

INDIGENOUS HIGHER PLANTS (LYCOPOOS, FERNS, GYMNOSPERMS  
FLOWERING PLANTS) OF BOULDER STM CATCHMENT, WAIRAU  
MOUNTAINS, MARLBOROUGH,  
1700-6960 FT (500-2120M)

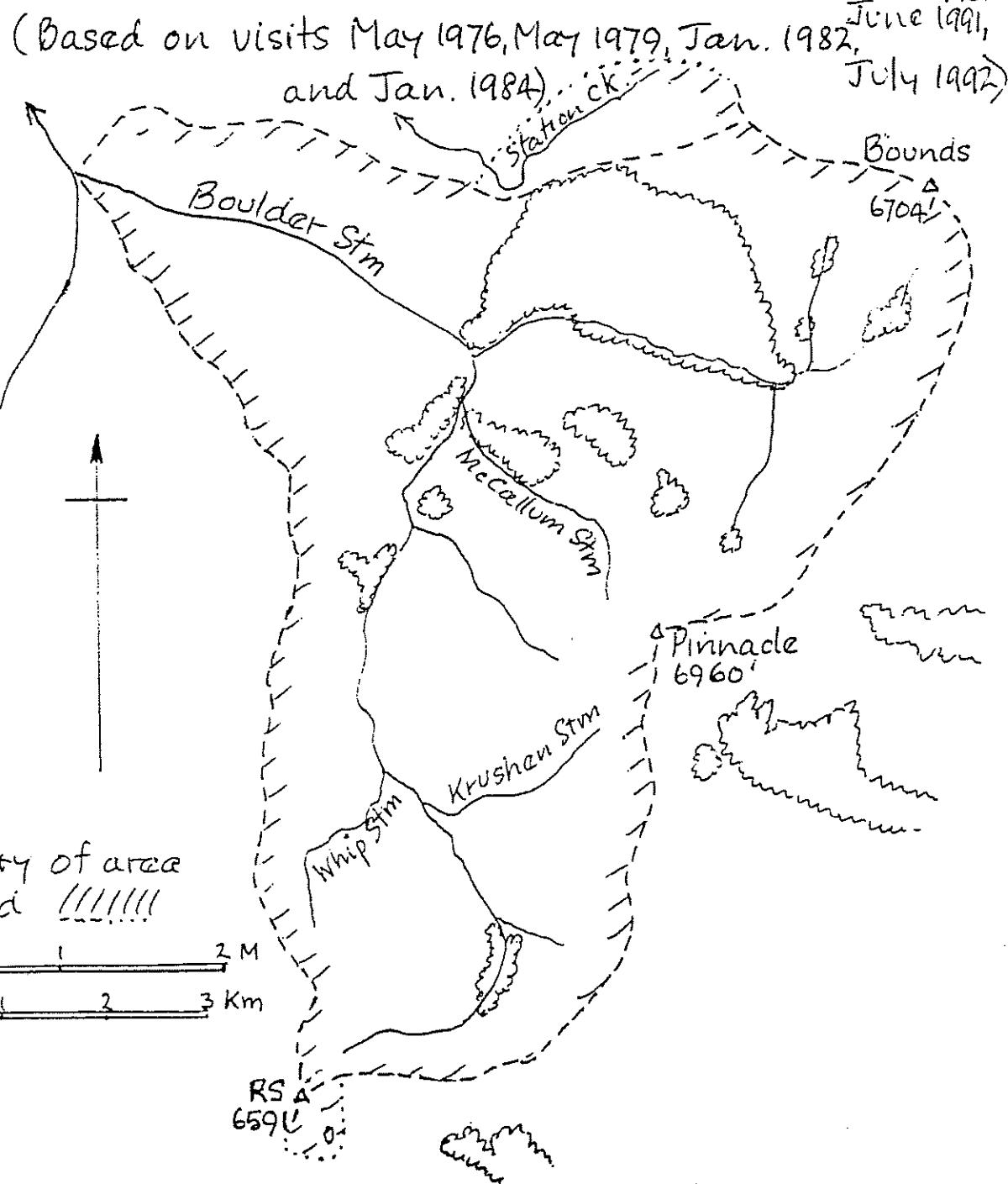
A.P. Druce, Botany Division, D.S.I.R., May 1982

(Revised June 1983, Aug. 1983, May 1984, June 1984, Aug. 1985,  
Aug. 1986, June 1987, Aug. 1987, Sept. 1987, April 1990, Nov. 1990,

+ Highest peaks: Mt Pinnacle, 6960 ft, S 34 615642  
Mt Bounds, 6704 ft, S 34 644689

June 1987, Sept. 1987, April 1990, Nov. 1990, June 1991,

July 1992)



(unc) - uncommon or local

**GYMNOSPERM TREES AND SHRUBS**

*Podocarpus hallii*

*P. nivalis*

*P. hallii* × *P. nivalis* (unc)

*C. ciliata*

*C. colensoi* s.s. (unc)

*C. linariifolia*

*C. microcarpa*

*C. parpusilla* ssp. *parpusilla*

*C. propinqua* ssp. *propinqua*

**DICOT TREES**

*Carpodetus serratus*

*Elaeocarpus hookerianus* (unc)

*Fuchsia excorticata*

*Griselinia littoralis*

*Nothofagus fusca*

*N. solandri*

*N. fusca* × *N. solandri*

*Pittosporum patulum* (unc)

*P. tenuifolium* ssp. *tenuifolium*

*Pseudopanax colensoi* s.s. (unc)

*P. crassifolius*

*P. simplex* (incl. *P. s.* var. *sindaitii*)  
(unc)

*Sophora microphylla*

*C. pseudocuneata* ssp. (unc)

*C. thamnoides*

(incl. *C. polymorpha*)

*C. rigida* (unc)

*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 us. unpigmented, occ. purplish red)

*C. sp. (iii)* (unnamed) (*C. parviflora* var. *dumosa* sensu Allan 1961, non *C. p. var. dumosa* Cheeseman) (unc)

*Coriaria sarmentosa*

*Corokia cotoneaster* var. *cotoneaster*

*Cyathodes* sp. (*C. juniperina* agg.)  
(lvs us. 2 cm x 1 mm)

*Discaria toumatou*

*Coprosma atropurpurea*

*C. cheesemanii* s.s.

<i>Diacophyllum longifolium</i> var. (incl. <i>D. filifolium</i> and <i>D. oliveri</i> )	H.sp.(ii)(unnamed; included in H. <i>raoulii</i> , as var. <i>pentasepala</i> , by Moore 1961)(unc)
<i>D. proumum</i>	
<i>D. uniflorum</i>	<i>Helichrysum aggregatum</i> var.
<i>D. longifolium</i> X <i>D. uniflorum</i> (unc)	<i>aggregatum</i>
<i>Gaultheria antipoda</i>	<i>H. cotalloides</i> s.s.
<i>G. crassa</i>	<i>H. depressum</i>
<i>G. sp.(unnamed; included in G.</i> <i>depressa</i> , as var. <i>novae-zelandiae</i> , by Franklin 1962)	<i>H. parvifolium</i>
	<i>H. aggregatum</i> X <i>Anaphalis</i> sp.
	(unc)
<i>G. antipoda</i> X <i>G. sp.(unnamed)</i>	<i>H. coralloides</i> X <i>H. parvifolium</i>
	(unc)
<i>Hebe anomala</i> (unc)	<i>Kunzea ericoides</i> agg.
<i>H. carnosula</i>	
<i>H. cheesemanii</i>	<i>Leptospermum scoparium</i> var.
<i>H. decumbens</i>	<i>Leucopogon fascicularis</i>
<i>H. epacridea</i> var.	<i>L. fraseri</i> s.s.
<i>H. gracillima</i>	<i>L. suaveolens</i> (incl. <i>Gathodes colensoi</i> )
<i>H. haastii</i> var. (aff. var. <i>humilis</i> )	<i>Melicytus alpinus</i> ss.
(unc)	
<i>H. lycopodioides</i> (unc)	<i>M. sp.(unnamed; aff. M.</i> <i>alpinus)</i> ( <i>rhizomatous</i> low-growing shrubs with recurved, spinous branch- es and narrowly linear-ob- lanceolate lvs) (unc)
<i>H. salicifolia</i> var. <i>salicifolia</i>	
<i>H. venustula</i> (incl. <i>H. brachysiphon</i> )	
<i>H. vernicosa</i>	<i>M. crassifolius</i> var. (erect shrubs,
<i>H. sp.(i)</i> (unnamed; aff. <i>H. rigidula</i> )	upto 1m tall) (unc)
(lvs glaucous beneath, conspic- uously boat-shaped, widest above mid-point)	<i>Myrsine divaricata</i> ss.
	<i>M. nummularia</i>
	<i>Olearia arborescens</i> (unc)
	<i>O. avicenniifolia</i> (unc)
	<i>O. cymbifolia</i> (unc)
	<i>O. odotata</i>

*Pentachondra pumila*  
*Petaxilla tetrapetala* (unc)  
*Pimelea sericeovillosa*  
*P. suteri* var. (*P. oreophila*)

*Pittosporum anomalum*  
*P. divaricatum*  
*Pseudopanax anomalous*

## FERNS

*Asplenium flabellifolium* agg.  
*A. flaccidum*  
*A. hookerianum* (unc)  
*A. richardii*  
*A. feitestre* ssp. *terrestre*  
*A. sp.* (unnamed; aff. *A. trichomanes*)  
*Blechnum chambersii* (unc)  
*B. fluviatile* agg.  
*B. minus*  
*B. pennata-mariae*  
*B. procerum*  
*B. vulcanicum*  
*B. sp.* (common lowland  
sp.; lower pinnae reduced in  
length) (unc)

*Muehlenbeckia australis*  
*M. axillaris*  
*M. complexa*  
*M. australis* X *M. complexa* (unc)  
*Parsenia capsularis* var.  
*Rubus cissoides* var. (leaflets  
broader than in var. *cissoides*)  
*R. schmidellicoides* var. sub-  
pauperatus

*Botrychium australe* (unc)  
*Cheilanthes humilis* (unc)  
*Cyathea smithii* (unc)  
*Cystopteris tasmanica*  
*Grammitis billardierei*  
*G. magellanica* ssp. *nothofageti* (unc)  
*G. patagonica*  
*G. poeppigiana*

*Histiopteris incisa* (unc)  
*Hymenophyllum multifidum*  
*H. peltatum* (unc)  
*H. ratum* (unc)  
*H. villosum*

## LYCOPODES AND QUILLWORTS

*Lycopodium australianum*  
*L. fastigiatum*  
*L. scariosum* (unc)  
*L. vartum* (incl. *L. billardierei* and  
*L. novae-zelandicum*) (unc)  
*L. volubile*  
*Isoetes alpinus* (unc)

GRASSES

- |   |  |
|---|--|
| <i>Hypolepis ambigua</i>                  | <i>Agrostis muelleriana</i>  |
| <i>H. millefolium</i>                     | <i>A. sp. (unnamed; aff. A.</i>  |
| <i>H. tufobarbata (unc)</i>               | <i>dyeri) (panicle spreading, not</i><br><i>contracted as in A. dyeri)</i> |
| <br>                                      |  |
| <i>Leptopteris hymenophylloides (unc)</i> | <i>Chionochloa australis</i>   |
| <i>Ophioglossum coriaceum agg.</i>        | <i>C. conspicua ssp. conspicua (unc)</i>                                   |
| <i>Pellaea calidirupium (unc)</i>         | <i>C. pallens ssp.</i>   |
| <i>P. rotundifolia</i>                    |  |
| <br>                                      |  |
| <i>Polystichum cystostegia</i>            | <i>C. sp. (unnamed) (C. flavesans</i>                                      |
| <i>P. richardii</i>                       | <i>avct. South Island, non C.f. Zotov)</i>                                 |
| <i>P. vestitum</i>                        | <i>Cortaderia richardii (unc)</i>  |
| <i>Pteridium esculentum</i>               | <i>Doxouxia aucklandica (unc)</i>  |
| <i>Pyrosia eleagnifolia</i>               | <i>D. avenoides (incl. D.a. var.</i><br><i>brachyantha)</i>                |
| <br>                                      | <i>Dichelachne crinita</i>   |

ORCHIDS

- |                                       |   |
|---------------------------------------|---|
| <i>Caladenia carneae agg.</i>         |   |
| <i>Chiloglottis cornuta</i>           | <i>Elymus enysii</i>                        |
| <i>Corybas macranthus (unc)</i>       | <i>E. narduroides (unc)</i>                 |
| <i>C. trilobus s.s.</i>               | <i>E. sp. (aff. E. rectisetus)</i>          |
| <br>                                  |   |
| <i>Gastroleia cunninghamii (unc)</i>  | <i>Festuca sp. (i) (F. matthewsii</i>       |
| <i>G. minor (unc)</i>                 | <i>sensu Connor 1968)</i>                   |
| <i>Microtis oligantha (unc)</i>       | <i>F. sp. (ii) (unnamed; aff. F. rubra)</i> |
| <i>M. unifolia</i>                    | <i>Hierochloe redolens</i>                  |
| <i>Piasophyllum colensoi</i>          | <i>Koeleria chaesemanii</i>                 |
| <i>Pterostylis australis</i>          | <i>K. sp. (K. novoglandica agg.)</i>        |
| <i>P. tristis (unc)</i>               | <i>(lvs flat)</i>                           |
| <i>P. sp. (cf. P. graminea and P.</i> | <i>Lachnagrostis sp. (unnamed;</i>          |
| <i>itsoniana) (unc)</i>               | <i>included in L. filiformis, as</i>        |
| <i>Thelymitra hatchii (unc)</i>       | <i>var. semi-glabra, by Zotov 1965)</i>     |
| <i>T. longifolia</i>                  | <i>Microlaena stipoides</i>                 |

<i>Poa breviglumis</i>	<i>C. flagellifera</i>
<i>P.buchananii</i>	<i>C. forsteri</i> (unc)
<i>P.cita</i> ssp. <i>cita</i>	<i>C.gaudichaudiana</i> (unc)
<i>P.colensoi</i>	<i>C.goyenii</i>
<i>P.dipsacea</i>	<i>C.inversa</i>
<i>P.imbecilla</i>	<i>C.petiti</i>
<i>P.lindsayi</i>	<i>C.pyrenaica</i> var. <i>cephalotes</i>
<i>P.subvestita</i> (unc)	<i>C.secta</i> s.s.
<i>P.sp.</i> (unnamed; aff. <i>P.novae-zelandiae</i> )	<i>C.sinclairii</i>
<i>Rytidosperma australe</i>	<i>C.solandri</i> (unc)
<i>R.buchananii</i>	<i>C.wakatipu</i> s.s.
<i>R.clavatum</i>	<i>C.sp.</i> (cf. <i>C.coriacea</i> and <i>C.geminata</i> )
<i>R.gracile</i>	<i>Fleocharis acuta</i>
<i>R.setifolium</i>	<i>Isolepis aucklandica</i>
<i>R.unirede</i>	<i>I.habta</i>
<i>Trisetum youngii</i>	<i>I.pottsii</i>
<i>T.sp.(i)(unnamed)</i> (plants slender; if sheath glabrous, or nearly so)	<i>Oreobolus pectinatus</i> (unc)
<i>T.sp. or spp.</i> (undetermined)	<i>Schoenus pauciflorus</i> s.s.
	<i>Uncinia clavata</i>
	<i>U.divaricata</i>
	<i>U.drucei</i> (unc)
	<i>U.fuscovaginata</i> (both glaucous and green-leaved forms)
	<i>U.longifluctus</i>
	<i>U.silvestris</i> (incl. <i>U.affinis</i> )
	<i>U.stictissima</i> (Martin 1938)
	<i>U.uncinata</i>
	<i>U.sp.(unnamed)</i> ( <i>U.affinis</i> sensu Hamlin 1959, non <i>U. riparia</i> var. <i>affinis</i> Cd. ex Clarke) (unc)

### SEDGES

<i>Carex acicularis</i>	
<i>C.breviculmis</i>	
<i>C.comans</i>	
<i>C.dissita</i> s.s.	
	<i>U.sp.(unnamed)</i> ( <i>U.affinis</i> sensu Hamlin 1959, non <i>U. riparia</i> var. <i>affinis</i> Cd. ex Clarke) (unc)

## COMPOSITE HERBS

### RUSHES

*Juncus australis*  
*J. distegus*  
*J. gregiflorus*  
*J. novae-zelandiae*  
*J. pallidus*  
*J. pusillus*  
*J. sarophotus*  
*Luzula migrata*  
*L. picta* s.s.  
*L. pumila*  
*L. rufa* s.s.  
*L. subclavata*  
*L. traversii* s.s.  
*L. sp.(i)* (unnamed; included in  
*L. picta*, as var. *limosca*, by  
 Edgar 1966)  
*L. sp.(ii)* (unnamed; included in  
*L. crinita*, as var. *petricana*, by  
 Edgar 1966)  
*L. sp.(iii)* (unnamed) (shortly stolon-  
 iferous; infl. a single, compact  
 head, smaller than in *L. rufa* s.s.;  
 tepals with central brown stripe  
 and broad, pale margins)  
*L. migrata* × *L. rufa*  
*Marsippospetnum gracile*

*Anaphalis* sp. (*Helichrysum ballidioides*)  
*Brachyglottis lagopus* var. *lagopus*  
*Brachyscome radicata* (unc)  
  
*B. sinclairii* s.s.  
*Celmisia cockayneana* (unc)  
  
*C. incana* (incl. *C. discolor*) (unc)  
*C. latifolia*  
*C. monroi* ssp. *monroi*  
*C. sessiliflora*  
*C. sinclairii* (incl. *C. allanii* + *C. turietzii*)  
*C. spectabilis* ssp. *spectabilis*  
*C. traversii*  
*C. sp.* (unnamed; aff. *C. gracilenta*)  
 (plants strongly rhizomatous)  
*C. monroi* × *C. traversii* (unc)  
*C. sessiliflora* × *C. traversii*  
 (unc)  
*C. spectabilis* × *C. traversii* (unc)  
  
*Craspedia* sp.(i) (unnamed;  
 included in *C. lanata*, as  
 var. *elongata*, by Allan 1961)  
 (lvs white or greenish-white,  
 both surfaces clad in cottony  
 hairs; fls white) (unc)  
*C. sp.(ii)* (unnamed) (lvs pale  
 green, both surfaces densely  
 clad in short hairs upto 0.15  
 mm long; lf margins white  
 with cottony hairs; fls yellow) (unc)

### MONOCOT HERBS OTHER THAN /

ORCHIDS, GRASSES, SEDGES, RUSHES  
*Arthropodium candidum* (unc)  
*Lamna* sp. (*L. minor* avct.)  
*Phormium cookianum*

*C. sp. (ii) (unnamed)* (lvs green,  
both surfaces sparsely clad in  
short hairs, some glandular, or al-  
most glabrous; cottony hairs on lf  
margins inconspicuous or absent;  
fls white)

*Dolichoglottis lyallii*

*Ewartia sinclairii* (unc)

*Gnaphalium avadax*

*G. limosum* s.s.

*G. mackayi* s.s.

*G. wahinicum*

*G. sphaeticum* (unc)

*G. traversii*

*Haastia pulvinaris* s.s.

*H. recurva* (unc)

*Helichrysum filicaule*

*Leptinella dendyi*

*L. pectinata* (Martin 1932, as  
*cotula pectinata*)

*L. pyrethriifolia* s.s.

*L. sp.* (unnamed; included in *L.*  
*squalida*, as ssp. *mediana*, by  
Lloyd and Webb, 1987)

*Lagenifera barkeri* (unc)

*L. cuneata*

*L. pumila*

*L. strangulata*

*Leucogenes* sp. (unnamed; aff.  
*L. leontopodium*)

*Microseris scapigera* var.  
<sup>unnamed</sup>

*Pseudognaphalium* sp. (aff. *P.*  
*luteoalbum*) (mountain sp.; lvs  
mostly oblong spatulate to  
narrowly oblong, rounded)

*Raoulia australis* agg.

*R. bryoides*

*R. eximia* var. *eximia*

*R. glabra*

*R. grandiflora* var. *grandiflora*

*R. montoi* (Martin 1932)

*R. subsericea*

*R. tenuicaulis* (incl. *R. t.* var. *di-*  
*morpha* and *R. t.* var. *pusilla*)

*R. bryoides* × *R. eximia* (unc)

*R. glabra* × *Helichrysum bellid-*  
*oides* (unc)

*Senecio quadridentatus*

*S. Waitauensis*

*Taraxacum magellanicum*

*Vittadinia australis* agg.

#### DICOT HERBS OTHER THAN

##### COMPOSITES

*Acaena anserinifolia*

*A. caesioglaucha*

*A. fissistipula*

*A. glabra* (unc)

*A. inermis*

*A. juvenca*

*A. profundeincisa*

*A. saccaticupula*

*A. anserinifolia* × *A. inermis*

*Aciphylla acetea*

*A. mentoi*

*A. polita* var. *polita* (unc)

*A. sp.* (unnamed; aff. *A. glauca* s.c.-  
ans)

<i>Anisotome aromatica</i>	<i>E. elegans</i> (unc)
<i>A.filifolia</i>	<i>E. glabellum</i> s.s.
<i>A.pilifera</i> (unc)	<i>E. insulare</i>
<i>Cardamine bilobata</i> (unc)	<i>E. komarovianum</i> (unc)
<i>Cardamine sp.(i) (C.debilis agg.)</i> ("Narrow Petal" of Pritchard 1957)	<i>E.ktrileanum</i>
<i>C.sp.(ii)(C.debilis agg.) ("Long Style"</i> of Pritchard 1957)	<i>E. linnaeoides</i>
<i>C.sp.(iii)(C.debilis agg.) (capsules minutely hairy)</i>	<i>E.macropus</i>
<i>C.sp.(iv)(unnamed) ("Scree Race" of Pritchard 1957)</i>	<i>E.melanocaulon</i>
<i>Cheesemania fastigiata</i>	<i>E.microphyllum</i>
<i>Chionochebe pulvinaris</i>	<i>E.nastatooides</i>
<i>Colobanthus acicularis</i>	<i>E.nummulariifolium</i>
<i>C.apetalus</i> (incl. <i>C.a. var. alpinus</i> )	<i>E.petnitans</i> (unc)
<i>C.buchananic</i>	<i>E.pictum</i>
<i>C.strictus</i>	<i>E.porphyrium</i>
<i>Crassula sinclairii</i> (unc)	<i>E.pubens</i>
<i>C.tetramera</i>	<i>E.pycnostachyum</i>
<i>Epilobium attiplicifolium</i> s.s.	<i>E.rotundifolium</i>
<i>E.brunnescens</i> s.s.	<i>E.tasmanicum</i>
<i>E.chionanthum</i> (unc)	<i>E.tenuipes</i> s.s.
<i>E.chlorifolium</i>	<i>E.sp. (unnamed; included in <i>E.</i> <i>brunnescens</i>, as ssp. <i>minutiflorum</i>, by Raven and Engelhorn, 1971)</i>
<i>E.cineraceum</i>	<i>Euphrasia monroi</i>
	<i>E.sp. (unnamed; aff. <i>E.petrici</i>)</i>
	<i>Forstera tenella</i>
	<i>F.sp. (unnamed; aff. <i>F.sedifolia</i>)</i>
	<i>F.sp. (unnamed X <i>Phyllachne</i> <i>colensoi</i>)</i> (unc)
	<i>Galium perpusillum</i> ss
	<i>G.propinquum</i> (unc)
	<i>G.trilobum</i> (unc)
	<i>Gentiana bellidifolia</i>

- 10
- G. sp. (unnamed; included in *G. bellidifolia*, as var. *australis*, by Petrie in Cheeseman 1925) (unc)*  
*Geranium 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 montana*  
*Hydrocotyle heteromeria*  
*H. microphylla*  
*H. moschata*  
*H. sp. (unnamed; included in *H. novae-zelandiae*, as var.  
 montana, by Kirk 1899)*  
*Keileria sp. (cf. *K. villosa* & *K. diaffenbachii*)*  
*Lignocarpa diversifolia*  
*Lobelia roughii*  
*Montia fontana* s.s.  
*Myosotis forsteri*  
*M. tenerrima* (unc)  
*M. travescens* s.s. (unc)  
  
*M. sp. (i) (unnamed; included in *M. pygmaea*, as var. *drucei*, by Moore 1961)*  
*M. sp. (ii) (*M. austalis* agg.) (fls yellow)*  
*M. sp. (iii) (*M. austalis* agg.) (*M. saxatilis* Petrie 1918, non *M. Saxatilis* Pallas 1795) (fls white)*  
*Myriophyllum triphyllum*  
*Neopaxia sp. (incl. *Montia calycina* and *Claytonia australasica* var. *biflora*)*  
*Nepicra sp. (glaucous) (unc)*  
*Nototlaspi austroless. (incl. *N. resolutum*)*  
*Oreomyrrhis colensoi* s.s. (incl.  
 O.c. var. *hispida* and O.c. var.  
*multifida*)  
*O. ramosa* agg.  
*O. Higida* (unc)  
*Oritisia caespitosa* ssp. *caespitosa*  
*O. simpsonii*  
  
*Oxalis magellanica*  
*Parahabea cheesemanii*  
*P. decora*  
*P. lyallii* (unc)  
*Phyllachne colensoi* var.  
*Plantago lanigera* s.l. (incl. *P. n.z.*)  
*P. taoulii*  
*P. uniflora*  
*Pratia angulata* agg.  
*P. macrodon* s.s.  
*Psychrophila obtusa*  
*Ranunculus cheesemanii* var. *cheesemanii*  
*R. crithmifolius* ssp.  
*R. foliosus*  
*R. glabratifolius*  
*R. gracilipes*  
*R. insignis*  
*R. reflexus*.

<i>R. sp.</i> (unnamed; included in <i>R. lappaceus</i> , as var. <i>mucronatus</i> , by Kirk 1899)	<i>S. roughii</i> (unc) <i>Urtica incisa</i>
<i>Rumex flexuosus</i> (unc)	<i>Viola cunninghamii</i>
<i>Schizolema nitens</i>	<i>Wahlenbergia albomarginata</i> var. <i>albomarginata</i> (incl. <i>W. pygmaea</i> , <i>W. blackiei</i> , and <i>W. simpsonii</i> )
<i>S. pallidum</i>	<i>W. cartilaginea</i> (unc)
<i>S. roughii</i> (unc)	<i>W. rupestris</i>
<i>Scleranthus blackiei</i> (unc)	
<i>S. uniflorus</i>	
<i>Stellaria decipiens</i> (incl. <i>S. parviflora</i> )	
<i>S. gracilenta</i>	

No. of species: 409.

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