

INDIGENOUS VASCULAR PLANTS ON RED HILLS, WAIRAU V.

2000-5875 FT (600-1785 M)

Highest point: Red Hill 5875 ft, grid ref. S27 420868

A.P.Druce, Botany Division, D.S.I.R., June 1974

(revised April 1975, July 1975, July 1976, Feb. 1977, June 1978,

June 1979, May 1980, Feb. 1981, May 1981,

June 1981, Oct. 1981, June 1982, Aug. 1982, July 1983, Aug 1986,

(Based on visits 1965, 1974, 1980, 1985, 1987,
(1992)

Aug. 1984, May 1987.

Nov. 1984, Aug. 1987.

June 1985, Sept. 1987.

June 1986, Oct. 1987.

Dec. 1987

m - in ultramafic area ("mineral belt"), including
overlying peat areas; m confined to ultramafic area

() - uncommon (in ultramafic area)

June 1988, Nov. 1988

Nov. 1990, July 1991,

May 1992, May 1993

GYMNOSPERM TREES AND SHRUBS

m *Halocarpus bidwillii*

H. biformis

m *Lepidothamnus laxifolius*

Libocedrus bidwillii

m *Phyllocladus alpinus* ss.

(m) *Podocarpus hallii*

(m) *P. nivalis*

(m) *P. hallii* × *P. nivalis*

(m) *P. sp.* (unnamed; included in *P.*)

coleosoi, as var. *tetnatus* and as
var. *foidensis*, by Wardle 1968)

DICOT SHRUBS

m *Aristotelia fruticosa* var.

A.f. X A.serrata

(m) *Brachyglottis bidwillii* var.
viridis

m *Cassinia vauvilliersii*

m *Coprosma cheesemanii* ss.

C. linatifolia

C. microcarpa

m *C. propinqua* ssp. *propinqua*

(m) *C. pseudocuneata* ssp.

C. rhamnoides (incl. *C. polymorpha*)

DICOT TREES

Elaeocarpus hookerianus

Fuchsia excorticata

m *Griselinia littoralis*

Melicytus lanceolatus (incl.

M.l. var. *latior*)

Nothofagus fusca

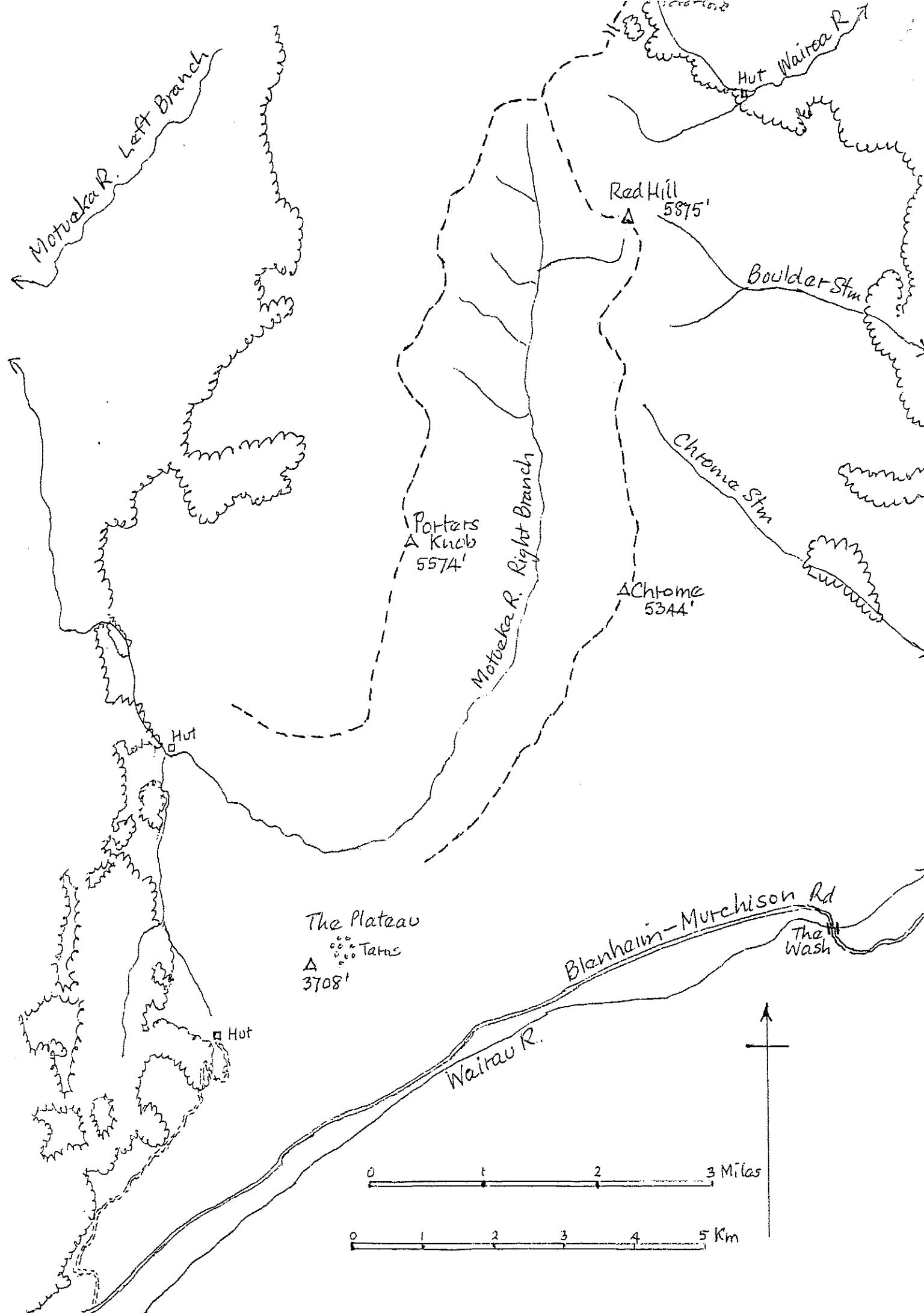
N. menziesii

m *N. solandri* var. *cliffortioides*

N. fusca × *N. solandri*

Pittosporum patulum

m *Pseudopanax crassifolius*



¹ on marble elsewhere

2

C. rugosa ssp. *rugosa*

Pernettya macrostigma

m *C. sp. (i)* (unnamed; included in (m) *P. m.* × *Gaultheria* sp. (unnamed))

Habe anomala

C. parviflora by Oliver, (935, and

m *H. carnosola*

others) (lf undersurface not

H. gracillima

minutely hairy as is usual in

m *H. odora* s.s.

C. parviflora; drupes vs. unpig-
mented, occ. purplish red)

(m) *H. salicifolia* var. *salicifolia*

(m) *H. topiaria*

+ m *C. sp. (ii)* (unnamed) (prostrate
shrubs; lvs plano-convex, linear;
drupes orange)

m *H. venustula* (incl. *H. brachy-
siphon*)

(m) *H. vernicosa*

m *Kunzea ericoides* agg.

(m) *C. propinqua* × *C. robusta*

m *Leptospermum scoparium*

(m) *Coriaria sarmentosa*

m *Leucopogon fasciculatus* var.

m *Corokia cotoneaster* var.
cotoneaster

m *L. fraseri* s.s.

(m) *Cyathodes dealbata* (incl. *C.
pumila*)

m *L. suaveolens* (incl. *Cyathodes
colensoi*)

m *C. empetrifolia*

m *Melicytus alpinus* s.s.

m *C. sp. (C. juniperina* agg.) (lvs small,
vs. <1 cm × <1 mm)

m *Myrsine divaricata* s.s.

m *Diacophyllum longifolium* var. (incl.
D. filifolium and *D. oliveri*)

M. nummulatia

m *D. pionum*

Neomyrtus pedunculata

m *D. uniflorum*

Olearia avicenniifolia

m *D. longifolium* × *D. pionum*

(m) *O. nummularifolia* var. (lvs
distinctly longer than broad, rather
than suborbicular as in var. *nummu-
larifolia*)

(m) *D. l.* × *D. uniflorum*

(m) *O. serpentina*

(m) *Epactis alpina*

m *Pentachondria pumila*

m *Exocarpus bidwillii*

m *Pimelea sutera*

(m) *Gaultheria antipoda*

Pittosporum divaricatum

(m) *G. crassa*

m *P. anomalum*

m *G. sp.* (unnamed; included in *G.*

depressa, as var. *novaeg-
zelandiae*, by Franklin 1962)

DICOT LIANES & RELATED PLANTS

- m *Clematis forsteri* ("tutifolia" forms) (m) *H. villosum*
 m *Muehlenbeckia axillaris*
Rubus cissoides var. (leaflets
 broader than in var. *cissoides*)
R. schmideloides var. *sub-*
pauperatus

(m) *Hymenophyllum multifidum*(m) *H. villosum**Hypolepis millefolium**Leptopteris hymenophylloides**Ophioglossum coriaceum* agg.(m) *Phymatosorus pustulatus*(m) *Polystichum vestitum*m *Pteridium esculentum***LYCOPODES**

- m *Lycopodium australe*
 m *L. fastigiatum*
 m *L. scariosum*
 (m) *L. rarium* (incl. *L. billardierei*
 and *L. novae-zelandicum*)
 m *L. volubile*

ORCHIDS

- (m) *Asplenium hookerianum*
 (m) *A. flaccidum*
A. richardii
 m *A. terrestre* ssp. *terrestre*
 (m) *A. flaccidum* X *A. terrestre*
 (m) *A. sp.* (unnamed; aff. *A. trichomanes*)
 (m) *Blechnum discolor*
 (m) *B. fluvatile* agg.
 (m) *B. Penna-martini*
 (m) *B. procerum*
 m *B. vulcanicum*
 (m) *B. sp.* (unnamed) (mountain sp;
 lower pinnae not reduced
 in length)
Botrychium austale
B. biforme
 (m) *Cystopteris tasmanica*
 m *Gleichenia microphylla*
 (m) *Grammitis patagonica*
 (m) *G. poeppigiana*
Histiopteris incisa

m *Aporostylis bifolia*(m) *Caladenia lyallii**Chiloglottis cornuta*(m) *Corybas macranthus**C. trilobus* s.s.*Microtis unifolia*m *Prasophyllum colensoi*(m) *Pterostylis australis*(m) *P. humilis*(m) *Thelymitra decora*m *T. longifolia***GRASSES***Agrostis personata*m *A. sp.* (unnamed; aff. *A. dyeri*)(m) *Chionochloa australis*m *C. defracta*m *C. rubra* ssp.m *C. defracta* X *C. rubra*

- m *Dactyloctenium aegyptium* (incl. *D. a.*
var. *brachyantha*) *C. dissita* ss.
- Elymus hardyioides* m *C. echinata* var. (*C. stellulata*
(m) *E. sp.* (aff. *E. tectorius*) var. *australis*)
- m *Festuca* sp. (i) (unnamed; aff. *F.*
rubra) *C. forstieri*
- m *F. sp.* (ii) (*F. matthewsii* sensu
Connor 1968) *C. goyenii*
- m *Hierochloe novae-zelandiae* m *C. sinclairii*
- m *H. redolens* m *C. traversii*
- (m) *Lachnagrostis* sp. (unnamed;
included in *L. filiformis*, as
var. *semi-glabra*, by Zotov 1965) m *C. uncifolia*
- m *Poa acicularifolia* ssp. *ophitalis* C.sp(?) / *C. dissita* var. *monticola*?
- P. *braviglumis* m *Carpha alpina* ss.
- P. *cita* ssp. m *Isolepis aucklandica*
- m *P. colensoi* I. *habite*
- P. *imbecilla* in *I. subtilissima*,
I. *sp.* (I. *pottsii*?)
- m *Rytidosperma buchananii* (m) *Lepidosperma austrole*
- (m) *R. gracile* m *Oreobolus pectinatus*
- m *R. setifolium* (m) *O. strictus*
- m *Thisetum* sp. (i) (unnamed; aff. *T. antarcticum*) (lf sheath densely hairy, with both long and short hairs especially in the lower two-thirds) m *Schoenus pauciflorus* ss. ("Slender form" of Edgar 1970, p. 194)
- m *Uuncinia divaricata* plants
- m *U. fuscovaginata* var. (*glaucus*)
- U. *rupestris* (incl. *U. angustifolia*)
- m *T. sp.* (ii) (unnamed; included in *T. antarcticum*, as ssp. *tenellum*, by Petrie 1912) **RUSHES**

SEDGES

- m *Carex breviculmis* m *Centrolepis ciliata*
- C. *comans* m *Empodisma minus*
- (m) *C. coriacea* (m) *Juncus gregiflorus*
- (m) *C. dallii* m *J. novae-zelandiae*
- m *C. devia* J. *sarophorus*

m *Luzula migrata*

m *L. picta* s.s.

L. subclavata

m *L. sp.(i)*(unnamed; included in *L. picta*, as var. *limosa*, by Edgar 1966) (m) *Gnaphalium audax*
G. ruahinicum

m *L. sp.(ii)*(unnamed; aff. *L. rufa*)*

clad in both short glandular hairs
and long multicellular, non-glandular
hairs with cottony tips; lf margins
white with a band of cottony hairs)

MONOCOT HERBS (OTHER THAN)

ORCHIDS, GRASSES, SEDGES, RUSHES)

m *Astelia graminea*

m *A. nervosa* s.s.

m *A. sp.*(unnamed; aff. *A. nervosa*)
(lvs narrower than in *A. nervosa*)

(m) *Bulbinella hookeri*

m *Phormium cookianum*

COMPOSITE HERBS

m *Anaphalis* sp. (*Helichrysum bellidifoloides*)
s.s.

m *Brachyglottis lagopus* var. *lagopus*

m *Calimixia alpina* s.s.

m *C. gracilenta* ssp.

(m) *C. incana* (incl. *C. discolor*)

(m) *C. monroi* ssp.

(m) *C. sinclairii* (incl. *Callianis* & *C. durietzii*)

m *C. spectabilis* ssp. *spectabilis*

m *C. sp.*(unnamed)(plants rhizomatous)

(m) *C. gracilenta* X *C. spectabilis*

(m) *Leptinella dioica* ssp. *dioica*

m *L. sp.(i)*(*Cotula linearifolia*)

(m) *L. sp.(ii)*(*L. squalida* ssp. *mediana*)

m *Craspedia* sp. (unnamed)(summer-
green; lvs green, both surfaces

Pseudognaphalium sp. (unnamed; aff.

P. pluteoalbum) (lvs mostly oblong

spatulate to narrowly oblong, rounded)

(m) *Helichrysum filicaule*

(m) *Lageniforma cuneata*

L. pinnatifida

L. pumila

L. strangulata

m *Microseris scapigera* var.

(m) *Raoulia australis* s.s.

m *R. glabra*

(m) *R. grandiflora* var. *grandiflora*

R. subgeminata

R. tenuicaulis (incl. *R. t.* var.

dimorpha and *R. t.* var. *pusilla*)

Senecio minimus

DICOT HERBS (OTHER THAN COMPOSITES)

(m) *Acaena anserinifolia*

(m) *A. inermis*

A. juvenca

(m) *A. profunda* incisa

* (lvs up to 2.5 mm wide, channelled, strict, heads 6-9(12) mm diam.;
tepals slightly > capsules)

- E. tenuipes s.s.
- (m) E. sp. (unnamed; included in E. brunneascens, as ssp. minutiflorum, by Raven and Engelhorn, 1971)
- m Anisotome aromatica
- m A. filifolia
- (m) Galium perpusillum s.s.
- m A. flexuosa var. (lvs broader than G. propinquum in var. flexuosa; ultimate seg- ments produced into acicular tips upto 5mm long)
- (m) Geranium sessiliflorum var. n.3
- Cardamine sp. (i) (cf! C. corymbosa) m Gentiana sp. (i) (unnamed; aff. G. ballidifolia)
- m C. sp. (ii) (C. debilis agg.) (style short)
- m Colobanthus sp. (i) (unnamed) (resembling Sagina procumbens)
- m C. sp. (ii) (unnamed) (sepal vs. 4, rarely 5; lvs and sepals acicu- at-tipped)
- m Drosera arcturi
- (m) D. spathulata
- Epilobium alsinoides s.s.
- (m) E. atriplicifolium s.s.
- (m) E. brunneascens
- E. cinereum
- E. cockayneum
- E. komarovianum
- E. linnaeoides
- E. nummulariifolium
- (m) E. pubens
- E. rotundifolium
- m G. sp. (ii) (unnamed; aff. G. montana)
- m G. sp. (iii) (unnamed; aff. G. tenuifolia) (biennial; stems few, tall, erect)
- (m) Gingidia montana
- (m) Gonocarpus aggregatus
- m G. micranthus ssp. micranthus
- Hydrocotyle microphylla
- H. moschata
- H. sp. (unnamed; included in H. novae-zealandiae, as var. montana, by Kirk 1899)
- (m) Hypericum japonicum agg.
- (m) Kallstroemia laxa
- m K. sp.
- Mentha cunninghamii
- Myosotis forsteri
- m M. lactea (type loc.)
- m M. montoi
- (m) Myriophyllum propinquum

- m *Neopaxia* sp. (incl. *Montia calycina* & *Claytonia austroalasica* var. *biflora*)
Nertera ciliata *R. membranifolius*
- N. *depressa* (include *N. cunninghamii*) *R. reflexus*
- N. sp. (unnamed; aff. *N. dichondrifolia*) (hairs present on both surfaces of lf, straight, not hooked as in *N. dichondrifolia*) (m) *R. verticillatus*
- m *Nototilaspi* sp.(i) (*N. australe* avct., non *N. australe* ss.) (m) *R. sp.* (unnamed; included in *R. lappaceus*, as var. *macrophyllus*, by Kirk (1899))
- m *Scleranthus brockiei*
S. uniflorus
- (m) *Stackhousia minima*
- m N. sp.(ii)(unnamed)
(lvs thick, fleshy, linear to linear-ob-lanceolate; margins entire or with a few small lobes) *Urtica incisa*
- m *Viola cunninghamii*
V. filicaulis
- m *Oreomythris colensoi* ss. (incl. *O.c.* var. *hispida* and *O.c.* var. *multifida*) m *Wahlenbergia albomarginata*
O. sp. (unnamed; aff. *O. tenuosa*) var. *albomarginata* (incl. *W. pygmaea* var. *laxa*, *W. brockiei*, and *W. simpsonii*)
- (m) *Oreostylidium subulatum*
Ourisia lactea ssp. *lactea*

(m) *Plantago novae-zelandiae*
(m) *P. raoulii*

Pratia angulata agg.
Ranunculus foliosus

No. of species: 276.

Record not accepted

Leptinella pectinata (Martin 1932, as *Cotula pectinata*)

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