

HIGHER PLANTS (LYCOPDS, FERNS, GYMNOSPERMS, FLOWERING PLANTS) OF MT BENSON¹, LOCKETT RA., IRON HILL² AND DIAMOND LAKES AREA, N.W. NELSON, 3500-5560 FT/1060-1690 M

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

(Revised Sept 1982, March 1983, June 1983, July 1983

(Based on visits 1958, 1964, 1974, Jan 1982,

March 1982, Feb 1985)

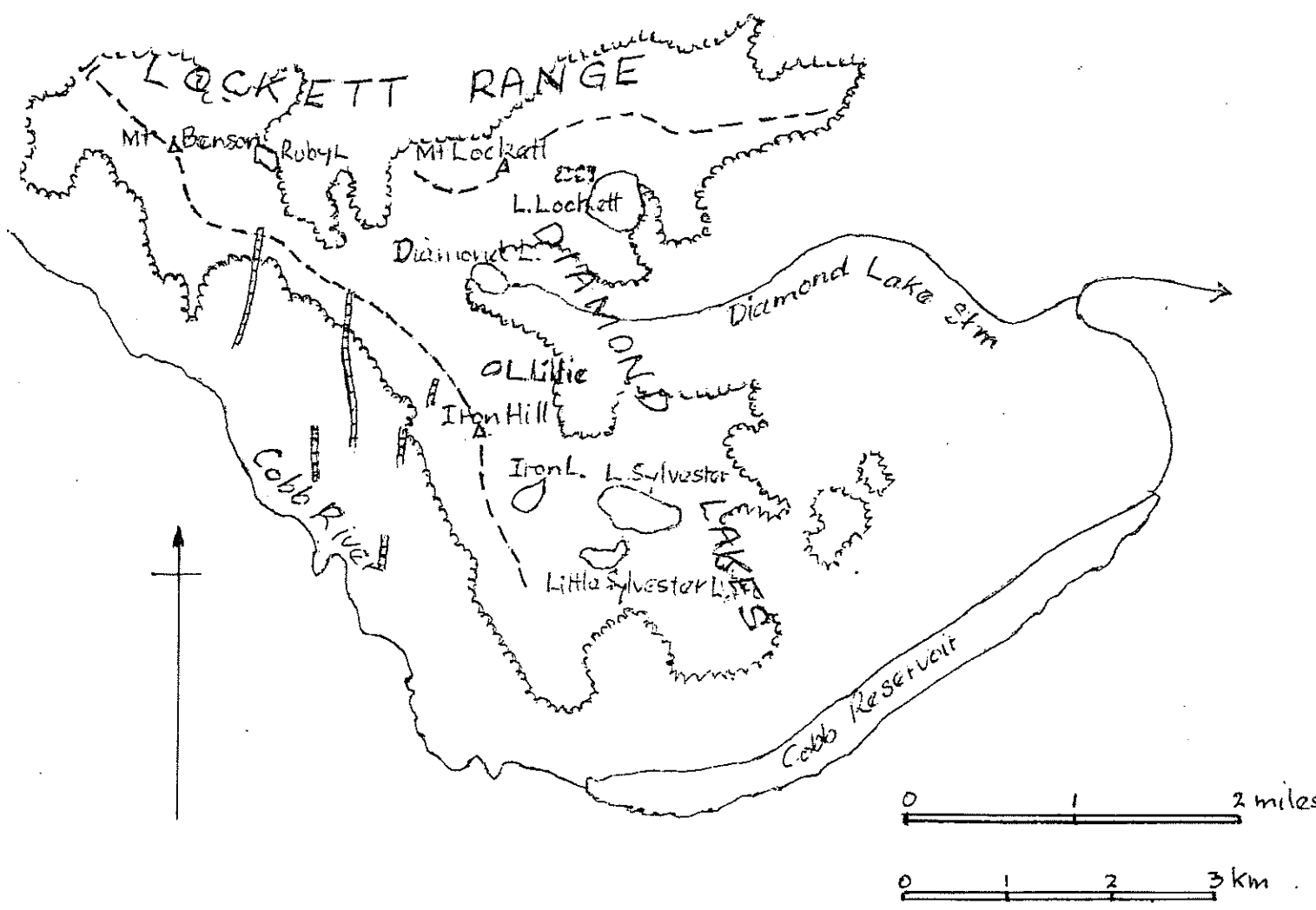
(Additions by P.A. Williams 1986)

¹ Grid ref. SB 988545, alt. c. 5450 ft/1660m

→ ² Grid ref. SB 019515, alt. 5561 ft/1690m

Rocks: siltstone, argillite, sandstone, conglomerate; volcanics; limestone lenses; # alluvium (vicinity of Diamond L.) River Wainoero

- June 1984
- Nov 1984
- May 1985
- July 1985
- Apr. 1986
- Oct. 1987
- Dec. 1987
- June 1988
- Sept 1990
- June 1991
- Aug 1992
- Aug 1993



INDIGENOUS SPECIES

(unc) - uncommon or local

GYMNOSPERM TREES AND SHRUBS

Halocarpus bidwillii
Lepidothamnus laxifolius
L. intermedius x *L. laxifolius*
(unc)
Phyllocladus alpinus agg.

Podocarpus nivalis
P. hallii x *P. nivalis* (unc)

Aristotelia fruticosa var.

Brachyglottis adamsii
B. bidwillii var. *viridis*
B. rotundifolia var. (incl. *B. buch-*
ananii & *B. cockaynei*) (unc)

Cassinia vauvilliersii

Coprosma atropurpurea

C. cheesemani s.s.

C. ciliata ssp. *ciliata*

C. colensoi s.s.

C. depressa

C. foetidissima

C. perpusilla ssp. *perpusilla*

C. propinqua ssp. *propinqua*

C. pseudocuneata ssp.

C. rigida (Diamond L. - unc)

C. rugosa ssp. *rugosa*

C. serrulata (Lockett Ra. - unc)

C. sp. (i) (unnamed; aff. *C. pseudo-*
cuneata) (low-growing shrubs
with small, thick, arcuate lvs)

C. sp. (ii) (unnamed) (*C. parviflora*
var. *dumosa* sensu Allan 1961,
non *C. p.* var. *dumosa* Cheese-
man)

DICOT TREES

Dracophyllum traversii (incl. *D.*
pyramidale)

Griselinia littoralis

Hoheria lyallii var. (*H. glabrata*)
(unc)

Nothofagus menziesii

N. solandri var. *cliffortioides*

Pittosporum patulum (juv. only)
(unc)

Pseudopanax linearis

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

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

DICOT SHRUBS

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

C. sp. (iii) (unnamed; aff. C. colensoi)
(low-growing shrubs with trailing
branches) (unc)

C. sp. (iv) (unnamed) (prostrate shrubs;
lvs plano-convex, linear; drupes
orange) (Mt Benson and Iron Hill)

C. sp. (v) (unnamed; included in C. parvi-
flora by Oliver, 1935, and others) (If
undersurface not minutely hairy
as is usual in C. parviflora; drupes
vs. unpigmented, occ. purplish red)

Coriaria plumosa (unc)

Cyathodes dealbata (incl. C. pomila)

C. empetifolia

Dracophyllum longifolium var. (incl. D.
filifolium and D. oliveri)

D. pubescens var. pubescens

D. uniflorum

D. sp. (unnamed; aff. D. kirkii) (low-grow-
ing shrubs; branches often rooting; infl
of few-fl'd racemes) (Mt Benson)

Epacris alpina

Exocarpyus bairdii

Gaultheria crassa

G. depressa ss. (unc)

G. sp. (unnamed; included in G.
depressa, as var. novae-zelandiae,
by Franklin 1962)

Hebe albicans var. albicans

H. canterburienensis

G. rupestris (incl. G. subcorym-
bosa) (unc)

H. ciliolata

H. cockayneana var.

H. epactidea var. epactidea
(Iron Hill - unc)

H. haastii var. (aff. var. humilis;
see Moore 1961, p. 940)

H. macrantha var. brachyphylla

H. odora ss.

H. tetragona var. (H. coarctata)

H. topiaria

H. sp. (Leonohebe masoniae)
(incl. L. m. var. rotundata)

Helichrysum intermedium var.

Leptospermum scoparium (unc)

Leucopogon fraseri ss.

L. suaveolens (incl. Cyathodes
colensoi)

Melicactus sp. (unnamed)

Myrsine divaricata ss.

M. nummularia

Olearia colensoi var. colensoi (unc)

O. lacunosa var. lacunosa

O. nummularifolia var. (lvs dis-
tinctly longer than broad, rather
than suborbicular as in var.
nummularifolia)

O. avicenniifolia X O. numm-
ularifolia (unc)

Pentachondra pumila
Peraxilla tetrapetala (unc)
Pimelea oreophila
Pittosporum anomalum
P. rigidum var. (*P. crassicaule*)
Traversia baccharoides (unc)

DICOT LIANES AND RELATED

TRAILING PLANTS

Clematis forsteri

Muehlenbeckia axillaris
M. australis X *M. axillaris* (unc)
Rubus parvus (unc)

LYCOPODS

Lycopodium australianum
L. fastigiatum
L. scarosum
L. varium (incl. *L. billardierei* and
L. novae-zelandicum) (unc)

FERNS

Asplenium richardii (unc)
A. terrestre ssp. *terrestre* (unc)
Blechnum fluviatile agg.
B. penna-marina
B. procerum
B. sp. (unnamed) (mountain sp.;
 lower pinnæ not reduced) ("The
 Dunedin-Cass Variety" of Crookes 1963)

Cyathea colensoi
Cystopteris tasmanica
Grammitis billardierei
G. givenii (unc)
G. magellanica ssp. *nothofageti*
G. patagonica (unc)
G. poeppigiana

Histiopteris incisa (unc)

Hymenophyllum multifidum

H. peltatum (unc)

H. villosum

Hypolepis millefolium

Ophioglossum coriaceum agg. (unc)

Polystichum cystostegia (unc)

P. vestitum

ORCHIDS

Adenochilus gracilis

Aporostylis bifolia

Caladenia lyallii

Chiloglottis cornuta

Corybas macranthus

C. trilobus s.s.

Microtis oligantha (unc)

Prasophyllum colensoi

Thelymitra formosa (unc)

T. longifolia (unc)

GRASSES

Agrostis dyeri s.s.

A. muelleriana

A. personata

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

- Chionochloa australis*
C. conspicua ssp. *conspicua*
C. pallens ssp. *pallens*

C. tubra ssp. *occulta*
C. sp. (unnamed) (*C. flavescens*
 auct. South Island, non *C. flav*)
Deschampsia novae-zelandiae
D. tenella
Deyeuxia aucklandica
D. avenoides (incl. *D. a.* var. *brachyantha*)
D. youngii (h. *Sylvester* - unc)
Elymus sp. (aff. *E. rectisetus*)
 (plants glaucous)

Festuca sp. (i) (unnamed; aff. *F. rubra*)
F. sp. (ii) (aff. *F. matthewsii*) (tufted, but not
 tussock-forming, glaucous)
Hierochloa novae-zelandiae
H. recurvata (unc)
Koeleria cheesemani
K. sp. (*K. novae-zelandica* aff.)
 (plants slender, rhizomatous)
Lachnagrostis tyallii ss (incl. *L.*
filiformis var. *semiglabra*)

L. sp. (i) (unnamed) (glumes up to 4mm
 long; awns short or absent) (unc)

L. sp. (ii) (*L. Sylvester*) (unc)

Microlaena colensoi s.s.
Poa breviglumis
P. celsa

P. colensoi
P. dipsacea (unc)
P. imbecilla
P. kirkii
P. maia
P. novae-zelandiae s.s.

P. sp. (unnamed; aff. *P. novae-zelandiae*)

Rytidosperma buchananii (unc)
R. gracile
R. nigricans
R. setifolium
Simplicia buchananii (unc)
Trisetum youngii
T. sp. (i) (unnamed; included in *T.*
antarcticum, as ssp. *tanellum*,
 by Petrie 1912)
T. sp. (ii) (unnamed) (plants slender;
 lf sheath usually glabrous; lf
 blade flat, up to 2.5mm wide, margins
 smooth, vs. with a few hairs near
 ligule)

SEDGES

- Carex acicularis*
C. breviculmis (unc)
C. echinata
C. flaviformis
C. gaudichaudiana

- C. sp.(i)(unnamed; aff. C. coriacea) (lvs slender, bright green)
- C. libera (unc)
- C. pyrenaica var. cephalotes
- C. Sinclairii
- C. wakatipu s.s.
- C. sp(ii)(unnamed; aff. C. testacea)(unc)
- Carpha alpina s.s.
- Eleocharis acuta
- Gahnia procera
- Oreobolus pectinatus
- O. strictus
- Schoenus pauciflorus s.s. ("slender form" of Edgar 1970, p.194)
- Isolepis aucklandica
- I. caligenis (unc)
- I. habra
- I. subtilissima
- Uncinia astonii
- U. caespitosa
- U. clavata
- U. divaricata
- U. drucei
- U. filiformis
- U. fuscovaginata var. (plants glaucous)
- U. involuta
- U. longifructus
- U. nervosa s.s. (unc)
- U. rubra
- U. rupestris (incl. U. angustifolia)
- U. silvestris (incl. U. affinis)
- Gaimardia setacea
- Juncus antarcticus
- J. novae-zelandiae
- J. pusillus (unc)
- Luzula colensoi
- L. migrata
- L. picta s.s.
- L. rufa s.s.
- L. sp. (i)(unnamed; included in L. picta, as var. limosa, by Edgar 1966)
- L. sp. (ii)(unnamed; included in L. chinata, as var. petrieana, by Edgar 1966)
- L. colensoi x L. migrata
- Marsippospermum gracile

MONOCOT HERBS OTHER THAN
ORCHIDS, GRASSES, SEDGES, RUSHES

RUSHES AND ALLIED PLANTS

- Centrolepis ciliata
- Empodisma minus
- Arthropodium candidum (unc)
- Astelia graminea
- A. linearis var. linearis
- A. nervosa s.s.
- A. nivicola s.s. (unc)
- A. petriei
- A. skottsbergii (unc)
- A. sp. (i)(unnamed; included in A. nivicola, as var. moniceae, by Moore 1966)
- A. sp. (ii)(unnamed; aff. A. nervosa) (lvs broad, not conspicuously white adaxially as in A. nervosa)

- Bulbinella hookeri
- Phormium cookianum
- Potamogeton cheesemanii (unc)
- P. suboblongus

COMPOSITE HERBS

- Anaphalis sp. (Helichrysum bellidioides B.S.S.)
- Brachyglottis sp. (unnamed; included in B. bellidioides, as var. crassa, by Nordenstam 1978)
- Brachyscome radicata
- B. sinclairii s.s.

- Calmisia alpina s.s.
- C. bellidioides (unc)
- C. gibbsii
- C. hieracifolia ssp
- C. incana (incl. C. discolor)
- C. latifolia
- C. lateralis (incl. C. l. var. villosa)
- C. montoi ssp. (C. cottiacea var. lanceifolia)
- C. rupestris (unc)
- C. sessiliflora
- C. similis
- C. sinclairii (incl. C. allanii; C. durietyi)
- C. spectabilis ssp.
- C. traversii
- C. sp. (i) (unnamed; aff. C. gracilentata) (plants strongly rhizomatous)
- C. sp. (ii) (unnamed; aff. C. gracilentata) (plants tufted; lvs linear to linear-lanceolate; lower surface densely covered in tomentum)
- C. sessiliflora x C. traversii (unc)
- C. similis x C. spectabilis (unc)
- C. s. x C. traversii (unc)
- C. spectabilis x C. traversii (unc)

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

C. sp. (ii) (unnamed) (plants summer-green, lvs green, both surfaces densely clad in multicellular, non-glandular hairs; lf margins faintly to distinctly white with cottony hairs; fls white)

C. sp. (iii) (unnamed) (plants summer-green; lvs green, both surfaces

densely clad in short glandular hairs 40-3 mm long; in distib with or without long non-glandular hairs; lf margins faintly white with cottony hairs; fls white

C. sp. (iv) (plants summer-green; lvs green; fls white)

Dolichoglottis scorzonoides

Gnaphalium laterale

G. mackayi s.s.

G. paludosum s.s.

G. polylopis (Ruby L. - unc)

G. wahinicum

G. traversii

Haastia sinclairii s.s.
Helichrysum filicaule
Lagenifera strangulata
Leptinella pyrathrifolia agg.

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

Leucogones grandiceps
Microseris scapigera var.

Pseudognaphalium sp. (unnamed; aff. P.
luteoalbum) (mountain sp.; lvs mostly
oblong-spathulate to narrowly
oblong, rounded)

Raoulia apicinigra s.s.

R. eximia var.

R. glabra

R. grandiflora var. grandiflora

R. tenuicaulis (incl. R. t. var. dimorpha
and R. t. var. pusilla)

Senecio waitavensis

Taraxacum magellanicum

A. polita var.

Anisotome atomica

A. deltoidea

A. filifolia

A. haastii (unc)

A. pilifera

Cardamine sp. (i) (C. debilis agg.)
(cf. "Long Style" of Pritchard 1957)

C. sp. (ii) (unnamed) (lvs mostly
simple; blades ± reniform)

C. sp. (iii) (C. debilis agg.)

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

C. sp. (v) (C. debilis agg.)

Cheesemania latifolia

(incl. C. gibbsii - type loc. Mt
Lockett) (unc)

Colobanthus acicularis (Lockett
Ra. and ridge NW of Iron Hill - unc)

C. affinis

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

C. canaliculatus

C. strictus

C. wallii (incl. C. masoniae)

C. sp. (i) (unnamed) (lvs and sepals
strongly acicular; lvs unbordered;
sepals 5, broader than lvs, with-
out a thickened midrib) (ridge
NW of Iron Hill - unc)

DICOT HERBS OTHER THAN COMPOSITES

Acaena anserinifolia

A. fissistipula

A. inermis

A. profundeincisa

A. saccaticupula (unc)

Aciphylla anomala

A. colensoi var. colensoi

C. sp. (ii) (unnamed; aff. *C. buchana-*
anii) (Iron Hill - unc)

Crassula sinclairii (unc)

Donatia novae-zealandiae

Drosera arcturi

D. spathulata

D. stenopetala

Epilobium atypicalifolium s.s.

E. brunnescens s.s.

E. chorifolium

E. cockayneanum

E. glabellum s.s.

E. gracilipes

E. komarovianum

E. linnaeoides

E. macropus

E. pernitens

E. porphyrium (Mt Benson - unc)

E. pubescens (unc)

E. pyrenostachyum

E. rubromarginatum

E. tasmanicum (Lockhart Ra - unc)

E. sp. (i) (cf. *E. matthewsii* & *E. verrucosum*)

E. sp. (ii) (unnamed; included in *E.*

brunnescens, as ssp. *minuti-*

florum, by Raven and Engelhorn,
1971)

E. sp. (iii) (unnamed; aff. *E. glabellum*)

Euphrasia cheesemanii (unc)

E. townsonii s.s.

E. sp. (i) (unnamed; aff. *E. laingii*)

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

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

E. sp. (iv) (unnamed; aff. *E. petriei*)

Forstera mackayi

F. sedifolia s.s.

F. tenella

Galium perpusillum s.s.

Gentiana bellidifolia var.

G. sp. (i) (unnamed; aff. *G. corymbifera*)

G. filipes

G. gracilifolia (incl. *G. verrucosa*)

G. montana (incl. *G. m.* var.

stolonifera, *G. patula*, and

G. bellidifolia var. *pulchella*)

G. tenuifolia (near Ruby L. - unc)

G. sp. (ii) (unnamed; aff. *G. bellidifolia*)

(plants forming small to large patches;

lvs very glossy; fls large, creamy white)

Geranium sessiliflorum var. *nz* (unc)

G. sp. (unnamed; aff. *G. micro-*

phyllum)

Geum leiospermum

G. sp. (*G. parviflorum* agg.) (stock

short; terminal leaflet about as

long as broad; fls up to 13mm diam.)

Guigodia decipiens

Gonocarpus aggregatus

G. micranthus ssp. *micranthus*

Hydrocotyle microphylla

H. sulcata

H. sp. (unnamed; included

in *H. novae-zealandiae*, as

var. *montana*, by Kirk 1899)

Kelleria dieffenbachii (unc)

K. laxa (unc)

K. multiflora

Lilaeopsis ruthiana (unc)

O. lactea ssp. *lactea*

Limosella lineata agg. (unc)

Lobelia roughii (Lockett Ra. - unc)

O. simpsonii

Mentha cunninghamii

Montia fontana s.s.

Oxalis magellanica

Myosotis angustata (Iron Hill - unc)

Parahebe cheesemani (unc)

P. decora

M. macrantha (unc)

P. lyallii

M. tenericaulis (unc)

M. sp. (i) (*M. australis* agg.) (fls yellow)

Phyllachne clavigera (incl. *P. colansoi*)

M. sp. (ii) (*M. australis* agg.) (fls small, white)

Plantago lanigera s.l. (incl. *P. novae-zelandiae*)

M. sp. (iii) (unnamed; included in *M. pygmaea*, as *verdugui*, by Moore 1961)

P. raoulii

P. triandra s.s.

P. uniflora

Pratia angulata agg.

P. macrodon s.s.

Ranunculus altus

R. cheesemani var. *cheesemani*

R. foliosus

R. glabrifolius

R. insignis

R. membranifolius

R. verticillatus

Psychrophila novae-zelandiae

M. forsteri

Myriophyllum pedunculatum ssp. n. 3.

M. triphyllum

Neopaxia sp. (incl. *Montia calycina* & *Claytonia australasica* var. *biflora*)

Nertera balfouriana

N. ciliata

Notothlaspi sp. (unnamed) (*N. australe* auct., non *Thlaspi australe* Hook. f.)

Oreomyrrhis colensoi s.s. (incl. *O. c.* var. *hispida* and *O. c.* var. *multifida*)

O. sp. (unnamed; aff. *O. ramosa*)

Oreostyloidium subulatum

Ourisia caespitosa ssp. *caespitosa*

Schizelama colensoi (unc)
S. haastii s.s.
S. nitens
Scleranthus uniflorus
Stackhousia minima
Stellaria decipiens (incl. *S. parviflora*)
S. gracilentia
Urtica incisa

Viola cunninghamii
V. filicaulis
V. lyallii
Wahlenbergia albomarginata var. *albomarginata* (incl. *W. pygmaea* var. *laxa* & *W. brockii*)

Record not accepted
Acaena glabra (Mason 1949)

ADVENTIVE SPECIES

GRASSES

Agrostis capillaris
Anthoxanthum odoratum
Dactylis glomerata
Festuca nigrescens
Holcus lanatus
Poa annua
P. pratensis

BEDGES

Carex ovalis

RUSHES

Juncus articulatus
J. bufonius
J. conglomeratus
J. effusus

COMPOSITE HERBS

Cirsium palustre
C. vulgare
Crepis capillaris
Hypochaeris radicata
Mycalis muralis

Senecio jacobaea
Taraxacum officinale s.l.

DICOT HERBS OTHER THAN COMPOSITES

Achillea millefolium
Cerastium fontanum esp. *vulgare*
Linum catharticum
Lotus pedunculatus
Prunella vulgaris
Rumex acetosella
R. pulchellus
Trifolium repens
Veronica arvensis

No. of indigenous spp. : 401.
No. of adventive spp. : 28.

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