

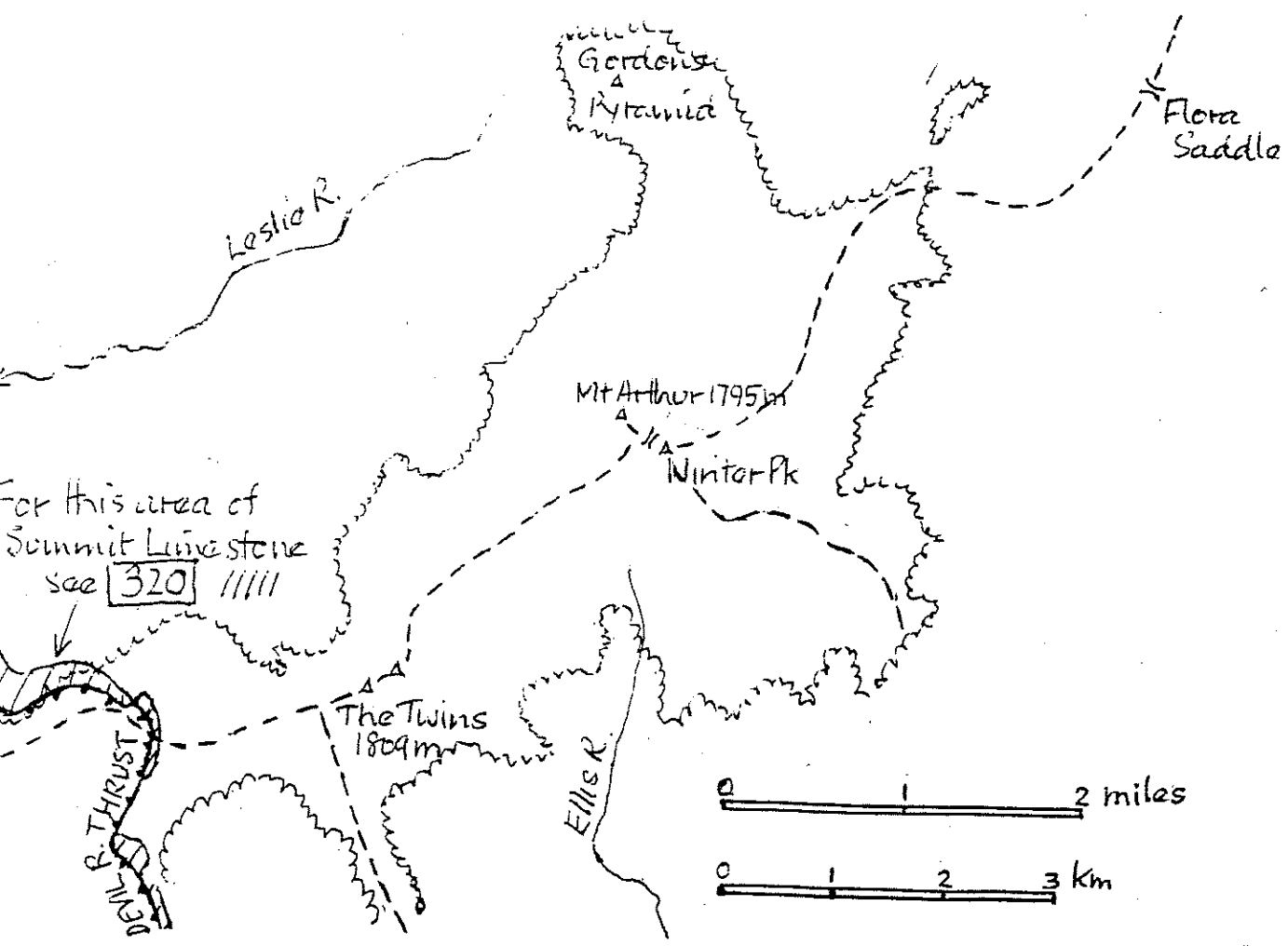
HIGHER PLANTS (LYCOPODS, FERNS, GYMNOSPERMS, FLOWERING PLANTS) OF MT ARTHUR¹ AND THE TWINS², ARTHUR RA., N.W. NELSON, 1150-1809 M (NE. OF DEVIL R. THRUST)

→ ¹Ghd ref. NZMS1 S13 083371
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A.P. Druce, Botany Division, D.S.I.R.; May 1982
(revised Sept. 1982, March 1983, May 1983, June 1984,
April 1985, July 1985, Dec. 1985, June 1986, Aug. 1986,
June 1987, Oct. 1987, June 1988, Sept. 1990, July 1991, Aug. 1992,
March 1993)

(Based on visits April 1963, Jan 1975, Jan 1982, Feb. 1991)

Principal rocks: crystalline limestone and marble (Arthur Marble)
calcareous argillite grading into graphitic schist
(Wangapeke Formation)



M - on limestone and marble
 A - on argillite and schist
 unc - uncommon or local

INDIGENOUS PLANTS

GYMNOSPERM TREES AND SHRUBS

Lepidothamnus laxifolius (A)
Libocedrus bidwillii (unc A)
Phyllocladus alpinus agg. (M, A)
Podocarpus nivalis (M, A)
P. hallii X *P. nivalis* (unc A)

B. rotundifolia var. (incl. *B. bicharanii* & *B. cochaynei*) (unc A)
B. bidwillii X *B. rotundifolia* (unc A)
Cassinia vauvilliersii (M, A)

Coprosma atropurpurea (M)

C. cheesemani ss (M, A)

C. ciliata ssp. *ciliata* (M, A)

C. ctenulata (A)

C. depressa (M, A)

C. foetidissima (A)

C. parviflora ssp. *parviflora* (M, A)

C. propinqua ssp. *propinqua* (M)

C. pseudocuneata ssp. (lvs narrower than in ssp. *pseudocuneata*) (M, A)

C. serrulata (A)

C. sp. (i) (unnamed) (prostrate shrubs, lvs plano-convex, linear; drupes orange) (M)

C. sp. (ii) (unnamed; aff. *C. pseudocuneata*) (low-growing shrubs with small, thick, arcuate lvs) (M, A)

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

C. sp. (iv) (unnamed; aff. *C. colensoi*) (low-growing shrubs with trailing branches) (A)

DICOT TREES

Dracophyllum traversii (incl. *D. pyramidale*) (M, A)

Griselinia littoralis (M, A)

Nothofagus menziesii (M, A)

N. solandri var. *cliffortiioides* (A)

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

P. sp. (unnamed; included in *P. cledensei*, as var. *ternatus* and as var. *fiordensis*, by Wardle 1968) (unc M, unc A)

DICOT SHRUBS

Atcheria traversii (incl. *A. t.* var. *australis*) (unc A)

Aristolelia fruticosa var. (M, A)

Brachyglottis adamsii (Cheeseman 1884, as *Senecio pachyphyllus*)

B. bidwillii var. *viridis* (M, A)

B. grayi var. (*B. laxifolia*) (M)

- C. cheesemarii X C. ciliata (unc A)
- C. propinqua X C. robusta (unc M)
- Cotiana plumosa (unc M, unc A)
- Corokia cotoneaster var. (plants prostrate) (unc M)
- Cyathodes dealbata (incl. C. pumila) (M, A)
- C. empetrifolia (M, A)
- Dracophyllum longifolium var. (incl. D. filifolium and D. olivati) (M, A)
- D. pubescens var. pubescens (unc M, A)
- D. uniflorum (M, A)
- D. sp. (unnamed; aff. D. kirku) (low-growing shrubs; branches often rooting; infl. of few-fld racemes) (M)
- Epacris alpina (M)
- Exocarpus bidwillii (M)
- Gaultheria depressa s.s. (M, A)
- G. sp. (unnamed; included in G. depressa, as var. novae-zelandiae, by Franklin 1962) (M, A)
- G. crassa X G. sp. (unnamed) (unc A)
- G. nobiloides (M)
- Hebe albicans var. albicans (M)
- H. canterburiansis (M, A)
- H. ciliolata
- H. cochayneana var. (M, A)
- H. haastii var. (aff. var. humilis; see Moore 1961, p. 946) (M)
- H. macrantha var. brachyphylla (M, A)
- H. ochracea (M)
- H. tetragona var. (H. coarctata) (M, A)
- H. topiaria (M, A)
- H. vernicosa (M, A)
- H. sp. (i) (H. paveziramosa var. masoniae) (M, A)
- H. sp. (ii) (unnamed) (lvs up to 4 x 1 cm, elliptic-oblong, bright green; upper surface very glossy; corolla tube very short, = or < calyx; corolla lobes obtuse; capsule pubescent) (unc M)
- Helichrysum intermedium var. (M)
- Leucopogon fraseri s.s. (M, A)
- L. suaveolens (incl. Cyathodes colensoi) (M, A)
- Meliclytus sp. (unnamed) (M, A)
- Myrsine divaricata s.s. (M, A)
- M. nummularia (M, A)
- Olearia avicenniiifolia (M)
- O. colensoi var. colensoi (unc A)
- O. lacunosa var. lacunosa (M, A)
- O. nummulariifolia var. (lvs distinctly longer than broad, rather than suborbicular as in var. nummulariifolia) (M, A)
- O. arborescens X O. lacunosa (unc M)
- Pentachondra pumila (M, A)
- Pinidea oreophila (M, A)
- Pittosporum anomalum (M)

Traversia baccharoides (M)

DICOT LIANES AND RELATED

TRAILING PLANTS

Clematis forsteri (M)

Muehlenbeckia axillaris (M)

LYCOPODS

Lycopodium australlianum (M)

L. fastigiatum (M, A)

L. scariosum (M, A)

L. varium (incl. *L. billardierei*
and *L. novae-zelandicum*)

FERNS

Asplenium flaccidum

A. lyallii (M)

A. sp. (unnamed; aff. *A. trichomanes*) (M)

Blechnum discolor (unc M - in
sinkhole)

B. fluviatile agg. (A)

B. penna-marina (M, A)

B. procerum (A)

B. sp. (unnamed) (mountain sp.;
lower pinnae not reduced in

length) ("The Dunedin-Cass
Variety" of Crookes 1963) (A)

Cyathea colensoi (A)

Cystopteris tasmanica (M)

Grammitis billardierei

G. givenii (A)

G. magellanica ssp. *nothofageti*

G. patagonica (M)

G. poeppigiana (M, A)

Hymenophyllum malingii (Mason
1949)

H. villosum

Hypolepis millefolium (M, A)

Leptopteris superba (M)

Ophioglossum coriaceum (M)

Polystichum cystostegia (M)

P. vestitum (M, A)

ORCHIDS

Adenochilus gracilis (A)

Aporestylis bifolia (M, A)

Caladenia lyallii (M)

Chiloglottis cornuta (M, A)

Corybas macranthus (M, A)

C. trilobus s.s. (M, A)

Prasophyllum colensoi (M, A)

Pterostylis australis (M)

P. humilis (M, A)

P. oliveri (M, A)

P. sp. (unnamed; aff. *P. cycnocephala*) (unc M)

Thelymitra hatchii (M)

GRASSES

Agrostis dyeri s.s. (M, A)

A. muelleriana (unc M)

A. parsonata (unc M)

A. sp. (unnamed; aff. *A. dyeri*)
(panicle spreading, not con-
tracted as in *A. dyeri*)

- Chionochloa australis* (M,A)
C. conspicua ssp. *conspicua* (M,A)
C. pallens ssp. *pallens* (M,A)
- C. tubra* ssp. *occulta* (A)
C. sp. (unnamed) (*C. flavescens* auct. S.I., non *C. flavescens* Zetov) (M,A)
- Deschampsia novae-zelandiae* (unc A)
D. tenella (M,A)
Deyeuxia aucklandica (unc M,A)
Elymus sp. (aff. *E. rectisetus*) (plants glaucous; awns 4-6 cm long) (M,A)
- Festuca* sp. (aff. *F. matthewsii*) (tufted, but not tussock-forming, glaucous) (M,A)
- Hierochloa novae-zelandiae* (M,A)
H. recurvata (M)
- Koeleria cheesemani* (unc M)
- Lachnagrostis lyallii* s.s. (incl. *L. filiformis* var. *semiglabra*) (M)
- Mierolaena colensoi* s.s. (M,A)
- Poa aciculatifolia* ssp. *aciculatifolia* (see Edgar 1986) (M)
- P. breviglumis* (M,A)
P. calsa (M,A)
P. cita spp. *cita* (A)
- P. colensoi* (M,A)
P. imbecilla (M)
P. kirkii (M,A)
- P. maia* (A)
P. pusilla (Buchanan 1880, as *P. anceps* var. *minima*)
P. subvestita (M)
- Rytidosperma australe* (unc A)
R. buchananii (A)
R. gracile (A)
R. setifolium (M,A)
- Simplicia buchananii* (M-type loc.)
- Trisetum youngii* (M,A)
T. sp. (i) (unnamed) (plants slender; sheath vs. glabrous; lf blade flat, margins smooth, vs. with a few hairs near ligule) (M,A)
- T. sp.* (ii) (unnamed) (included in *T. antarcticum*, as ssp. *tenellum*, by Petrie 1912) (M)
- T. sp.* (iii) (unnamed; aff. *T. antarcticum*) (lf blade flat; margins scabrid, vs. with a few hairs near ligule) (M)
- T. youngii* X *T. sp.* (ii) (?) (M)

SEDGES

- Carex aciculatis* (M)
C. colensoi (unc M)
C. comans (unc M)
C. echinata var. (*C. stellulata* var. *australis*) (M,A)
C. enysii (unc M)
C. gaudichaudiana (M)
C. kirkii (Cochayne and Allan, 1934)
C. libeta (M,A)
C. pyrenaica var. *cephalotes* (M)

- C. sinclairii (A)
- C. trachycarpa (M, unc A)
- C. wakatipu s.s. (M, A)
- C. sp.(i) (unnamed; aff. C. wakatipu)
(vs. smaller than C. wakatipu; spikes not closely packed, except in small plants; utricles dark brown to black) (M)
- C. sp.(ii) (unnamed) (style 3) (M)
- C. sp.(iii) (unnamed; aff. C. coriacea)
(lvs slender, bright green, not becoming stiff and yellow-green in exposed sites) (A)
- Carpha alpina ss (M, A)
- Isolepis archlandica (A)
- I. caligenis (A)
- Oreobolus impar (A)
- O. pectinatus (M, A)
- O. strictus (A)
- Schoenus pauciflorus s.s.
(“slender form” of Edgar 1970, p. 194)
- Uncinia caespitosa (M, A)
- U. clavata (A)
- U. divaricata (M, A)
- U. ducei (unc M)
- U. filiformis (M, A)
- U. fuscovaginata var. (plants glaucous) (M, A)
- U. involuta (A)
- U. nervosa s.s. (A)
- U. silvestris (incl. U. affinis)

U. sp. (unnamed) (U. affinis sensu Hamlin 1959, non U. riparia var. affinis Col. ex Clarke) (M, A)

RUSHES AND ALLIED PLANTS

- Juncus novae-zelandiae (M, A)
- Luzula colensoi (A)
- L. migrata (M, A)
- L. pumila (M)
- L. tufa s.s. (M)
- L. sp.(i) (unnamed; included in L. picta, as var. lutesca, by Edgar 1966) (M, A)
- L. sp.(ii) (unnamed; included in L. chinita, as var. petricana, by Edgar 1966) (M, A)
- Marsippospermum gracile (M, A)

MONOCOT HERBS OTHER THAN ORCHIDS, GRASSES, SEDGES, RUSHES AND ALLIED PLANTS

- Arthropodium candidum (M)
- Astelia graminea (M, A)
- A. linearis var. linearis (M, A)
- A. nervosa ss. (M, A)
- A. nivicola (M, A)
- A. petriei (M, A)
- A. skottsbergii (A)
- A. sp.(i) (unnamed; included in A. nivicola, as var. moriceae, by Moore 1966) (M, A)

A. sp(ii) (unnamed; aff. *A. nervosa*)
 (lvs broad, not conspicuously white
 adaxially as in *A. nervosa*) (M,A)
Bulbinella hookeri (M,A)
Libertia peregrinans (M,A)
Luzuriaga parviflora (M)
Phormium cookianum (M,A)

COMPOSITE HERBS

Abrotanella linearis s.s. (M,A)
Anaphalis sp. (*Helichrysum*
bellidioides s.s. (M,A)
Brachyglottis lagopus var. (cottony
 hairs on both surfaces of lf, dense
 at first, but becoming sparse) (M)
B. sp. (unnamed; included in *B.*
bellidioides, as var. *crassa*, by
 Nordenstam 1978) (A)
Brachyscome radicata (M,A)
B. sinclairii s.s. (M)
Celmisia bellidioides (M)
C. dallii (A)
C. gracilentata ssp. (unc M)
C. hieraciifolia ssp. (M)
C. incana (incl. *C. discolor*) (M,A)
C. laricifolia (M,A)
C. monroi ssp. (M,A)
C. sessiliflora (M,A)
C. spectabilis ssp. (M,A)
C. traversii (M,A)
C. sp(i) (aff. *C. gracilentata*) (plants
 strongly rhizomatous) (M)

C. sp(ii) (unnamed; aff. *C. gracilentata*)
 (plants tufted; lvs linear to linear-
 lanceolate; upper surface & margins
 thinly covered in tomentum; lower
 surface densely covered) (A)
C. sessiliflora x *C. spectabilis* (Given
 1984)

C. s. x *C. traversii* (unc M)

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

C. sp(ii) (unnamed) (plants summer-green;
 lvs up to 18cm long, green, with short
 broad petiole merging into lamina;
 both surfaces densely clad in short
 glandular hairs, with or without longer
 multicellular, non-glandular hairs with
 cottony tips; margins conspicuously
 white with cottony hairs; fls white) (A)

C. sp(iii) (unnamed) (plants summer-green,
 lvs green, both surfaces densely clad
 in short glandular hairs; margins
 ± white with cottony hairs; fls white) (M)

C. sp(iv) (plants summer-green; lvs green;
 both surfaces sparsely clad in multi-
 cellular, non-glandular hairs; midrib
 on under surface glabrous; fls white) (A)

C. sp(v) (unnamed) (plants summer-green;
 lvs green, both surfaces clad in multi-
 cellular, non-glandular hairs with
 cottony tips, over short glandular
 hairs; margins ± white with cottony
 hairs; fls white) (M,A)

Dolichoglottis scorzonetoides (A)

Gnaphalium mackayi s.s. (M,A)

G. wahuicum (M,A)

Helichrysum filicaule (M)

Lagenifera cuneata (A)
L. pinnatifida (M)
L. pumila (M)
L. strangulata (A)
L. petiolata (M)
Leptinella pyrethrifolia (M)

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

L. sp. (ii) (unnamed; aff. *L. squalida*)
(pinnæ entire or almost so) (A)

Leucogenes grandiceps (M, unca)

Microsetis scapigera var. (M, A)

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

Raoulia apicinigra s.s. (M)

R. eximia var. (A)

R. glabra (A)

R. grandiflora var. *grandiflora*
(A)

Senecio glaucophyllus ssp.
glaucophyllus (M)

S. waitauensis (M, A)

Taraxacum magellanicum (M, A)

A. ferox X *A. glaucescens* (unc)
A. ferox (M, A)
A. glaucescens s.s. (M, A)
A. polita var. (A)

Anemone tenicaulis (M, A)

Anisotome aromatica (M, A)

A. deltoidea (M, A)

A. filifolia (M)

A. haastii (M, A)

A. pilifera (M)

A. sp. (unnamed; included in *A.*
imbriata, as var. *prostrata*, by
Dawson 1961) (M)

Cardamine sp. (i) (*C. debilis* agg.)

("Narrow Petal" of Pritchard 1957)
(M)

C. sp. (ii) (*C. debilis* agg.) (cf. "Long
Style" of Pritchard 1957) (M)

C. sp. (iii) (unnamed) (lvs mostly
simple; blade ± reniform) (M)

C. sp. (iv) (aff. *C. corymbosa*) (M)

C. sp. (v) (unnamed) ("Scree Race"
of Pritchard 1957) (M)

C. sp. (vi) (unnamed) ("Tussock Race"
of Pritchard 1957) (A)

Cheesmania latisiliqua (incl.
C. gibbsii) (M)

Chionohebe ciliolata var.

(*Pygmaea ciliolata* var. *pumila*) (M)

Colobanthus affinis (M)

C. apetalus (incl. *C. a.* var. *alpinus*)
(M)

C. canaliculatus (M)

C. strictus (M)

C. wallii (incl. *C. masoniae*) (M)

DICOT HERBS OTHER THAN COMPOSITES

Acaena fissistipula (M)

A. profundeincisa (M, A)

Aciphylla anomala (M, A)

C. sp. (unnamed) (lvs and sepals strongly acicular; lvs unbordere; sepals 5, broader than lvs, without a thickened midrib) (M)

Dioscorea arcturi (A)

D. spathulata (A)

D. stenopetala (M,A)

Epilobium alsinoides ss. (A)

E. atriplicifolium (A)

E. brunnescens ss. (M)

E. chlorifolium (M,A)

E. cochayneanum (M,A)

E. glabellum ss. (M)

E. gracilipes (M)

E. margaretae (A)

E. pernitens (M,A)

E. pubens (M)

E. tasmanicum (M)

E. vernicosum (M)

E. sp. (i) (unnamed; included in E. brunnescens, as ssp. minutiflorum, by Raven and Engelhorn, 1971) (M)

E. sp. (ii) (unnamed; aff. E. glabellum) (A)

Euphrasia cheesemanii (M,A)

E. townsonii ss. (M,A)

E. sp. (i) (unnamed; aff. E. laingii) (M,A)

E. sp. (ii) (unnamed; aff. E. patricii) (calyx with glandular hairs, corolla pure white; lobes orientated to form a flat surface) (unc A)

E. sp. (iii) (unnamed; aff. E. townsonii) (M)

Forstera machayi (M,A)

F. sediifolia ss. (M)

F. tenella (M,A)

Galium perpusillum ss. (A)

Gentiana bellidifolia agg. (M,A)

G. filipes (M)

G. gracilifolia (incl. G. vernicosa) (M,A)

G. sp. (unnamed; aff. G. corymbifera) (M,A) unnamed;

Geranium sp. (aff. G. microphyllum) (M,A)

G. sessiliflorum var. novae-zeelandiae (M)

Geum leiospermum (M, unc A)

G. sp. (G. parviflorum agg.) (stock short; terminal leaflet about as long as broad; fls up to 13 mm diam.) (M)

Gingidia decipiens (M)

G. montana (M)

Gunnera monoica (M,A)

Hydrocotyle microphylla (M)

H. sp. (unnamed; included in H. novae-zeelandiae, as var. montana, by Kirk 1899) (M,A)

Kelleria croizatii (M)

K. dieffenbachii (M,A)

K. laxa (M,A)

K. multiflora (M,A)

K. villosa var. villosa (A)

Mazus radicans (M)

Myosotis angustata (M)

- M. brockiei (Moore and Simpson, 1973) (M)
- M. macrantha (M)
- M. sp.(i) (unnamed; included in M. pygmaea, as var. drucei, by Moore 1961) (M)
- M. sp.(ii) (M. australis agg.) (fls small, white) (M)
- Neopaxia sp.(i) (incl. Montia calycina and Claytonia australasica var. biflora) (A)
- N. sp.(ii) (unnamed) (lvs spatulate, up to 15mm long; fls 6mm diam; calyx lobes broad, obtuse; corolla lobes rounded, cucullate) (M)
- Nertera balfouriana (M, A)
- N. ciliata (M, A)
- N. sp.(i) (unnamed; aff. N. dichondrifolia) (hairs present on both surfaces of lf, straight, not hooked as in N. dichondrifolia) (A)
- N. sp.(ii) (unnamed; aff. N. depressa) (lvs larger and more fleshy than in N. depressa) (A)
- Notothlaspi sp. (unnamed) (N. australe auct., non Thlaspi australe Hook. f.)
- Oreomyrthis colensoi s.s. (incl. O.e. var. hispida and O.c. var. multifida) (M)
- O. sp. (unnamed; aff. O. ramosa) (M, A)
- Oreopogon alpinus (M)
- Ourisia caespitosa ssp. caespitosa (M)
- O. lactea ssp. lactea (M, A)
- O. simpsonii (M, A)
- Oxalis magellanica (M, A)
- Parahebe decora (A)
- P. linifolia ssp. linifolia (M)
- P. lyallii (A)
- Phyllachne clavigera (M, A)
- Plantago lanigera s.l. (M)
- P. raoulii (M, A)
- P. uniflora (M, A)
- Pratia angulata agg. (M, A)
- P. macrodon s.s. (M)
- Psychrophila novae-zealandiae (M, A)
- Ranunculus foliosus (M, A)
- R. insignis (M)
- R. membranifolius (M)
- R. nitens (M)
- R. reflexus (M)
- R. verticillatus (M, A)
- R. sp. (unnamed; included in R. tappacous, as var. macrophyllus, by Kirk 1899)
- Schizilema nitens (A)
- S. sp. (unnamed; included in S. haastii, as ssp. cyanopetalum, by Domin 1908) (M)
- Scleranthus brockiei (M)
- S. uniflorus (M, A)
- Stachousia minima (M)
- Stellaria decipiens (incl. S. parviflora) (M)
- S. gracilentia (M)

Urtica incisa (M)
Viola cunninghamii (M)
V. lyallii (M, A)
Wahlenbergia albomarginata var.
albomarginata (incl. *W. pygmaea*
var. *laxa* ^{and} *W. brockii*) (A)

Prunella vulgaris (A)
Rumex acetosella (A)
Trifolium repens (M, A)

No. of indigenous spp.: 364.
No. of adventive spp.: 18.

ADVENTIVE PLANTS

GRASSES

Agrostis capillaris (A)
Anthoxanthum odoratum (A)
Dactylis glomerata (A)
Festuca nigrescens (A)
Poa pratensis (M, A)

SEDGES

Carex ovalis (A)

RUSHES

Juncus effusus (A)

COMPOSITE HERBS

Cirsium vulgare (A)
Hieracium lapidulum (A)
H. pilosella (A)
Hypochoeris radicata (A)
Mycelis muralis (A)
Teraxacum officinale s.l. (M, A)

DICOT HERBS OTHER THAN COMPOSITES

Cerastium fontanum ssp. *vulgare*
Digitalis purpurea (A)

Doubtful and erroneous records

Carex kirki X *C. trachycarpa* (Coch-
ayne and Allan, 1934)
Chionohebe densifolia (Kirk 1896,
as *Veronica dasphylla*; Allan
1961, as *Parahabe tetragona*)
Hebe epactidea (Cheeseman 1925,
as *Veronica epactidea*)
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