

HIGHER PLANTS (LYCOPODS, FERNS, GYMNOSPERMS, FLOWERING PLANTS) IN VICINITY OF KAWEKA LAKES†, EASTERN FOOT OF KURIPAPANGO HILL, KAWEKA RANGE, 600-750 M.

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 March 1986, April 1986, June 1990, July 1992)
 (Based on visits 1957, 1960, 1964, 1974, 1984, 1986)
 (unc - uncommon)

INDIGENOUS SPECIES

GYMNOSPERM TREES AND SHRUBS

Phyllocladus alpinus s.s. (unc)

Podocarpus hallii x

P. nivalis (unc)

MONOCOT TREES

Cordyline australis

DICOT TREES

Carpodetus serratus

Griselinia littoralis (unc)

Nothofagus fusca (unc)

N. solandri (unc)

N. fusca x *N. solandri* (unc)

Pittosporum ralphii

P. tenuifolium ssp. *tenuifolium* (unc)

P. ralphii x *P. tenuifolium* (unc)

Pseudopanax arboreus var.
arboreus (unc)

P. colensoi s.s. (unc)

DICOT SHRUBS

Brachyglottis repanda s.s. (unc)

Carmichaelia sp. (subgenus
Carmichaelia) (unc)

Cassinia vauvilliersii

Coprosma acerosa var. (unc)

C. cheesemani s.s.

C. propinqua ssp. *propinqua*

- C. thamnoides* (incl. *C. polymorpha*) *Hebe stricta* var. *stricta*
- C. robusta* (unc) *Helichtysum aggregatum* var. *aggregatum* (unc)
- C. rugosa* ssp. *rugosa* *Kunzea ericoides* agg.
- C. sp. (i)* (unnamed; aff. *C. cheesemani*) (lvs broader than in *C. cheesemani*) (unc) *Leptospermum scoparium*
- C. sp. (ii)* (unnamed; included in *C. parviflora* by Oliver, 1935, and others) (If undersurface not minutely hairy as is usual in *C. parviflora*; drupes us. unpigmented, occ. purplish red) *Leucopogon fasciculatus* var. *L. fraseri* s.s.
- C. propinqua* X *C. robusta* *Olearia arborescens* (unc)
- Coriaria arborea* *O. furfuracea* var.
- C. kingiana* *O. nummulatifolia* var. *nummulatifolia*
- C. arborea* X *C. kingiana* (unc) *Pimelea longifolia* var. *longifolia* (unc)
- C. a.* X *C. pteridoides* (unc) *P. prostrata*
- Cotokia cotoneaster* var. *cotoneaster* (unc) **DICOT LIANES AND RELATED PLANTS**
- Cyathodes empetrifolia* *Clematis forsteri*
- C. sp. (C. juniperina* agg.) (lvs us. < 1 cm. X < 1 mm) *Muehlenbeckia australis*
- Dracophyllum subulatum* *M. axillaris*
- Epacris alpina* *M. australis* X *M. axillaris* (unc)
- Gaulltheria antipoda* *Rubus cissoides* var. (leaflets narrower than in var. *cissoides*) (unc)
- G. macrostigma*
- G. sp.* (unnamed; included in *G. depressa*, as var. *novae-zelandiae*, by Franklin 1962) **LYCOPODS**
- G. antipoda* X *G. sp.* (unnamed) *Lycopodium australianum* (unc)
- G. a.* X *G. macrostigma* *L. fastigiatum*

*L. scariosum**L. volubile***FERNS***Adiantum cunninghamii* (unc)*Asplenium flabellifolium* agg (unc)*A. flaccidum**A. hookerianum**A. terrestre* ssp. *terrestre**A. flaccidum* X *A. hookerianum*
(unc)*Blechnum chambetsii**B. colensoi* (unc)*B. fluviatile* agg.*B. penna-marina**B. ptocerum**B. minus**B. vulcanicum**B. sp.* (unnamed) (common
sp.; lower pinnae reduced in
length)*Botrychium australe* (unc)*Ctenopteris heterophylla* (unc)*Dicksonia fibrosa* (unc)*Gleichenia dicarpa**Histiopteris incisa**Hymenophyllum cypressiforme*
(unc)*H. multifidum**Hypolepis ambigua**Leptopteris hymenophylloides*
(unc)*Ophioglossum coriaceum* agg.*Paesia scaberola**Pellaea rotundifolia* (unc)*Phymatosorus pustulatus* (unc)*Polystichum richardii**P. vestitum* (unc)*Pteridium esculentum**Pyrtosia eleagniifolia* (unc)**ORCHIDS***Aporostylis bifolia* (unc)*Caladenia carnea* agg.*Chiloglottis cornuta**Corybas macranthus**C. oblongus* (unc)*C. tivolatis* s.s. (unc)*C. trilobus* s.s.*Gastrodia cunninghamii**G. minor* (unc)*Genoplesium nodum* (unc)*Microtis unifolia**Orthoceras novae-zealandiae**Prasophyllum colensoi**Pterostylis foliata* (unc)*P. micromega* (unc)*P. patens**P. sp.* (unnamed; aff. *P. montana*)*Spiranthes novae-zealandiae*

- Thelymitra cyanea*
- T. decora*
- T. hatchii* (unc)
- T. longifolia*
- T. pauciflora*

P. imbecilla

- Rytidosperma clavatum*
- R. gracile*
- R. setifolium*
- R. viride*

GRASSES

- Amphibromus floitans* (unc)
- Chionochloa rubra* ssp. *rubra*
- Cortaderia fulvida*
- Deschampsia caespitosa* var. *macrantha*
- Deyeuxia arenoides* (incl. *D. a.* var. *brachyantha*)
- D. sp.* (*D. quadrisetata* agg.)
- Dichelachne cinnita*
- Echinopogon ovatus*

- Trisetum sp. (c)* (unnamed; aff. *T. antarcticum*) (lf sheath densely hairy)
- T. sp. (c)* (unnamed; aff. *T. antarcticum*) (plants robust; lf sheath glabrous at least in upper part; lf blade margins scabrid)
- T. sp. (c)* (unnamed) (plants slender; lf sheath glabrous or nearly so)

- Elymus sp.* (aff. *E. rectisetos*) (Group *Waioitu* of Löve and Connor, 1982)
- Hierochloa redolens*
- Lachnagrostis filiformis* s.s.
- L. striata*
- L. sp.* (unnamed; included in *L. filiformis*, as var. *semiglabra*, by Zotov 1965)
- L. filiformis* x *L. striata*
- Mirolaena stipoides*
- Poa anceps* ssp. *anceps*
- P. cita* ssp.
- P. colensoi*

SEDGES

- Baumea rubiginosa*
- B. tenax* (unc)
- Carex breviculmis*
- C. cirrhosa* (unc)
- C. coriacea*
- C. dipsacea* var. (*C. tahoata*)
- C. dissita* s.s.
- C. echinata* var. (*C. stellulata* var. *australis*)
- C. fasciculatis* (unc)
- C. flagellifera*
- C. gaudichaudiana*
- C. inversa*
- C. maorica*
- C. secta* s.s.
- C. sinclairii*

C. solandri
C. testacea s.s. (unc)
C. virgata

Carpha alpina s.s.
Eleocharis acuta
E. gracilis
E. sphacelata
Isolepis distigmatosa
I. fluitans
I. pottsii
I. reticularis
I. subtilissima
Lepidosperma australe
Schoenus maschalinus
Uncinia rubra
U. rupestris (incl. *U. angustifolia*)
U. scabra
U. uncinata

RUSHES

Juncus graciflorus
J. planifolius
J. novae-zelandiae
Luzula decipiens (unc)
L. migrata
L. picta s.s.
L. subclavata (unc)

MONOCOT HERBS OTHER THAN ORCHIDS, GRASSES, SEDGES, RUSHES

Arthropodium candidum (unc)
Astelia fragrans (unc)
Herpotion novae-zelandiae (unc)
Lemna sp. (*L. minor* auct.)
Phormium cookianum
P. tenax
Potamogeton cheesemanii
P. suboblongus
Triglochin striata
Typha orientalis

COMPOSITE HERBS

Anaphalis spp. (see p. 6)
Brachyglottis lagopus var. *lagopus* (unc)
Celmisia glandulosa ssp.
glandulosa (unc)
C. gracilentata ssp.
C. spectabilis ssp. *spectabilis*
C. sp. (unnamed; aff. *C. gracilentata*
 (plants strongly rhizomatous))
Craspedia minor var. *minor*
 (incl. *C. major*)
C. viscosa
C. sp. (unnamed) (summer-green
 bog plant; capitula 1.0-1.5 cm
 diam.)
Gnaphalium audax
G. delicatum
G. gymnocephalum
G. involucratum

G. limosum s.s.

Anisotome aromatica (unc)

G. sphaeticum

Helichrysum filicaule

Anaphalis sp. (i) (unnamed; aff. *A. keriansis*)

(lvs shorter, and capitula smaller, than in *A. keriansis*)

A. sp. (ii) (*Helichrysum bellidoides* s.s.) *Cardamine* sp. (i) (*C. debilis* agg.)

("long style" of Pritchard 1957)

A. sp. (iii) (unnamed) ("Helichrysum alpinum" of Cockayne 1928)

C. sp. (ii) (*C. debilis* agg.) ("Narrow Petal" of Pritchard 1957)

(lvs and capitula larger than in *A. sp.* (ii))

C. sp. (iii) (*C. debilis* agg.) ("Glossy Leaf" of Pritchard 1957)

Lagenifera pumila

Centella uniflora

Microseris scapigera var.

Dichondra repens agg.

Pseudognaphalium sp. (*P. luteoalbum* agg.) (lvs mostly linear-spathulate to linear, acute)

D. sp. (unnamed; aff. *D. brevifolia*)

Raoulia albosericea (unc)

Drosara binata

R. tenuicaulis (incl. *R. t.* var. *dimorpha* and *R. t.* var. *pusilla*)

D. peltata ssp. *auriculata*

R. glabra X *Helichrysum filicaule* (unc)

Epilobium alsinoides s.s.

Senecio glaucophyllus ssp. *toa*

E. atriplicifolium s.s.

S. minimus

E. brunnescens s.s.

S. quadridentatus

E. billardiereanum s.s. (unc)

S. sp. (unnamed; included in *S. glaucophyllus*, as ssp. *discoides*, by Ornduff 1960)

E. chionanthum

E. cinereum

E. insulare

E. komarovianum

E. glabellum s.s. (unc)

E. melanocaulon (unc)

Vittadinia australis agg.

DICOT HERBS OTHER THAN COMPOSITES

Acaena auserinifolia

E. microphyllum (unc)

A. sp. (*A. emittens* or *A. juvenca*)

E. netteroides

Aciphylla sp. (unnamed; aff. *A. squarrosa*) (unc)

- E. nummularifolium
- E. pedunculata s.s. (unc)
- E. pubens
- E. rotundifolium
- E. tenuipes s.s.
- E. sp. (unnamed; included in E. brunnescens, as ssp. minutiflorum, by Raven and Engelman, 1971)
- Euphrasia cuneata
- Galium perpusillum s.s.
- G. propinquum
- G. trilobum (unc)
- G. sp. (unnamed; aff. G. perpusillum) (lvs wider than stipules, narrowly lanceolate; apex rounded to subacute, bristles 0-2)
- Gentiana grisebachii s.s. (unc)
- Geranium microphyllum
- G. potentilloides var. potentilloides
- G. sessiliflorum var. novaezealandiae
- Glossostigma elatnioides
- Gonocarpus aggregatus
- G. micranthus ssp. micranthus
- Gratiola sexdentata
- Gunnera protepens
- Hydrocotyle elongata
- H. hydrophila
- H. microphylla
- H. moschata
- H. novae-zealandiae s.s.
- Hypericum japonicum agg.
- H. sp. (unnamed) (much smaller than H. japonicum)
- Hypsela rivalis
- Lilaeopsis tuthiana
- Linum monogynum
- Mantha cunninghamii
- Montia fontana s.s.
- Myriophyllum pedunculatum ssp. novae-zealandiae
- M. propinquum
- M. triphyllum
- Nertera ciliata
- N. depressa (incl. N. cunninghamii)
- N. setulosa
- Oreomyza sp. (i) (unnamed; aff. O. ramosa)
- O. sp. (ii) (unnamed; included in O. colensoi, as var. delicatula, by Allan 1961) (unc)
- Durisia macrophylla ssp. robusta (unc)
- Oxalis exilis
- Plantago raoulii
- Potentilla anserioides
- Pratia angulata agg.
- P. perpusilla
- Ranunculus amphitrichus
- R. glabrifolius
- R. limosella (unc)
- R. mactopus (unc)
- R. reflexus

Rotippa palustris
Rumex flexuosus (unc)
Scleranthus uniflorus (unc)
Stackhousia minima
Urtica incisa
Viola cunninghamii
V. lyallii
Nahlenbergia albomarginata
 var. *pygmaea*
W. colensoi
W. rupestris

No. of indigenous species: 290.

ADVENTIVE SPECIES

GRASSES

Agrostis capillaris
Aira caryophylla
Anthoxanthum odoratum
Bromus hordeaceus
Dactylis glomerata
Festuca arundinacea s.l. (unc)
F. nigrescens
Holcus lanatus
Poa pratensis
Rytidosperma racemosum
Vulpia bromoides

SEDGES

Carex ovalis

RUSHES

Juncus articulatus
J. bufonius
J. effusus
J. tenuis

MONOCOT HERBS OTHER THAN

GRASSES, SEDGES, RUSHES

Ottelia ovalifolia
Potamogeton crispus

COMPOSITE HERBS

Centipeda cunninghamii
Cirsium arvense
C. vulgare
Conyza sp.
Crepis capillaris
Gnaphalium spicatum

Hieracium pilosella
Hypochoeris radicata
Leontodon taraxacoides
Mycelis muralis

Myosotis laxa ssp. caespitosa
Pelargonium inodorum
Plantago major
Polygonum hydropiper
P. prostratum

Senecio jacobaea
S. sylvatica
Sonchus asper
Taraxacum officinale s.l.

Prunella vulgaris
Ranunculus repens
R. sp. (R. fluitans auct. N.Z.)
Rumex acetosella

DICOT HERBS OTHER THAN
COMPOSITES

Acaena agnipila
A. novae-zelandiae
Anagallis arvensis
Actium sp. (unc)
Arenaria serpyllifolia
Centaurium erythraea
Cerastium fontanum ssp. vulgare
Epilobium ciliatum
Hypericum humifusum
Linum catharticum
Lotus pedunculatus

R. crispus
R. obtusifolius
Sagina procumbens
Solanum americanum
Trifolium dubium
T. repens
Verbascum creticum
V. thapsis
Veronica sp.
Wahlenbergia marginata

No. of adventive species: 62.

REFERENCES

Ornduff, R. 1960: An interpretation of the Senecio laetus complex in N.Z. T.R.S. N.Z. 80: 63-77
Allan, H.H. 1961: "Flora of New Zealand." Government Printer, Wgtn. Vol. 1. 1085 pp.
Cockayne, L. 1928: "The Vegetation of New Zealand." 2nd ed. Englemann. 456 pp.
Franklin, D.A. 1962: The Ericaceae in New Zealand (Gaultheria and Perrettia). Trans. Roy. Soc. N.Z. Bot. 1: 155-73.
Oliver, W.R.B. 1935: The genus Coprosma. Bishop Mus. Bull. 132: 207 pp.
Pitcheard, G.G. 1957: Experimental taxonomic studies on species of Cardamine Linn. in New Zealand. Trans Roy Soc. N.Z. 85: 75-89.
Raven, P.H.; Englehorn, T. 1971: new taxa and 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. Rec. Dom. Mus. Wellington 5: 101-46.
Love, A.; Connor, H.E. 1982: Relationships & taxonomy of N.Z. wheat grasses. N.Z. J. Bot. 30: 169-86.

