamed; included in *L. picta*, as var. *limosa*, by Edgar 1966)

### MONOCOT HERBS OTHER THAN ORCHIDS, GRASSES, SEDGES, RUSHES

*Arthropodium candidum* (unc)

*Herpolithon novae-zelandiae*

*Lemna sp.* (*L. minor* auct.)

*Phormium cookianum*

*Potamogeton cheesemanii* (unc)

*P. suboblongus* (unc)

*Triglochin striata*

*Typha orientalis* (L. Pouarua)

### COMPOSITE HERBS

*Anaphalis sp.* (unnamed)\*

*Celmisia gracilentata* ssp.

*C. spectabilis* ssp. *spectabilis* (unc)

*C. sp.* (unnamed; aff. *C. gracilentata*)  
(plants strongly rhizomatous)

*Craspedia minor* var. *minor*  
(incl. *C. major*)

\* ("*Helichrysom alpinum*" of  
Cochayne 1928)

*Gnaphalium audax*  
*G. delicatum* (unc)  
*G. involucreatum* (unc)  
*G. limosum* s.s.  
*G. paludosum* s.s.  
*Helichrysum filicaule*  
*Lagenifera montana* (unc)  
*L. pinnatifida* (unc)  
*L. pumila*  
*L. strangulata* (unc)  
*Leptinella dispersa* ssp. *dispersa*

*Microseris scapigera* var.  
*Pseudognaphalium* sp. (*P. luteo-*  
*album* agg.) (lvs mostly linear-  
*spathulate* to linear, acute)  
*Raoulia albosericea*  
*R. tenuicaulis* (incl. *R.t.* var. *di-*  
*morpha* and *R.t.* var. *pusilla*)  
*R. sp.* (unnamed; aff. *R. australis*)  
*R. albosericea* x *R. sp.* (unnamed)  
*Senecio minimus* (unc)  
*S. waitavensis* (unc)  
*Vittadinia australis* agg.

DICOT HERBS OTHER THAN  
COMPOSITES

*Acaena anseriniifolia*  
*A. microphylla* var. *microphylla*  
*Aciphylla* sp. (unnamed; aff. *A.*  
*squarrosa*)

*Cardamine* sp. (i) (*C. debilis* agg.)  
 ("Long Style" of Pritchard 1957) (unc)  
*C. sp.* (ii) (*C. debilis* agg.) (fls small;  
 style short) (unc)  
*Centella uniflora*  
*Crassula sinclairii* (L. POUARUA) (unc)  
*Dichondra* sp. (unnamed; aff. *D. brevifolia*)  
*Drosera binata*  
*D. spathulata*  
*Epilobium alsinoides* s.s. (unc)  
*E. atriplicifolium* s.s.  
*E. chionanthum*  
*E. cinereum*  
*E. hectorii* s.s.  
*E. insulare* (unc)  
*E. komarovianum*  
*E. linnaeoides* (unc)  
*E. netteroides* (unc)  
*E. pallidiflorum*  
*E. pedunculare* s.s.  
*E. tenuipes* s.s.  
*E. sp.* (unnamed; included in  
*E. brunnescens*, as ssp.  
*minutiflorum*, by Raven and  
 Engelman, 1971)  
*E. chionanthum* x *E. pallidiflorum* (unc)  
*Euphrasia cuneata*  
*Galium perpusillum* s.s. (unc)  
*Gentiana grisebachii* s.s.  
*Geranium* <sup>sp. (unnamed; aff. *G.*</sup> *microphyllum*)  
*G. potentilloides* var. *potentill-*  
*oides*  
*G. sessiliflorum* var. *novae-zeal-*  
*andiae*

Glossostigma diandra (unc)	Nertera ciliata
G. elatinoïdes (unc)	N. scapanioides
Gonolobus aggregatus	N. setulosa
G. micranthus ssp. micranthus	Oreomyrrhis sp. (unnamed; aff. O. <sup>tamosa</sup> )
Gratiola sexdentata (unc)	Oxalis exilis (unc)
Gunnera prorepens	Plantago triandra s.s.
	Potentilla anserioides
Hydrocotyle heterometria (unc)	Pratia angulata agg.
H. microphylla (unc)	P. perpusilla
H. moschata (unc)	Ranunculus amphitrichus (unc)
H. novae-zeelandiae s.s. (unc)	R. glabrifolius
H. pterocarpa (unc)	R. limosella (L. Pouarua)
H. sulcata	R. reflexus
H. sp. (unnamed; included in	Rumex flexuosus
H. novae-zeelandiae, as var.	Schizilema trifoliolatum (unc)
montana, by Kirk 1899) var.	Scleranthus uniflorus (unc)
Hypsela rivalis (unc)	Selliera microphylla
Hypericum japonicum agg.	Stackhousia minima
H. sp. (unnamed) (smaller	Stellaria decipiens (incl. S. <sup>parviflora</sup> )
than H. japonicum) (unc)	Urtica incisa (unc)
Lilaeopsis tuthiana	Utricularia australis (L. <sup>Pouarua</sup> )
Limosella lineata	U. novae-zeelandiae
Montia fontana s.s. (unc)	Viola cunninghamii
Myosotis forsteri (unc)	Wahlenbergia albomarginata
Mytiophyllum pedunculatum	var. pygmaea
spp. novae-zeelandiae	
M. propinquum	
M. triphyllum (unc)	

No. of species: 294.

Record not accepted:

Thelymitra aemula (Hatch 1952)

## REFERENCES

- Cockayne L. 1928: "The Vegetation of New Zealand. 2nd ed. Englemann, Leipzig. 456 pp.
- Edgar, E. 1966: Luzula in New Zealand. N.Z. J. Bot. 4: 159-84.
- Franklin, D.A. 1962: The Ericaceae in New Zealand (Gaultheria and Betnetiya). Trans. R. Soc. N.Z. Bot. 1: 155-73.
- ① Hatch, E.D. 1952: The N.Z. forms of Thelymitra T.R. and G. Forster and Appendicis. Trans. R. Soc. N.Z. 79: 386-402.
- Kirk, T. 1899: "The Students' Flora of New Zealand". Government Printer, Wellington. 408 pp.
- Löve, A.; Connor, H.E. 1982: Relationships and taxonomy of New Zealand Wheat grasses. N.Z. J. Bot. 20: 149-86.
- ② Oliver, W. R.B. 1935: The genus Coprosma. Bishop Mus. Bull. 132. 207 pp.
- Pitchard, G.G. 1957: Experimental taxonomic studies on species of Cardamine Linn. in New Zealand. Trans. R. Soc. N.Z. 85: 75-89.
- Raven, P.H.; Englehorn, T. 1971: New taxa + new combinations in Australasian Epilobium (Onagraceae). N.Z. J. Bot. 9: 345-50.
- Zotov, V.D. 1965: Grasses of the subantarctic islands of the New Zealand region. Re.c. Dom. Mus. Wellington 5: 101-46.

Insert above:

- ① Hamlin, B.G. 1959: A revision of the genus Uncinia (Cyperaceae Caricoideae) in New Zealand. Dom. Mus. Bull. 19. 106 pp.
- ② Nootboom, M.P. 1978: A taxonomic revision of the Malaysian and Australian species of Uncinia (Cyperaceae) Blumea 24: 511-20.