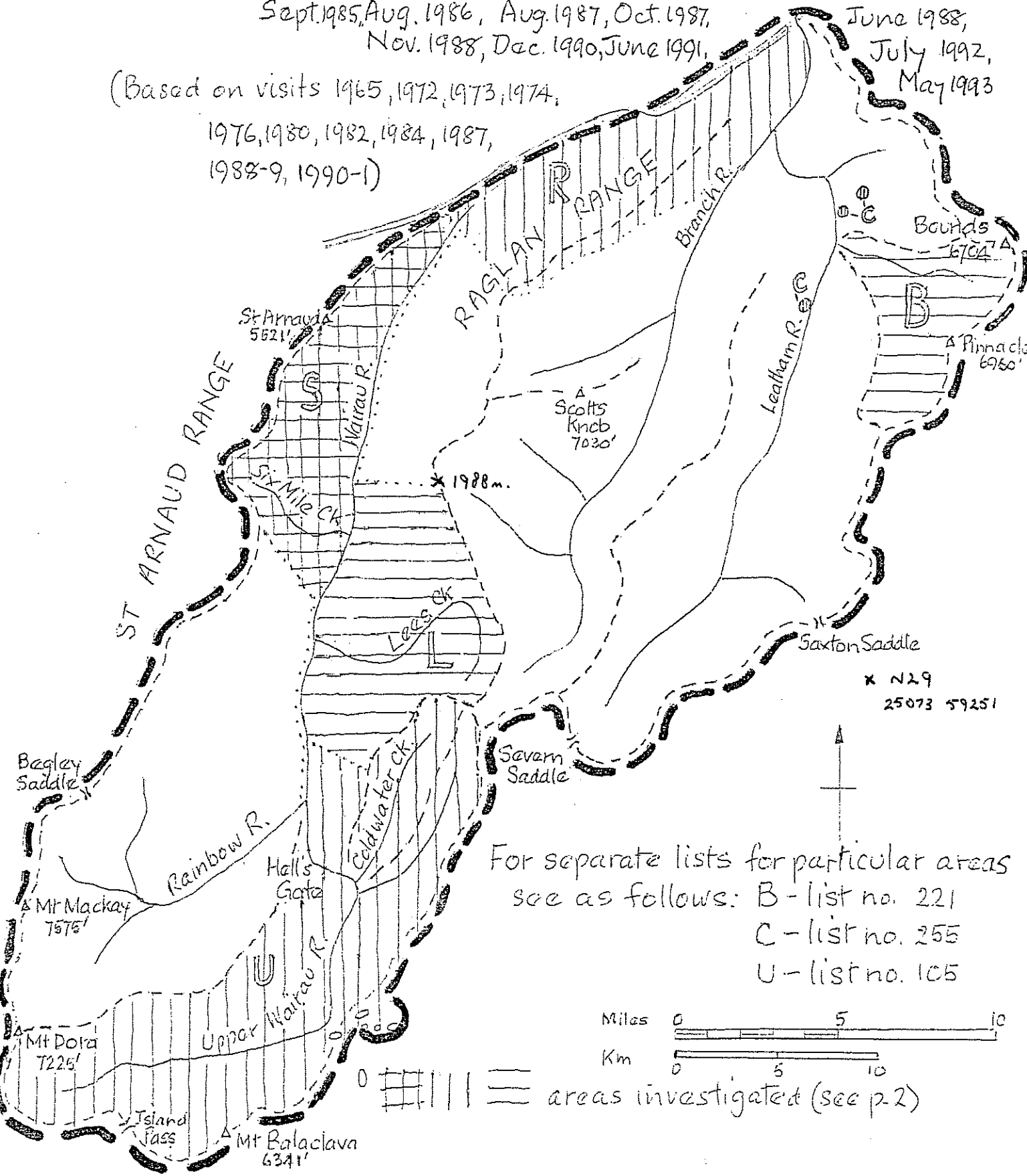


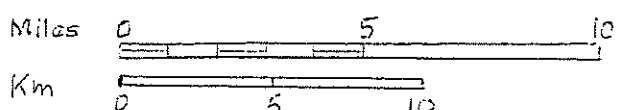
INDIGENOUS VASCULAR PLANTS OF UPPER WAIRAU AND BRANCH RIVER CATCHMENTS, S.E. OF THE ALPINE FAULT, 1500-7600 FT

A.P. Druce, Botany Division, D.S.I.R., July 1974
(Revised July 1975, Aug. 1976, May 1977, June 1978,
May 1979, Feb. 1980, June 1980, Aug. 1983, July 1984, July 1985,
Sept. 1985, Aug. 1986, Aug. 1987, Oct. 1987,
Nov. 1988, Dec. 1990, June 1991,
June 1988, July 1992, May 1993)

(Based on visits 1965, 1972, 1973, 1974,
1976, 1980, 1982, 1984, 1987,
1988-9, 1990-1)



For separate lists for particular areas
see as follows: B - list no. 221
C - list no. 255
U - list no. 105



Legend: [Hatched patterns] = areas investigated (see p.2)

B - Bounds-Pinnacle area

C - Calcareous areas in
Leatham V.

L - Lees V. area

R - Raglan Ra. (N. end) area

S - St Arnaud Ra. (N. end) area

U - Upper Waitrau V. (Waitrau-Rainbow
forks to Island Pass) area

INDIGENOUS PLANTS

GYMNOSPERM TREES AND SHRUBS

Dactyctenium dactyloides (S)

Halocarpus bidwillii (U)

H. biflorus (S)

Libocedrus bidwillii (S)

Phyllocladus alpinus s.s. (BLRSU)

Podocarpus hallii (LRS)

P. nivalis (BLRSU)

P. hallii x *P. nivalis* (BLS)

Prumnopitys taxifolia

P. sp. (unnamed; included in *P. colensoi*, as var. *ternatus* and as var. *fiordensis*, by Wardle 1968) (LRSU)

Sophora microphylla (BCLRS)

DICOT SHRUBS

Alepis flavida (L)

Aristotelia fruticosa var. (BCLSU)

A. f. x *A. serrata* (R)

Brachyglottis adamsii (Martin 1938, as *Senecio adamsii*) (R)

B. bidwillii var. *viridis* (BLSU)

B. cassinioides (U)

B. greyi var. (*B. laxifolius*) (SU)

B. montoi var. *montoi* (incl. *B. m.* var. *elongatus*) (U)

Brotundifolia var. (incl. *B. bueharianii* and *B. cockaynei*) (B, S)

Carmichaelia sp. (subgenus *Carmichaelia*) (CLR)

C. contigata (R)

MONOCOT TREES

Cordyline australis (R)

DICOT TREES

Carpodetus serratus (BCLRS)

Elaeocarpus hookerianus (BLRS)

Fuchsia excorticata (BCLRSU)

Griselinia littoralis (BCLRSU)

Hoheria lyallii s.l. (L, U)

Lophomyrtus obcordata (R)

Melicope lanceolata (incl. *M. l.* var. *latior*) (S)

Nothofagus fusca (BLRS)

N. menziesii (LS)

N. solandri var. *cliffortioides* (BLRSU)

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

Pittosporum patulum (BLSU)

P. tenuifolium ssp. *tenuifolium* (BCLRU)

Pseudopanax colensoi s.s. (BCLR)

P. crassifolium (BLRS)

P. ferox (R)

P. simplex (incl. *P. s.* var. *sinclairii*) (BLS)

Cassinia vauvilliersii (BCLRSU)

Coprosma acerosa ssp. (R)

- C. atropurpurea* (BLRSU)
C. niphophila (U)
C. cheesemani s.s. (BLRSU)
C. ciliata ssp. (BLSU)
C. colensoi s.s. (BLS)
C. crassifolia (CR)
C. depressa (LSU)
C. foetidissima (S)
C. linariifolia (BCLRSU)
C. lucida s.s. (R)
C. microcarpa (BLRSU)
C. perpusilla ssp. *perpusilla* (BRLSU)
C. potterii (U)
C. propinqua ssp. *propinqua*
 (BCLRSU)
C. pseudocuneata ssp. (BLSU)
C. thamnoides (incl. *C. polymorpha*) (BLRSU)
C. rigida (BR)
C. robusta (R)
C. rugosa ssp. *rugosa* (L)
C. sp. (i) (unnamed; included in *C. parviflora* by Oliver, 1935, and others) (leaf undersurface not minutely hairy as is usual in *C. parviflora*; drupes us unpigmented, occ. purplish red) (BLRSU)
C. sp. (ii) (unnamed) (*C. parviflora* var. *dumosa* sensu Allan 1961, non *C. p.* var. *dumosa* Cheeseman) (BS)
C. sp. (iii) (unnamed; aff. *C. pseudocuneata*) (low-growing shrubs with small, thick, arcuate lvs) (BLRSU)
C. propinqua X *C. robusta* (LR)
Cotaria angustissima (LU)
C. arborea (R)
C. plumosa (RS)
C. sarmentosa (BLRU)
C. angustissima X *C. sarmentosa*
 (U)
C. plumosa X *C. sarmentosa* (RS)
Cotokia cetonaster var. *cetonaster* (BCLRU)
Cyathodes dealbata (incl. *C. punila*) (S)
C. empetrifolia (R)
C. sp. (*C. juniperina* agg.) (lvs us. < 1cm X < 1mm) (BCLRSU)
Discaria tomatou (BCRU)
Dracophyllum longifolium var. (incl. *D. filifolium* and *D. oliveri*) (BR)
D. pronum (BLRSU)
D. uniflorum (BLRSU)
D. longifolium X *D. uniflorum* (BU)
D. pronum X *D. uniflorum* (RU)
Exocarpos bidwillii (LU)
Gaultheria antipoda (BLRSU)
G. crassa (BLRSU)
G. depressa s.s. (S)
G. sp. (unnamed; included in *G. depressa*, as var. *novae-zelandiae*, by Franklin 1962) (BLRSU)
G. nubicola (LSU)
G. macrostigma (RU)
G. antipoda X *G. macrostigma* (L)
G. a. X *G. sp.* (unnamed) (BR)
G. crassa X *G. nubicola* (S)
G. c. X *G. macrostigma* (U)
G. c. X *G. sp.* (unnamed) (SU)

- G. macrostigma X G. sp. (unnamed) (U)
- Hebe anomala (BSU)
- H. armstrongii (?) (see Moore 1961) (U)
- H. canterburyensis (LRSU)
- H. carnosula (BLRS)
- H. cheesemanni (BLRSU)
- H. ciliolata (Martin 1932, as Veronica ciliolata) (R)
- H. cockayneana (U)
- H. cupressoides (Cheeseman, 1882 & 1925, as Veronica cupressoides) (U)
- H. decumbens (BLRSU)
- H. epactidea var. epactidea (BSU)
- H. gracillima (BCL)
- H. haastii var. (H. ramosissima) (BLSU)
- H. lycopodioides (BLRSU)
- H. macrantha var. brachyphylla (LSU)
- H. paucitamosa (LSU)
- H. pimeleoides s.s. (incl. H. p. var. minor) (U)
- H. pinguiifolia (U)
- H. rakaiensis and/or H. subalpina (U)
- H. rupicola (Cheeseman 1925, as Veronica rupicola)
- H. salicifolia var. salicifolia (BLRSU)
- H. salicornioides (Cheeseman 1925 and Martin 1932, as Veron-salicornioides) (RU)
- H. tetragona var. (L. coarctata) (S)
- H. traversii (R)
- H. tumida (L, S, U)
- H. venustola (incl. H. brachysiphon) (BCLRSU)
- H. vernicosa (BLRSU)
- H. sp. (i) (Veronica squalida) (R)
- H. sp. (ii) (unnamed; included in H. raoulii, as var. pentasepala, by Moore 1961) (BCU)
- H. sp. (iii) (unnamed; aff. H. rigidula) (lvs glaucous beneath, conspicuously boat-shaped, widest above mid-point) (BLRSU)
- H. gracillima X H. salicifolia
- H. paucitamosa X H. tetragona (S)
- Helictysum aggregatum var. aggregatum (BLR)
- H. coralloides (B)
- H. depressum (BLU)
- H. intermedium var. (C)
- H. parvifolium (BLRSU)
- H. sp. (aff. H. corall.) (fls creamy) (LRSU)
- H. aggregatum X H. sp. (aff. H. corall.) (L)
- H. aggregatum X Anaphalis sp. (BL)
- H. coralloides X H. parvifolium (B)
- H. depressum X H. parvifolium (U)
- H. parvifolium X H. sp. (aff. H. corall.) (L)
- H. p. X Raoulia glabra (?) (U)
- Korthalsella clavata (c)
- K. clavata (c)
- K. salicornioides (R)
- Kunzea ericoides agg. (BCLRSU)
- Leptospermum scoparium var. (BRSU)
- Leucopogon fasciculatus^{var.} (BRS)
- L. fraseri s.s. (BCLRSU)
- L. suaveolens (incl. Cyathodes colensoi) (BLRSU)
- L. sp. (unnamed; included in L. fraseri, as var. muscosus, by Simpson 1945) (RU)

Melicope simplex (C)
Melicytus alpinus s.s. (BCLRSU)
M. crassifolius var. (erect shrubs,
up to 1m tall) (B)
M. sp. (unnamed; aff. M. alpinus)
(low-growing ^{thymylos} shrubs with re-
curved, spinous branches and
narrowly linear-lanceolate
lvs) (BU)

Myrsine divaricata s.s. (BCLRSU)
M. nummulata (BLRSU)
Neomyrtus pedunculata (S)
Olearia arborescens (BLRU)
O. avicennifolia (BCLRSU)
O. cymbifolia (BLRU)
O. odorata (BCU)
O. serpentina (R)
Pentachondria pumila (BLRSU)
Peraxilla tetrapetala (BL)
Pimelea concinna (Allan 1961) (U)
P. oreophila (BCLRSU)
P. prostrata (LR)
P. sericeovillosa (BU)
P. traversii (U)
Pittosporum anomalum (BLSU)
P. divaricatum (BLSU)
Pseudopanax anomalus (BLR)
Pseudowintera colorata (S)
Traversia baccharoides (
T. b. X Brachyglottis lagopus (S)
Urtica ferox (C)

DICOT LIANES AND RELATED

TRAILING PLANTS

Calystegia tugatorum (BC)

Clematis forsteri (BCLRSU)

C. marata (RU)
C. quadribracteolata
Muehlenbeckia australis (BCLRSU)
M. axillaris (BCLRSU)
M. complexa (BLR)
M. australis X M. axillaris (L)
M. a. X M. complexa (B)
Parsonsia capsularis var. (BLR)
P. heterophylla (CR)
Rubus cissoides var. (fls broader
than in var. cissoides) (BCLRSU)
R. schmidelioides var. subpauper-
atus (BCLRS)
R. cissoides X R. schmidelioides (R)

LYCOPODS

Lycopodium australianum (BLRSU)
L. fastigiatum (BCLRSU)
L. scariosum (B)
L. vatium (incl. L. billardierei and
L. novae-zelandicum) (BLS)
L. volubile (B)

QUILLWORTS

Isoetes alpinus (BS)
I. kirkii (U)

FERNS

Asplenium flabellifolium agg. (BCLRU)
A. flaccidum (BLRS)
A. gracillimum (R)
A. hookerianum (BCLRS)
A. lyallii (C)
A. richardii (BCLSU)
A. terrestre ssp. terrestre (BCLR)
A. sp. (unnamed; aff. A. trichomanes)
(BCLRU)

A. hookerianum X A. terrestris (R)

Azolla-filiculoides (R)

Blechnum chambersii (BCL)

B. discolor (RS)

B. fluviatile agg. (BR)

B. minus (BLR)

B. penna-marina (BCLRSU)

B. procerum (BLS)

B. vulcanicum (BL)

B. sp. (i) (unnamed) (common lowland sp.; lower pinnae reduced in length) (B)

B. sp. (ii) (unnamed) (mountain sp.; lower pinnae not reduced in length) ("The Dunedin-Cass Variety" of Crookes 1963) (LU)

Botrychium australe (B)

Cheilanthes humilis (BR)

Ctenopteris heterophylla

Cyathea smithii (B)

Cystopteris tasmanica (BCLSU)

Grammitis billardierei (BLRS)

G. magellanica ssp. nothofageti (BLS)

G. patagonica (BLU)

G. paeppigiana (BLRSU)

Histiopteris incisa (BLSU)

Hymenophyllum multifidum (BLRSU)

H. minimum (S)

H. peltatum (B)

H. ratum (BL)

H. sanguinolentum agg. (L)

H. villosum (BLRSU)

Hypolepis ambigua (B)

H. millefolium (BLSU)

H. rufo-barbata (BLRU)

G. sp. (unnamed) (B)

Leptopteris hymenophylloides (B)

Ophioglossum coriaceum agg. (BLU)

Pellaea caliditupium (BR)

P. rotundifolia (BCR)

Phymatosorus pustulatus (CR)

Pilularia novae-zelandiae (U)

Polystichum cystostegia (BLSU)

P. richardii (BCR)

P. vestitum (BCLRSU)

Pteridium esculentum (BCLRSU)

Pyttosia eleagnifolia (BCR)

ORCHIDS

Adenochilus gracilis (LS)

Aporostylis bifolia (SU)

Caladenia carnea agg. (B)

C. lyallii (R)

Chiloglottis cornuta (BLS)

Corybas macranthus (BLS)

C. rivularis s.s.

C. trilobus s.s. (BCLS)

Gastrodia cunninghamii (BLS)

G. minor (B)

Microtis oligantha (BR)

M. unifolia (BRSU)

Prasophyllum colensoi (BLRU)

Pterostylis australis (BCL)

P. graminea (B?)

P. itsoniana (B?)

P. tristis (B)

P. sp. (aff. P. cyenocephala) } one or other sp (U)

Thelymitra formosa (RU)

T. hatchii (BU)

T. longifolia (BRS)

GRASSES

Agrostis muelleriana (BLRSU)

A. muscosa (LU)

A. personata (LSU)

A. sp. (unnamed; aff. *A. dyeri*)
(panicle spreading, not contracted as in *A. dyeri*) (BLRSU)

Australopyrum sp. (unnamed) (C)

Chionochloa australis (BLRSU)

C. conspicua ssp. conspicua (BL)

C. macra (U)

C. oreophila (U)

C. pallens ssp. (BLRSU)

C. tubra ssp. (SU)

C. sp. (unnamed) (*C. flavescens* auct. South Island, non *C. flavescens* Zotov) (BLRSU)

C. australis x *C. pallens*

C. oreophila x *C. pallens* (U)

C. pallens x *C. sp.* (unnamed) (L)

C. tubra x *C. sp.* (unnamed) (U)

Cortaderia richardii (BLRS)

Deschampsia novae-zelandiae (SU)

D. tenella (LS)

Deyeuxia aucklandica (BLU)

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

Dichelachne chinita (BCLRSU)

Echinopogon ovatus (C)

Elymus anysii (BLSU)

E. multiflorus (C)

E. narduroides (BCL)

E. sp. (i) (aff. *E. tectisetus*) (plants ± glaucous; lf blade flat) (SLU)

E. sp. (ii) (unnamed; aff. *E. tectisetus*) (lf blade flat to rolled) (BCLRU)

Festuca novae-zelandiae (CRU)

F. multinodis

F. sp. (i) (unnamed; aff. *F. tubra*) (BLSU)

F. sp. (ii) (*F. matthewsii* sensu Connor 1968) (BLRSU)

Hierochloa equisetata (U)

H. novae-zelandiae (LSU)

H. recurvata (Zotov 1973) (U)

H. redolens (BLR)

Koeleria cheesemani (BLRSU)

K. sp. (i) (*K. novo-zelandica* agg.) (plants tufted; lvs up to 3mm wide, flat) (BCLRSU)

K. sp. (ii) (*K. novozelandica* agg.) (plants slender, rhizomatous; lvs up to 1.5mm wide) (LSU)

Lachnagrostis filiformis ss.

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

Microlaena colensoi s.s. (LRSU)

M. stipoides (BCRS)

Poa breviglumis (BLRSU)

P. buchananii (BLSU)

P. cita ssp. cita (BCLRSU)

- P. colensoi* (BCLRSU)
- P. dipsacea* (BLSU)
- P. imbecilla* (BCLRSU)
- P. kirkii* (LSU)
- P. lindsayi* (BLRSU)
- P. maia* (LS)
- P. pusilla* (LS)
- P. subvestita* (BLSU)
- P. sp. (unnamed; aff. P. novae-zeel.)* (BLRSU)
- Rytidosperma australe* (BSU)
- R. buchananii* (BU)
- R. clavatum* (BCRSU)
- R. gracile* (BCLRSU)
- R. pumilum* (BLU)
- R. setifolium* (BLRSU)
- R. tenue* (U)
- R. unarede* (BR)
- Trisetum youngii* (LSU)
- T. sp. (i)* (*T. spicatum* agg.) (BLU)
- T. sp. (ii)* (unnamed) (plants slender; lf sheath vs. glabrous; lf blade up to 2.5mm wide, margins smooth) (BCLSU)
- T. sp. (iii)* (unnamed; aff. *T. antarcticum*) (plants robust; lf sheath hairy in lower part; lf blade up to 7mm wide, margins scabrid)
- T. sp. (iv)* (unnamed; included in *T. antarcticum*, as ssp. *tenellum*, by Petrie 1912)

- C. capillacea* (RU)
- C. carsei* (U)
- C. cockayneana* (U)
- C. colensoi* (RU)
- C. comans* (BLRSU)
- C. coriacea* (BLRSU)
- C. diandra* (U)
- C. dipsacea* var. *dipsacea* (R)
- C. dissita* s.s. (BLRS)
- C. echinata* var. (*C. stellulata* var. *australis*) (SU)
- C. enysii* (LU)
- C. fasciculata* (R)
- C. flagellifera* (BRU)
- C. flaviformis* (U)
- C. forsteti* (BR)
- C. gaudichaudiana* (BRSU)
- C. goyenii* (BLRSU)
- C. inopinata* (R)
- C. inversa* (BLR)
- C. kaloides* (LRU)
- C. maotica*
- C. muelleri* (L?, U)
- C. petrici* (BLSU)
- C. pyrenaica* var. *cephalotes* (BLSU)
- C. taoulii* (R)
- C. resectans* (U)
- C. secta* s.s. (BLRU)
- C. sinclairii* (BSU)
- C. solandri* (BR)
- C. testacea* s.s.
- C. virgata* (R)
- C. wakatipu* s.s. (BLRSU)
- C. sp. (unnamed; aff. C. testacea)* (lvs vs. reddish; utricle margins not scabrid) (L)

C. echinata X *C. sp.* (*C. secta* or *C. virgata*)

SEDGES

- Baumea rubiginosa* (R)
- B. tenax* (R)
- Carex acicularis* (BLS)
- C. berggrenii* (U)
- C. breviculmis* (B)
- C. buchananii* (LR)

RUSHES AND ALLIED PLANTS

- Carpha alpina s.s. (LSU)
- Eleocharis acuta (BLRU)
- E. gracilis (RU)
- E. pusilla (U)
- Isoplepis Aucklandica (BLSU)

- I. basilatis (U)
- I. caliginis (U)
- I. habira (BLSU)
- I. pottsii (B)
- I. subtilissima (LRU)
- Lepidosperma australe (R)
- Oreobolus pectinatus (BLSU)
- Schoenus pauciflorus s.s. (BLRSU)
- Uncinia caespitosa (L)
- U. clavata (BLSU)
- U. divaricata (BLRSU)
- U. ducei (BL)
- U. ferruginea (S)
- U. fuscovaginata var. (BLRSU)

- U. laxiflora (C?)
- U. leptostachya (R)
- U. longifructus (BL)
- U. nervosa s.s. (SU)

- U. rubra (LU)
- U. rupestris (incl. U. angustifolia) (LS)
- U. scabra (RS)
- U. silvestris (incl. U. affinis) (BL)
- U. sinclairii (R)
- U. strictissima (Martin 1938) (B)
- U. uncinata (BLS)
- U. sp. (unnamed) (U. affinis sensu Hamlin 1959, non U. hiparia var. affinis Col. ex Clarke; see Nootboom 1978) (B)

- Centrolepis ciliata (U)
- Gaimardia setacea (Chaeseman 1882) (U)
- Juncus antarcticus (LRU)
- J. australis (BR)
- J. distegus (B)
- J. gregiflorus (BRS)
- J. novae-zelandiae (BLRSU)
- J. pallidus (B)
- J. planifolius
- J. pusillus (BL)
- J. sarophorus (BR)

- Luzula colensoi (S)
- L. leptophylla (U)
- L. migrata (BLSU)
- L. picta s.s. (BLR)
- L. pumila (BLRSU)
- L. rufa s.s. (BLRSU)
- L. subclavata (BLU)
- L. traversii s.s. (BLRSU)
- L. sp. (i) (unnamed; included in L. crinita, as var. petrieana, by Edgar 1966) (BLSU)
- L. sp. (ii) (unnamed; included in L. rufa, as var. albicomans, by Edgar 1966) (LU)
- L. sp. (iii) (unnamed; included in L. picta, as var. limesa, by Edgar 1966) (BLSU)
- L. sp. (iv) (unnamed; aff. L. rufa) (plants stoloniferous; infl. head smaller than in L. rufa) (BLRU)
- L. sp. (v) (unnamed?)
- L. colensoi x L. migrata (S)
- L. migrata x L. rufa (B)
- Marsippospermum gracile (BLSU)

MONOCOT HERBS OTHER THAN

ORCHIDS, GRASSES, SEDGES, RUSHES,

AND ALLIED PLANTS

- Aithropodium candidum* (BCL)
- Astelia fragrans* (R)
- A. graminea* (S)
- A. nervosa* s.s. (LSU)
- A. petrici* (LSU)
- Bulbinella hookeri* (RSU)
- Dianella nigra* (R)
- Lemna* sp. (*L. minor* auct.) (BLRU)
- Libertia ixioides* (LR)
- Phormium cookianum* (BCLRSU)
- P. tenax* (R)
- Potamogeton cheesemanii* (RSU)
- P. ochreatus* (U)
- P. suboblongus* (U)
- Typha orientalis* (RU)

COMPOSITE HERBS

- Abrotanella caespitosa* (S)
- Anaphalis* sp. (*Helichthysumbellidioides* s.s.) (BLRSU)
- Brachyglottis bellidioides* s.s. (U)
- B. lagopus* var. *lagopus* (BLRSU)
- Brachycome radicata* (BLSU)
- B. sinclairii* s.s. (BLRSU)
- Celmisia alpina* s.s. (LSU)
- C. bellidioides* (LSU)
- C. cockayneana* (B)
- C. gracilentata* ssp. (LRSU)
- C. haastii* ssp. *haastii* (U)
- C. incana* (incl. *C. discolor*) (BLRSU)
- C. latifolia* (BLRSU)
- C. lateralis* (incl. *C. l.* var. *villosa*) (LSU)

- C. montroi* ssp. *montroi* (BCLRSU)
- C. m.* ssp. (*C. semicordata* ssp. *semicordata*) (U)
- C. sessiliflora* (BLSU)
- C. sinclairii* (incl. *C. allanii* and *C. dumetzi*) (BLRSU)
- C. spectabilis* ssp. *spectabilis* (BLRSU)
- C. traversii* (BR)
- C. viscosa* (U)
- C. sp.* (unnamed; aff. *C. gracilentata*) (plants strongly rhizomatous) (BLRSU)
- C. montroi* X *C. spectabilis* (U)
- C. m.* X *C. traversii* (B)

- C. sessiliflora* X *C. spectabilis* (U)
- C. s.* X *C. traversii* (BR)
- C. spectabilis* X *C. traversii* (BR)
- Leptinella dandyi* (BLRU)
- L. dioica* ssp. *dioica* (SU)
- L. pectinata* (Martin 1932, as *Cotula pect.*)
- L. pyrethri* folia agg. (BLSU)
- L. pusilla* (U)
- L. serrulata* (Lloyd 1972, as *Cotula serrulata*) (R)
- L. sp.* (i) (unnamed) (lvs dimpled) (L? SU)
- L. sp.* (ii) (unnamed) (pinnae entire) (S)
- L. sp.* (iii) (unnamed; included in *L. squalida*, as ssp. *mediana*, by Lloyd & Webb, 1987) (BLRSU)
- L. dandyi* X *L. pyrethri* folia (U)

(insert *Leptinella* on p. 11)

Craspedia lanata ss. (U)

C. sp(i) (unnamed; included in *C. lanata*, as var. *elongata*, by Allan 1961) (BLSU)

C. sp(ii) (unnamed) (plants summer-green; lvs green, both surfaces densely clad in multicellular non-glandular hairs with cottony tips, over short glandular hairs; margins \pm white with cottony hairs; fls white) (LSU)

C. sp(iii) (unnamed) (plants summer-green; lvs green, both surfaces clad in short glandular hairs or almost glabrous; margins \pm faintly white with cottony hairs; fls white) (BLU)

C. sp(iv) (unnamed) (aff. *C. sp.iii*, but lvs smaller and narrower) (U - dried-up tarn)

C. sp(v) (unnamed) (lvs pale green, both surfaces densely clad in short hairs up to 0.15 mm long; margins white with cottony hairs; fls yellow) (BC)

C. lanata X *C. sp(iii)* (U)

Dolichoglossis lyallii (BLSU)

Ewartia sinclairii (B)

Gnaphalium audax (BLRSU)

G. ensifer

G. gymnocephalum (S)

G. involucreatum

G. laterale (LSU)

G. limosum s.s. (BRSU)

G. mackayi s.s. (BLRSU)

G. nitidulum (U)

G. paludosum (LS)

G. polylepis (U)

G. ruahnicum (BL)

G. sphaericum (BU)

G. travetsii (BLU)

G. mackayi X *G. nitidulum* (U)

Haastia pulvinaris ss. (BLSU)

H. recurva (BLU)

H. sinclairii s.s. (SU)

Helichthysum filicaule (BCLRSU)

Lagenifera barkeri s.s. (BLSU)

L. cuneata (BRU)

L. petiolata (LU)

L. pinnatifida (LRS)

L. pumila (BLRS)

L. strangulata (BLRSU)

Leptinella (see p. 10)

Leucogenes grandiceps (LSU)

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

- Microseris scapigera* ^{var.} (BLSU)
Pseudognaphalium sp. (i) (unnamed; aff. *P. luteoalbum*) (lvs mostly linear-spathulate to linear, acute) (LRS)
P. sp. (ii) (unnamed; aff. *P. luteoalbum*) (lvs mostly oblong-spathulate to narrowly oblong, rounded; involueral bracts light brown) (BLU)
P. sp. (iii) (plants small, depressed, much branched, grey) (U)*
Racoula apicinigra s.s. (U)
R. australis agg. (BLRSU)
R. bryoides (BLRSU)
R. eximia var. *eximia* (BLRSU)
R. glabra (BLRSU)
R. grandiflora var. *grandiflora* (BLRSU)
R. hookeri s.s. (U)
R. monroi (Martin 1932) (B)
R. parkii (LU)
R. subsericea (BLRSU)
R. subulata (U)
R. tenuicaulis (incl. *R. t.* var. *dimorpha* and *R. t.* var. *pusilla*) (BLRSU)
R. sp. (unnamed) (stems forming open patches; lvs rigid, recurved, subacute; upper surface grey-green, lower white) (LU)
R. bryoides X *R. eximia* (BR)
R. b. X *Leucogenes* sp. (unnamed) (R)
R. glabra X *Anaphalis* sp. (*Heli-chrysium bellidioides* s.s.) (B)
Senecio dunedinensis (R)
S. glaucophyllus ssp. (aff. ssp. *foa*) (CLU)
- S. hispidulus*
S. minimus (S)
S. quadridentatus (BC)
S. waitavensis (BLSU)
Taraxacum magellanicum (BLSU)
Vittadinia australis agg. (CLRU)
- DICOT HERBS OTHER THAN COMPOSITES
- Acaena auserinifolia* (BLRSU)
A. caesiiglauca (BRU)
A. dumicola (CSU)
A. fissistipula (BLSU)
A. glabra (BU)
A. inermis (BLRSU)
A. juvenca (BLRSU)
A. profundeincisa (BLRSU)
A. saccaticupula (BU)
- A. sp.* (ii) (unnamed) (U)
A. auserinifolia X *A. inermis* (BLU)
Aciphylla aurea (BC? LRSU)
A. colensoi var. *colensoi* (LS)
A. monroi (BLRSU)
A. polita var. *polita* (BRS)
A. subflabellata (U)
Asp. (i) (unnamed; aff. *A. glaucescens*) (BLRSU)
Anisotome aromatica (BLRSU)
A. filifolia (BLRSU)
A. flexuosa (S)
A. pilifera (BLSU)
A. sp. (unnamed; included in *A. imbricata*, as var. *prostrata*, by Dawson 1961) (U)

* (= *G. luteoalbum* var. *compactum*)

A. filifolia X Aciphylla sp. (unnamed)
(L)

Callitriche petrici ssp. petrici (LU)

Cardamine bilobata (BLU)

C. sp. (i) (C. debilis agg.) ("Narrow
Petal" of Pritchard 1957) (BCLRU)

C. sp. (ii) (unnamed) ("Scree Race" of
Pritchard 1957) (BLRSU)

C. sp. (iii) (aff. C. corymbosa) (RU)

C. sp. (iv) (unnamed; aff. C. corymbosa)
(plants small; stems and petioles
clad in hispid hairs; lvs simple or
pinnate; fls up to 2 mm diam. solitary;
siliques c. 1 cm long) (U)

C. sp. (v) (C. debilis agg.) (cf. "Long
Style" of Pritchard 1957) (BLSU)

C. sp. (vi) (C. debilis agg.) (capsules
minutely hairy) (BL)

C. sp. (vii) (C. debilis agg.) (L)

C. sp. (viii) (C. debilis agg.) ("Glossy Leaf"
of Pritchard 1957) (LU)

Centella uniflora (RU)

Cheesemania fastigiata (BLRSU)

Chionochebe pulvinaris (BLRSU)

Colobanthus aciculatus (BRSU)

C. apetalus (incl. C. a. var. alpinus)
(BLRSU)

C. buchananii s.s. (BLRSU)

C. strictus (BU)

Crassula multicaulis (R)

C. sinclairii (BRSU)

C. tetramera (BCR)

Daucus glochidiatus (R)

Dichondra repens var. (R)

D. sp. (i) (unnamed) (plants slender; fls
small, 4-5 mm diam.) (CR)

D. sp. (ii) (cf. D. brevifolia) (R)

Diosera auctori (LSU)

D. peltata ssp. auriculata (Martini
1938, as D. auriculata) (R)

Elatine gratioides (RU)

Epilobium alsinoides s.s. (RSU)

E. angustum (U)

E. atypicalifolium s.s. (BLRSU)

E. breupes (Cheeseman 1925) (U)

E. brunnescens s.s. (LSU)

E. chionanthum (BU)

E. chlorifolium (BLSU)

E. cinereum (BRS)

E. cocharyneanum (LSU)

E. crassum (LSU)

E. elegans (BU)

E. forbesii (U)

E. glabellum s.s. (BLRSU)

E. hectorii s.s. (U)

E. insulare (BLRU)

E. komarovianum (BRSU)

E. krulleanum (BU)

E. linnaeoides (B)

E. macropus (BLRSU)

E. melanceaulon (BLRSU)

E. microphyllum (BLRSU)

E. norterioides (BLRSU)

E. nummularifolium (BCLR)

E. pedunculare s.s. (SL)

- E. pernitens* (BLS)
E. pictum (BL)
E. porphyrium (BLSU)
E. pubens (BCLRSU)
E. pycnostachyum (BLRSU)
E. rotundifolium (BR)
E. rubromarginatum (S)
E. tasmanicum (BLRSU)
E. tenuipes s.s. (BRU)
E. vernicosum (C)
E. sp.(i)(unnamed; included in *E. brunnescens*, as ssp. *minutiflorum*, by Raven and Engellhorn, 1971) (BLRSU)
E. sp.(ii)(unnamed; aff. *E. glabellum*) lvs broader than in *E. glabellum*, very glossy; capsules vs. glabrous rarely with erect non-gland. hairs (U)
Euphrasia laingii (LU)
E. montoi (BR S?)
E. zelandica agg. (RU)
E. sp.(unnamed; aff. *E. patrici*) (BLRSU)
Forstera tenella (BLRSU)
F. sp.(unnamed; aff. *F. sedifolia*) (BLRSU) (RSU)
F. sp.(unn.) X *Phyllachne colensoi* (B)
Galium perpusillum s.s. (BLRSU)
G. propinquum (BLRU?)
G. trilobum (BCRU?)
G. sp.(unnamed; aff. *G. perpusillum*) (plants forming moss-like tufts; lvs narrowly elliptic, rounded to subacute)
Gentiana bellidifolia agg. (BLSU)
G. corymbifera s.s. (LSU)
G. divisa (near Saxton Saddle)
G. grisebachii (U)
G. sp.(i)(unnamed; aff. *G. montana*) (plants vs. biennial, occ. perenn-ial, much branched from the base) (LRSU)
G. sp.(ii)(unnamed; included in *G. bellidifolia*, as var. *australis*, by Patrie in Cheeseman 1925) (LSU)
G. sp.(unnamed; aff. *G. Geranium microphyllum*) (BCLRSU)
G. potentilloides var. *potentilloides* (R)
G. sessiliflorum var. *novae-zelandicae* (BCLRSU)
Geum leiospermum (U)
G. sp. (*G. parviflorum* agg.) (stock short; terminal leaflet about as long as broad; fls up to 13mm diam.) (BLRSU)
Gingidia decipiens (U)
G. montana (BCLRSU)
Glossostigma diandrum (U)
G. elatinooides
Gonocarpus aggregatus (LU)
G. micranthus ssp. *micranthus* (RSU)
G. montanus (R)
Gradiola sexdentata (R)
Gunnera dentata var. *dentata* (R)
Haloragis erecta ssp. *erecta* (CR)
Hydrocotyle elongata (L)
H. heteromeria (BLRSU)
H. microphylla (BLRSU)
H. moschata (BLRS)
H. sulcata (RU)

- H.sp. (unnamed; included in H. novae-zeelandiae, as var. montana, by Kirk 1899) (BLRSU)
- H. sulcata X H.sp. (?) (RU)
- Hypericum japonicum agg. (RU)
- Hypsela rivalis (U)
- Ischnocarpus novae-zeelandiae (Hooker 1864-7 and Cheeseman 1925, as Sisymbrium novae-zeelandiae; Allan 1961) (U)
- Kelleria croizatii (LU)
- K. dieffenbachii (B?, LRU)
- K. laxa (SU)
- K. multiflora (R)
- K. villosa var. villosa (B?, RSU)
- (Neopaxia sp. (incl. Montia calycina and Claytonia australasica var. biflora) (BLRSU)
- Lignocarpa carnosula (Cheeseman 1882, as Ligusticum carnosulum; 1925, as Anisotome carnosula) (U)
- L. diversifolia (BLU)
- Lilaeopsis ruthiana (RU)
- Linocella lineata agg. (RSU)
- Linum monogynum (R)
- Lobelia roughii (BLSU)
- Mazus radicans (LU)
- Mentha cunninghamii (LRU)
- Montia fontana s.s. (BLRSU)
- Myosotis angustata (Cheeseman 1925) (R)
- M. forsteri (BLS)
- M. laingii (Cheeseman 1925) (U)
- M. lyallii (incl. M. elderti) (L)
- M. macrantha (LU)
- M. teneticaulis (BCL)
- M. traversii var. traversii (BLSU)
- M.sp.(i) (M. australis agg.) (M. saxatilis Petrie 1918, non M. saxatilis Pallas 1795) (fls white) (BRU)
- M.sp.(ii) (M. australis agg.) (fls yellow) (BLU)
- M.sp.(iii) (M. australis agg.) (fls small, white) (L)
- M.sp.(iv) (unnamed; included in M. pygmaea, as var. drucei, by Moore 1961) (BLS)
- Myriophyllum pedunculatum ssp. novae-zeelandiae (U)
- M. propinquum (RU)
- M. triphyllum (BRSU)
- M. vetschii (U)
- Nettaria balfouriana (SU)
- N. ciliata (S)
- N. depressa (incl. N. cunninghamii) (R)
- N. setulosa (RU)
- N. sp. (unnamed; aff. N. dichondrifolia) (hairs present on both surfaces of lf, straight, not hooked as in N. dichondrifolia) (BLS)
- Notothlaspi australe s.s.* (BLRSU)
- Oreomyrrhis colensoi s.s. (incl. O. c. var. hispida and O. c. var. multifida) (BLRSU)
- O. ramosa agg. (BCLRSU)
- O. rigida (BLR)
- O.sp.(i) (unnamed; included in O. colensoi, as var. delicatula, by Allan 1961) (U)
- O.sp.(ii) (unnamed) (bog plants) (U)

*(incl. N. rosulatum)

- Oreostylidium subulatum (Cheeseman 1882) (U)
- Ourisia caespitosa ssp. caespitosa (BLRSU)
- O. lactea ssp. lactea (LSU)
- O. simpsonii (BLSU)
- Oxalis exilis (LRSU)
- O. magellanica (BLRSU)
- Parakebe cheesemaii (BLS)
- P. decora (BLRSU)
- P. linifolia ssp. linifolia (U)
- P. lyallii (BLSU)
- P. decora x P. lyallii (L?U)
- Parietaria debilis (C)
- Phyllachne colensei var. (BLRSU)
- Plantago lanigera (BLSU)
- P. laouli (BLU)
- P. spathulata ssp. spathulata (C)
- P. triandra s.s. (RU)
- P. uniflora (BSU)
- Potentilla anserinoides (RU)
- Pratia angulata agg. (BLRSU)
- P. macrodon s.s. (BLRSU)
- Psychrophila novae-zealandiae
- P. obtusa (BLSU)
- Ranunculus brevis (U)
- R. cheesemaii var. cheesemaii (BLRSU)
- R. crithmifolius ssp. crithmifolius (BU)
- R. foliosus (BLSU)
- R. gracilipes (BLSU)
- R. haastii (Cheeseman 1882) (Wairau V.)
- R. insignis (BLRSU)
- R. limosella (U)
- R. macropus (R)
- R. membranifolius (LS)
- R. multiscapus s.s. (R)
- R. reflexus (BCLRS)
- R. verticillatus (LRSU)
- R. sp. (unnamed; included in R. lappaceus, as var. macrophyllus, by Kirk 1899) (BLU)
- R. insignis x R. verticillatus (S)
- R. crithmifolius x R. gracilipes (Fisher 1965) (U)
- R. foliosus x R. glabri-folius (U)
- R. gracilipes x R. insignis (LSU)
- Rotippa palustris (R)
- Rumex flexuosus (BLRU)
- Schizaelema nitens (B)
- S. pallidum (BLSU)
- S. roughii (BCLRSU)
- S. trifoliolatum (U)
- Scleranthus brockeyi (BSU)
- S. uniflorus (BCLRSU)
- Stackhousia minima (LRU)
- Stellaria decipiens (incl. S. parviflora) (BLRSU)
- S. gracilentata (BLRU)
- S. roughii (BLU)
- Urtica incisa (BCLS)
- Utricularia novae-zealandiae (U)
- Viola cunninghamii (BCLRSU)
- V. lyallii (LS)
- R. glabri-folius (LRU)

Wahlenbergia albomarginata
 var. *albomarginata* (incl. *W. pyg-*
maea var. *laxa*, *W. brockiei*,
 and *W. simpsonii*) (BCLRSU)
W. cartilaginea (BU)
W. tupastris (BLR)

No. of spp.: 721.

DOUBTFUL AND ERRONEOUS RECORDS

<u>Record</u>	<u>Probable identity of plant on which record based</u>
<i>Acaena adscendans</i> (Cheeseman 1882)	
<i>Agrostis parviflora</i> (Cheeseman 1882)	<i>Agrostis personata</i>
<i>Cardamine depressa</i> (Cheeseman 1882, 1925)	
<i>Carex devia</i> (Cheeseman 1925)	
<i>Chionochloa flavescens</i> (Wraight 1963)	<i>Chionochloa</i> sp. (unnamed)
<i>C. rigida</i> (Wraight 1963)	<i>C. rubra</i>
<i>Edmisia cordatifolia</i> var. <i>brockettii</i> (type loc. Bounds)	(status uncertain)
<i>Colobanthus wallii</i> (Cheeseman, 1882 and 1925, as <i>C. quitensis</i>)	
<i>Coprosma parviflora</i> (Manson & Guest, 1975)	<i>Coprosma</i> sp. (i) (unnamed)
<i>Dracophyllum rosinatiniifolium</i> (Cheese- man 1882)	<i>Dracophyllum prorum</i>
<i>Epilobium confertifolium</i> (Cheeseman 1882)	
<i>E. wilsonii</i> (Martin 1938, as <i>E. chlort-</i> <i>folium</i> var. <i>kaikourense</i> ?)	
<i>Cheesemania latisiliqua</i> (Cheeseman 1882, as <i>Cardamine latisiliqua</i> , and 1925, as <i>Nasturtium latisiliqua</i> ; Allan 1961)	

Geum uniflorum (Wraight 1963)

Hebe rigidula (Cheeseman 1925, as
Veronica rigidula)

H. tetrasticha (Cheeseman 1882, as
Veronica tetrasticha)

Kelleria lyallii (Cheeseman, 1882 and
1925, as *Drapetes lyallii*)

→ *Leucogenes leontopodium* (Kirk 1899, as
Helichrysum leont.; Cheeseman 1925)

Myosotis laeta (Cheeseman 1925)

M. pulvinaris (Martin 1932)

M. pygmaea (Martin 1932)

M. saxosa (Cheeseman 1882)

Oursia colensoi (Cheeseman 1882)

O. glandulosa (Martin 1938)

Pittosporum rigidum (Martin 1938)

Plantago triantha (Cheeseman 1882,
as *P. brownii*)

Ranunculus lyallii (Wraight 1963)

R. nivicola (Martin 1932)

R. pinguis (Cheeseman 1882)

R. subscaposus? (Cheeseman 1882)

Trisetum antarcticum (Wraight 1963)

Uncinia filiformis (Manson and
Guest, 1975)

Geum sp. (*G. parvifolium* agg.)

Hebe sp. (iii) (unnamed)

Kelleria eroizatii

Leucogenes sp. (unnamed)

Myosotis sp. (iv) (unnamed)

Oursia lactea

Plantago lanigera

Ranunculus insignis

Trisetum sp. (unnamed)

→ *Leptinella* sp. (Cheeseman 1925,
and others, as *Cetula linearifolia*)

(Raglan Ra. locality probably
in error)

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