

HIGHER PLANTS (LYCOPODS, FERNS, GYMNOSPERMS, FLOWERING PLANTS) OF MT ST PATRICK†, ST JAMES RA., N. CANTERBURY,
825-1775 M / 2700-5800 FT

Terrestrial ref. S47 105878

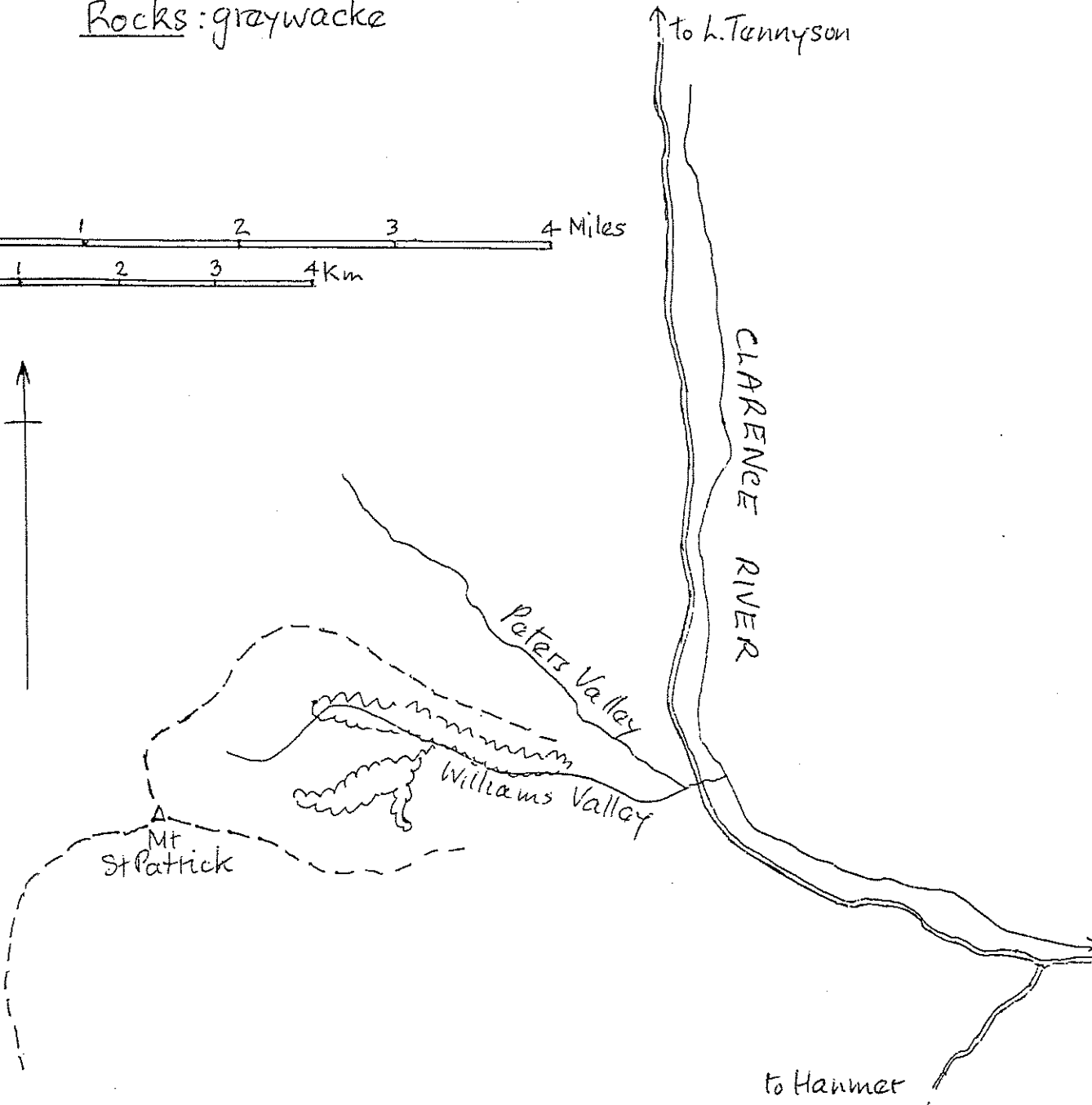
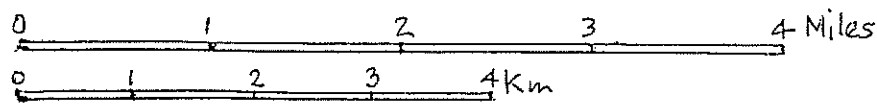
A.P. Druce and M.J.A. Simpson, Botany Division, D.S.I.R.
August 1978

(revised June 1979, June 1980, July 1985, May 1987, Sept. 1987, Dec 1987,
June 1988, October 1988, Nov. 1990, July 1991, Aug. 1992)

(Based on visits May 1973, April 1975, Jan. 1976)

(Originally published in Bull. Wellington Bot. Soc. 40: 8-23, 1978)

Rocks: graywacke



* - voucher specimen in CHR (Bot. Div. Herbarium, Lincoln)
(unc) - uncommon or local

INDIGENOUS PLANTS

GYMNOSPERM TREES AND SHRUBS

- * *Phyllocladus alpinus* s.s.
- Podocarpus hallii* (unc)
- P. nivalis*
- P. hallii* x *P. nivalis* (unc)

DICOT TREES

- Nothofagus solandri* var. *cliffortioides*
- * *Pittosporum patulum* (unc)
- Pseudopanax* sp. (unnamed; included in *P. colensoi*, as var. *ternatum* and as var. *fiordensis* by Wardle 1968)

- C. microcarpa* (unc)
- C. perpusilla* ssp. *perpusilla*
- C. petriei* (unc)
- C. propinqua* ssp. *propinqua*
- C. pseudocuneata* ssp. (lvs narrower than in ssp. *pseudocuneata*)
- C. thamnoides* (incl. *C. polymorpha*)
- C. sp.* (i) (unnamed; aff. *C. pseudocuneata*) (low-growing shrubs with small, thick, arcuate lvs)
- C. sp.* (ii) (unnamed; included in *C. parviflora* by Oliver, 1935, and others) (lf undersurface not minutely hairy as is usual in *C. parviflora*; drupes vs. unpigmented, occ. purplish red)

DICOT SHRUBS

- * *Aristotelia fruticosa* var. *brachyglottis* *bidwillii* var. *viridis*
- * *Carmichaelia* sp. (subgenus *Carmichaelia*) (unc)
- * *Cassinia leptophylla* var. *leptophylla*
- * *C. vauvilliersii*
- C. leptophylla* x *C. vauvilliersii*
- Coprosma atropurpurea* (unc)
- C. cheesemani* s.s.
- * *C. ciliata* ssp.
- C. depressa*
- * *Coriaria plumosa* (unc)
- * *C. sarmentosa*
- C. plumosa* x *C. sarmentosa* (unc)
- Discaria toumatou*
- * *Dracophyllum proum*
- D. uniflorum*
- Exocarpos bidwillii*
- * *Gaultheria crassa*
- G. sp.* (unnamed; included in *G. depressa*, as var. *novae-zelandiae*, by Franklin 1962)
- G. crassa* x *G. sp.* (unnamed)

- * *Hebe anomala*
- * *H. cheesemanii* (unc)
- * *H. ciliolata* (unc)
- H. decumbens*
- * *H. epactidea* var.
- * *H. glaucophylla* (unc)

- * *H. lycopodioides*

- * *H. macrantha* var. *brachyphylla*
- * *H. pinguifolia* s.s.
- * *H. rakaiensis*
- * *H. taoulii* s.s.
- * *H. salicornioides* var. *salicornioides* (unc)
- H. traversii* (unc)
- * *H. venustula* (incl. *H. brachysiphon*)
- * *H. sp.* (unnamed; aff. *H. rigidula*)
(lvs larger than in *H. rigidula*,
upto 4x1cm, widest above
midpoint, weakly keeled, boat-
shaped) (unc)
- * *Helictysum depressum* (unc)
- * *H. intermedium* var. (*H. selago*
var. *acutum*)
- * *H. parvifolium*
- Kunzea ericoides* agg.
- Leucopogon fraseri* s.s.
- L. suaveolens* (incl. *Cyathodes*
colensoi)
- Meliccytus alpinus* s.s.
- * *Myrsine nummularia*
- Olearia avicenniifolia* (unc)
- O. cymbifolia*
- Pentachondra pumila* (unc)
- Peraxilla tetrapetala* (unc)

- * *Pimelea concinna*
- P. suteri* var. (*P. oreophila*)
- P. traversii* (unc)
- Pittosporum anomalum* (unc)
- P. divaricatum*
- * *Traversii baccharoides*

DICOT LIANES AND RELATED

TRAILING PLANTS

- Clematis foisteri*
- * *C. quadribracteolata* (unc)
- Muehlenbeckia axillaris*

LYCOPODS

- Lycopodium australianum*
- L. fastigiatum*
- L. scariosum*

FERNS

- Asplenium flabellifolium* agg. (unc)
- * *A. richardii*
- Blechnum penna-marina*
- B. minus* (unc)
- Cystopteris tasmanica*
- * *Grammitis poeppigiana*
- * *G. givenii* (unc)
- * *G. patagonica* (unc)
- * *Hymenophyllum multifidum* (unc)
- H. peltatum* (unc)
- H. villosum* (unc)
- Hypolepis millefolium*
- * *Ophioglossum coriaceum* agg.
- Polystichum cystostegia* (unc)
- P. vestitum*
- Pteridium esculentum*

ORCHIDS

- Corybas macranthus* (unc)
- C. trilobus* s.s.
- Microtis oligantha* (unc)
- Prasophyllum colensoi*
- * *Pterostylis areolata* (unc)
- * *P. sp.* (aff. *P. cycnocephala*) (unc)
- Thelymitra formosa* (unc)
- * *T. longifolia* (unc)

GRASSES

- * *Agrostis dyeri* ass.
- * *A. muelleriana*
- * *A. pallescens* (unc)
- * *Chionocholea australis*
- * *C. macra*
- * *C. pallens* ssp. *pilosa*
- * *C. sp.* (unnamed) (*C. flavescens* auct. South Island, non *C. flavescens* Zotov)
- C. macra* x *C. pallens*
- C. m.* x *C. sp.* (unnamed)
- Cortaderia richardii*
- * *Deschampsia chapmanii* (unc)
- D. tenella* (unc)
- Deyeuxia avenoides* (incl. *D. a.* var. *brachyantha*)
- Dichelachne chinita*
- * *Elymus anysii*
- * *E. sp.* (i) (aff. *E. rectisetus*)
- * *E. sp.* (ii)

- Festuca novae-zelandiae*
- * *F. sp.* (unnamed; aff. *F. rubra*)
- Hierochloa novae-zelandiae*
- * *Koeleria cheesemani*
- * *K. sp.* (*K. novozelandica* ass.) (lvs up to 2mm wide, flat to rolled)
- * *Lachnagrostis sp.* (unnamed; included in *L. filiformis*, as var. *semiglabra*, by Zotov 1965)
- * *Poa breviglumis*
- * *P. buchananii*
- P. cita* ssp. *cita*
- P. colensoi*
- * *P. dipsacea*
- * *P. kirkii*
- * *P. maia*
- * *P. sp.* (i) (unnamed; aff. *P. novae-zelandiae*)
- * *P. sp.* (ii) (undetermined)
- Rytidosperma australe*
- R. buchananii*
- R. gracile*
- * *R. pumilum* (unc)
- * *R. setifolium*
- * *Trisetum youngii*
- * *T. sp.* (unnamed; plants slender; lf sheath usually glabrous; lf blade up to 2.5mm wide)

SEDGES

- Carex acicularis* (unc)
- C. breviculmis*
- C. comans* (unc)
- * *C. coriacea*
- C. diandra* (unc)
- C. dissita* s.s.

- *C. flagellifera (unc)
- *C. gaudiichaudiana
- *C. inversa (unc)
- *C. petriei
- C. sinclairii

*C. wakatipu agg.

C. sp. (unnamed; included in C. secta, as var. tenuiculmis, by Petrie 1920) (unc)

- Carpha alpina s.s. (unc)
- Eleocharis acuta (unc)
- E. gracilis (unc)

*Isolopis aucklandica

- I. caligenis
- I. habra (unc)

Oreobolus pectinatus

*Schoenus pauciflorus s.s.

*Uncinia divaricata

*U. purpurata (incl. U. fuscovaginata var. caespitans) (?)

U. rubra (unc)

U. uncinata

RUSHES

Juncus antarcticus (unc)

J. gregiflorus

*J. novae-zelandiae

Luzula migrata (unc)

*L. pumila (unc)

*L. rufa s.s.

*L. traversii s.s. (unc)

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

*L. sp. (ii) (unnamed; included in L. chinata, as var. petrieana) Edgar 1966) (unc)
L. sp. (iii) (undetermined)

MONOCOT HERBS OTHER THAN ORCHIDS, GRASSES, SEDGES, RUSHES

Astelia nervosa s.s.

A. petriei

*Bulbinella hookeri

Potamogeton cheesemani (unc)

Phormium cookianum

COMPOSITE HERBS

Abrotanella caespitosa (unc)

Anaphalis sp. (Helichrysum bellidioides) s.s.

Brachyscome radicata (unc)

*B. sinclairii s.s.

Brachyglottis bellidioides

Celmisia alpina (unc)

*C. gracilentata ssp.

*C. incana (incl. C. discolor)

*C. laticifolia

*C. latetalis (incl. C. l. var. villosa)

C. monroi ssp. (C. semicordata)

*C. sessiliflora

*C. sinclairii (incl. C. Callanii & C. dupretzii)

*C. spectabilis ssp. spectabilis

*C. traversii

*C. viscosa

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

C. sessiliflora x C. viscosa (unc)

C. spectabilis x C. traversii (unc)

C. s. x C. viscosa (unc)

- * *Leptinella dandyi*
- L. dioica* ssp. *dioica* (unc)
- L. pectinata* ssp. *pectinata*
- * *L. pusilla* (unc)
- * *L. pyrathrifolia* agg.
- * *L. serrulata* (unc)
- L. sp.* (unnamed; included in *L. squalida*, as ssp. *mediana*, by Lloyd and Webb, 1987)
- * *Craspedia lanata* s.s.
- * *C. sp.* (unnamed; included in *C. lanata*, as var. *elongata*, by Allan 1961)
- Dolichoglottis lyallii*
- D. scorzoneroides*
- D. lyallii* x *D. scorzoneroides*
- Gnaphalium audax*
- * *G. ensifer*
- G. limosum* s.s. (unc)
- G. mackayi* s.s.
- G. traversii*
- * *G. sp.* (undetermined)
- * *Haastia pulvinaris* s.s.
- * *H. sp.* (unnamed; included in *H. pulvinaris*, as var. *minor*, by Laing 1912)
- Helichthysum filicaule*
- * *Lagenifera barkeri* (unc)
- L. cuneata*
- L. strangulata*
- * *Leucogones grandiceps*
- * *L. g.* x *Raoulia bryoides* (unc)
- Microsetis scapigera* var.
- * *Pseudognaphalium sp.* (unnamed; aff. *P. luteoalbum*)
- * *Raoulia apicinigra* s.s.
- R. australis* s.s.
- * *R. bryoides*
- R. glabra* (unc)
- R. grandiflora* var.
- R. subsericea*
- R. tenuicaulis* (incl. *R. t.* var. *dimorpha* and *R. t.* var. *pusilla*)
- * *R. sp.* (unnamed) (forming loose, grey patches; lvs rigid, recurved) (unc)
- * *Senecio dunedinensis* (unc)
- * *S. glaucophyllus* ssp. (aff. ssp. *toa*) (unc)
- S. quadridentatus*
- * *S. sp.* (unnamed?)
- Taraxacum magellanicum*
- Vittadinia australis* agg.

DICOT HERBS OTHER THAN COMPOSITES

- * *Acaena anserinifolia*
- * *A. caesiiglauca*
- * *A. fissistipula*
- * *A. glabra*
- * *A. inermis*
- * *A. profundeincisa*
- * *A. saccaticupula*
- A. anserinifolia* x *A. inermis*
- * *Aciphylla aurea*
- * *A. colensoi* var. *edensei*

- * *A. montoi*
- * *A. subflabellata* (unc)
- * *A. sp.* (unnamed) (Section *Elongatae*, group c) (unc)
- * *A. colensoi* X *A. sp.* (unnamed) (unc)
- * *Anisotome aromatica*
- * *A. filifolia*
- * *A. pilifera*
- * *A. sp.* (unnamed; included in *A. imbricata*, as var. *prostrata*, by Dawson 1961)
- * *Cardamine sp.* (i) ("Scree Race" of Pritchard 1957)
- * *C. sp.* (ii) (*C. debilis* agg.) (fls small or large, 3.5-10 mm diam; capsules vs. densely, minutely hairy)
- C. sp.* (iii)
- Cheesemanina sp.* (unc)
- * *Chionohebe pulvinaris*
- * *Colobanthus acicularis*
- * *C. apetalus* (incl. *C. a.* var. *alpinus*)
- * *C. buechananii*
- C. strictus*
- * *Clasula sp.* (*C. scaberrima* or *C. tetramera*)
- Epilobium alsinoides* s.s. (unc)
- * *E. atriplicifolium* s.s.
- * *E. brevipes* (unc)
- E. brunnescens* s.s.
- E. chionanthum* (unc)
- * *E. chlorifolium*
- * *E. crassum*
- * *E. glabellum* s.s.
- * *E. hirtigerum* (unc)
- E. insulare*
- E. komarovianum* (unc)
- E. linnaeoides* (unc)
- * *E. macropus*
- * *E. melanocaulon*
- E. microphyllum*
- E. nertetoides*
- * *E. porphyrium*
- E. pubens*
- * *E. pycnostachyum*
- * *E. tasmanicum*
- E. tenuipes* s.s.
- * *E. sp.* (unnamed; included in *E. brunnescens*, as ssp. *minutiflorum*, by Raven and Engelhorn, 1971)
- E. macropus* X *E. nertetoides* (Raven and Raven, 1976)
- Euphrasia zelandica* agg. (unc)
- * *E. sp.* (unc)
- Forstera tenella* (unc)
- Galium perpositum* s.s.
- G. trilobum* (unc)
- * *Gentiana corymbifera* s.s.
- G. grisebachii* (unc)
- G. sp.* (unc)
- G. sp.* (unnamed; aff. *G. microphyllum*)
- G. sessiliflorum* var. *novae-zelandiae*
- * *Geum sp.* (*G. parviflorum* agg.) (stock short; terminal leaflet about as long as broad; fls up to 13 mm diam.)

- * *Gingidia decipiens* (unc)
- * *G. montana*
- * *G. trifoliolata* (unc)
 - Gonocarpus aggregatus*
 - G. micranthus* ssp. *micranthus* (unc)
- * *G. montanus* (unc)
- * *Gunnera densiflora* (unc)
 - Hydrocotyle sulcata*
 - H. sp.* (unnamed; included in *H. novae-zeelandiae*, as var. *montana* by Kirk (1899))
 - Kelleria dieffenbachii*
- * *Lignocarpa carnosula*
- Lobelia roughii*
- Mazus radicans* (unc)
- Mentha cunninghamii* (unc)
- Neopaxia sp.* (include *Montia calycina* and *Claytonia australasica* var. *biflora*)
- Montia fontana* s.s.
- * *Myosotis lyallii* (incl. *M. l. var. townsonii* and *M. elderti*) (unc)
- * *M. traversii* s.s.
- * *M. sp. (i)* (unnamed; included in *M. pygmaea*, as var. *drucei*, by Moore (1961)) (unc)
- * *M. sp. (ii)* (*M. australis* agg.) (*M. saxatilis* Petrie 1918, non *M. saxatilis* Pallas 1795)
- * *M. sp. (iii)* (*M. australis* agg.) (fls yellow)
- Myriophyllum propinquum* (unc)
- M. triphyllum* (unc)
- Nertera balfouriana* (unc)
- N. ciliata* (unc)
- * *Notothlaspi australe* s.s.
- Notothlaspi sp.* (unnamed) (*N. australe* auct.; non *Thlaspi* Hook. f.)
- * *Oreomyrrhis colensoi* s.s. (incl. *O. var. hispida* & *O. c. var. multifida*)
 - O. sp. (i)* (*O. ramosa* agg.)
 - O. sp. (ii)* (unnamed; aff. *O. colensoi*)
- * *Ourtisia caespitosa* ssp. (unc)
 - O. lactea* ssp. *lactea*
 - Patahebe decora* (unc)
 - P. lyallii*
- * *Phyllachne colensoi* var.
- Plantago lanigera* s.l.
- P. triandra* s.s.
- * *P. uniflora*
- Potentilla anserinoides* (unc)
- Pratia angulata* agg.
- P. macrodon* s.s.
- Psychophila obtusa* var. *cheesemanii*
- * *Ranunculus cheesemanii* (unc)
- * *R. foliosus*
- R. glabrifolius* (unc)
- R. gracilipes*
- R. haastii* ssp. *haastii*
- R. insignis*
- R. reflexus*
- R. toyi*
- R. sp.* (unnamed; included in *R. lappaceus*, as var. *macrophyllus*, by Kirk (1899)) (unc)
- Rumex flexuosus* (unc)
- Schizaelema nitens*
- * *S. pallidum*
- * *S. roughii*

- * *Scleranthus brockiei*
S. uniflorus
Stackhousia minima (unc)
Stellaria decipiens (incl. *S. patviflora*)
S. gracilentata
 * *S. roughii*
Swainsona novae-zelandiae (unc)
Viola cunninghamii
 * *Wahlenbergia albomarginata* var. *albomarginata* (incl. *W. pygmaea* var. *laxa*, *W. brockiei*, and *W. simpsonii*)
 * *W. rupestris* (unc)

Erroneous record

Lagenifera montana (Drury 1974)
 (= *L. barkeri*)

No. of indigenous spp.: 352.

ADVENTIVE PLANTS

TREES AND SHRUBS

Cytisus scoparius
Larix decidua
Pinus sp.
Salix fragilis
Rosa rubiginosa

Lolium perenne
Phleum pratense
Poa annua
P. pratensis
P. trivialis
Rytidosperma penicillatum
Vulpia bromoides

GRASSES

Agrostis capillaris
Aira caryophylla
Alopecurus geniculatus
Anthoxanthum odoratum
Cynosurus cristatus
Dactylis glomerata
Festuca nigrescens
Glyceria declinata
Holcus lanatus

SEDGES AND RUSHES

Carex ovalis
Juncus articulatus
J. bufonius
J. effusus
J. tenuis
 * *J. effusus* x *J. graciflorus* (?)

COMPOSITE HERBS

Achillea millefolium
Cirsium arvense
C. vulgare
Crepis capillaris
Hieracium pilosella
*H. praecox
Hypochoeris radicata
Leucanthemum vulgare
Matricaria perforata
M. matricarioides
Mycelis muralis

Senecio jacobaea

Rumex acetosella
R. crispus
R. obtusifolius
Sagina procumbens
*Stellaria graminea
Trifolium arvense
T. dubium
T. pratense
T. repens
Verbascum thapsus
Veronica serpyllifolia

DICOT HERBS OTHER THAN COMPOSITES

Callitriche stagnalis
Centaurea erythraea
Cerastium fontanum ssp. triviale
Dianthus armeria
Echium vulgare
*Epilobium ciliatum
Hypericum perforatum
Linum catharticum
Mimulus moschatus
*Myosotis discolor
*M. laxa ssp. caespitosa
*Nasturtium microphyllum
Navaretia squarrosa
Orobancha minor
Plantago lanceolata
P. major
*Polygonum arenastrum
Prunella vulgaris
*Ranunculus sceleratus
R. trichophyllus

No. of adventive spp. : 69.

REFERENCES

- Atlan, H.H. 1961: "Flora of New Zealand". Government Printer, Wellington. Vol. 1. 1085 pp.
- Dawson, J.W. 1961: A revision of the genus Arisotome (Umbelliferae). Univ. Calif. Publ. Bot. 33: 1-98.
- Drury, D.G. 1974: A broadly based taxonomy of Lagenifera section Lagenifera and Solenogyne (Compositae-Asteraceae), with an account of their species in New Zealand. N.Z. J. Bot. 12: 365-96.
- 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 Perrettia). Trans. R. Soc. N.Z. Bot. 1: 155-73.
- Kirk, T. 1899: "The Students' Flora of New Zealand". Government Printer, Wellington. 408 pp.
- Lloyd, D.G.; Webb, C.J. 1987: The reinstatement of Heptinella at generic rank, and the status of the "Cotuleae" (Asteraceae, Anthemidiaceae). N.Z. J. Bot. 25: 99-105.
- Mooze, L.B. 1961: In "Flora of New Zealand". Government Printer, Wellington. Vol. 1. 1085 pp.
- Oliver, W.R.B. 1935: The genus Coprosma. Bull. Bishop Mus. Honolulu 132: 207 pp.
- Petrie, D. 1918: Descriptions of new native flowering plants. Trans. N.Z. Inst. 50: 207-11.
- 1920. Descriptions of new native flowering plants. Trans. N.Z. Inst. 52: 17-9.
- 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.; Engellhorn, T. 1971: New taxa and combinations in Australasian Epilobium (Onagraceae). N.Z. J. Bot. 9: 345-50.
- Raven, P.H.; Raven, T.E. 1976: The genus Epilobium (Onagraceae) in Australasia: a systematic and evolutionary study. N.Z. D.S.I.R. Bull. 216: 321 pp.
- Wardle, P. 1968: The taxonomy and distribution of the stipulate species of Pseudopanax in New Zealand. N.Z. J. Bot. 6: 226-36.
- Zotov, V.D. 1965: Grasses of the subantarctic islands of the New Zealand region. Rec. Dom. Mus. Wellington 5: 101-46.

