

W. SEDIMENTARY
NW NELSON
(298)

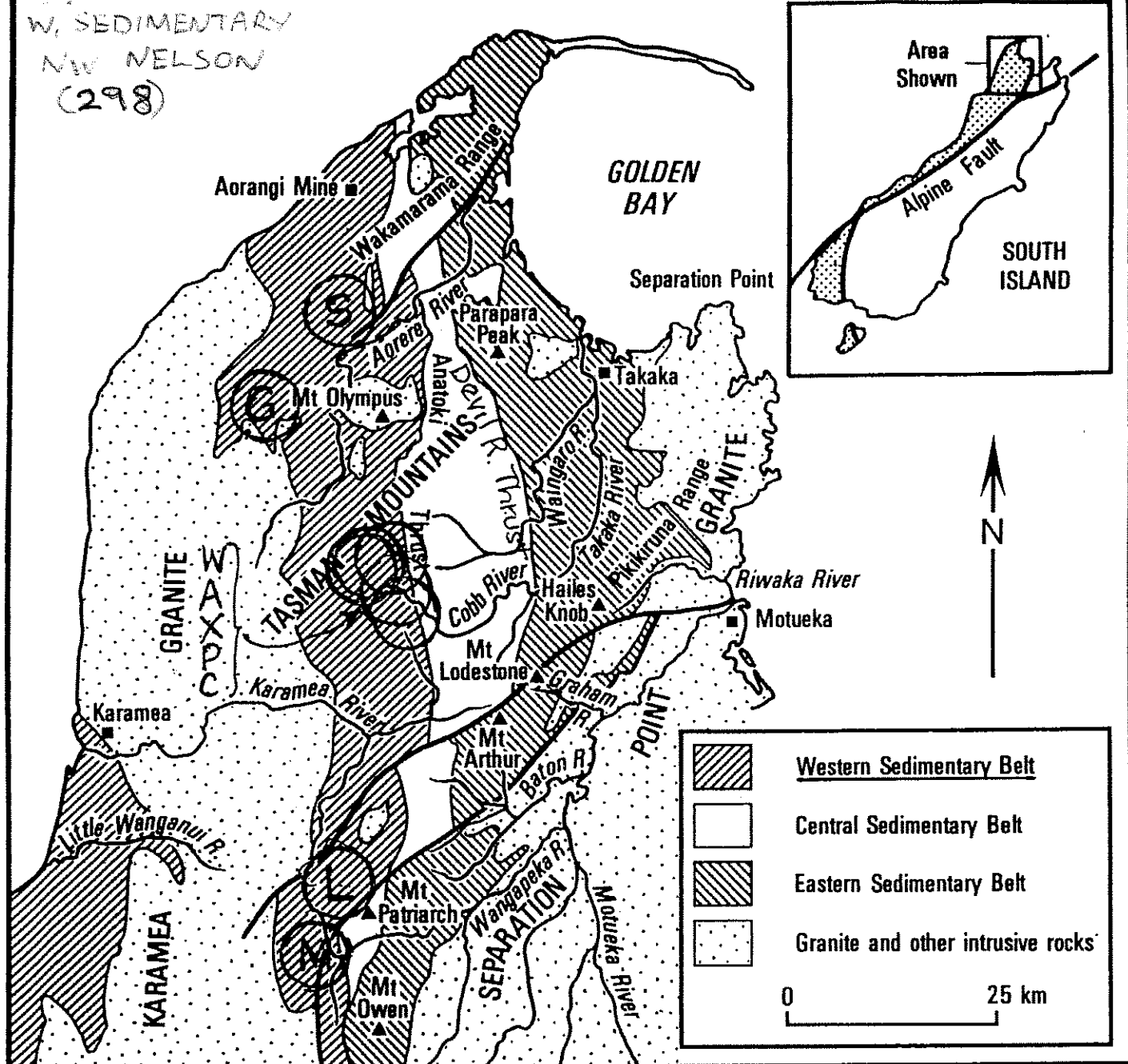


Fig. 8 The main Paleozoic rock belts of Northwest Nelson. Inset shows distribution of lower Paleozoic rocks in the South Island.

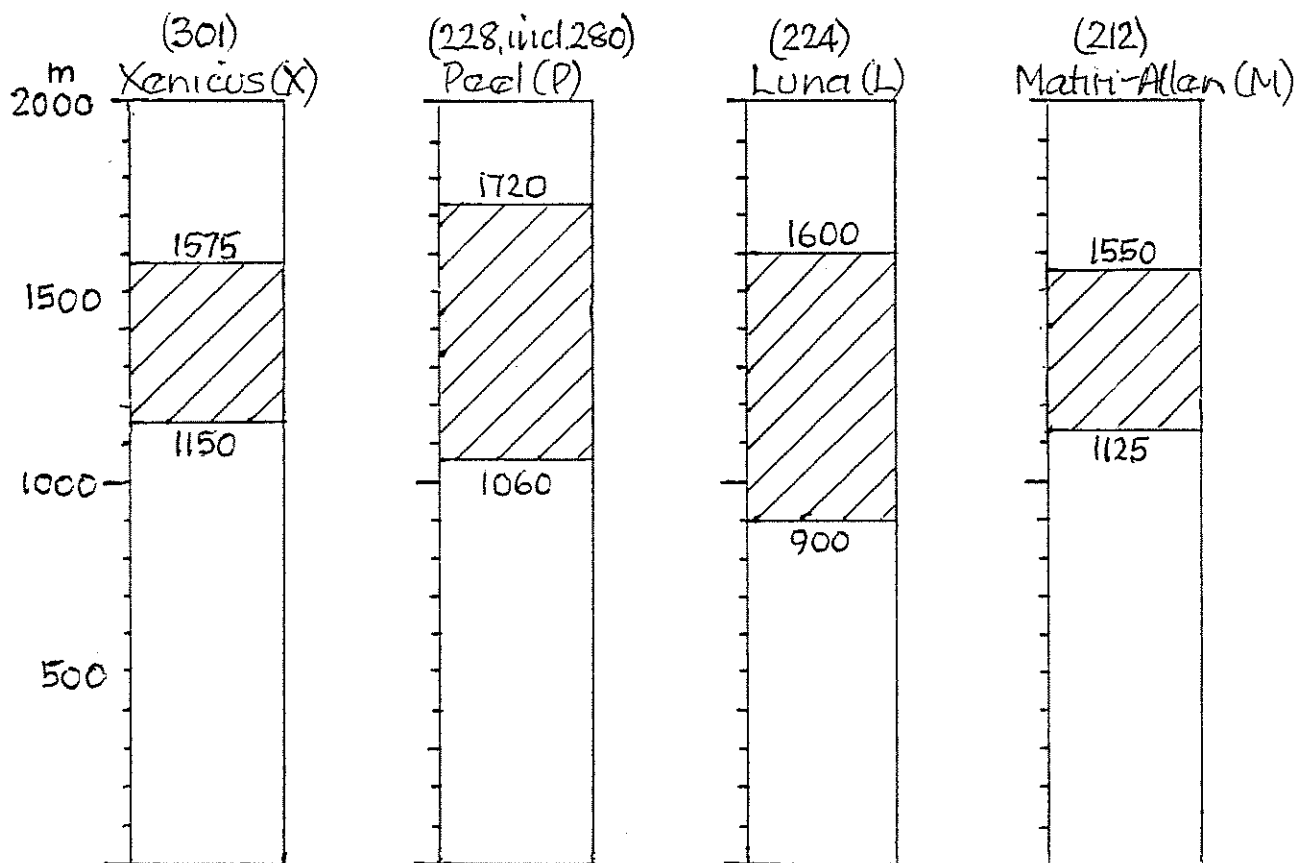
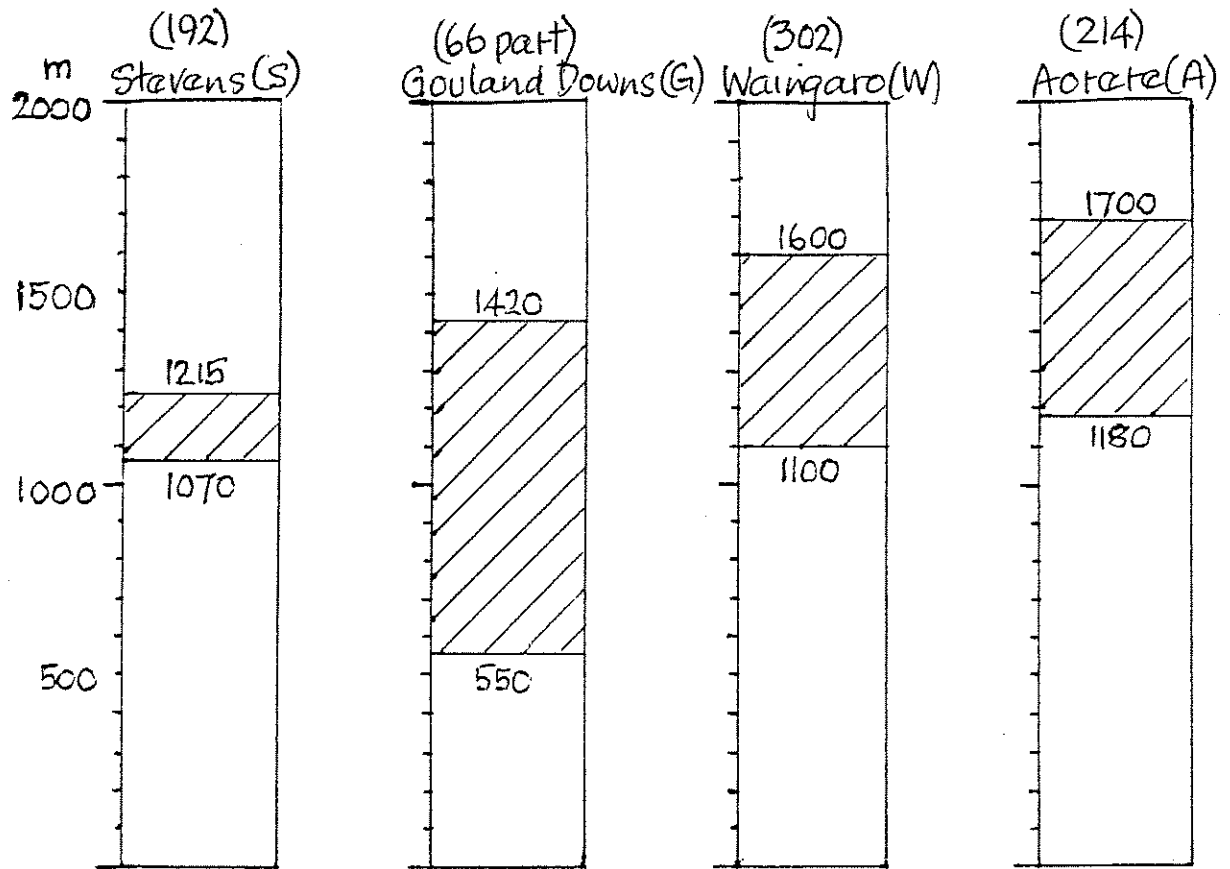
DISTRIBUTION OF WESTERN NON-CALCAREOUS SEDIMENTARY ROCKS

Areas surveyed:

- S - Stevens area (Mt Stevens, Wakamatama Ra)
- G - Goulard Downs area
- W - Waingaro area (Waingaro Pk, W Lockett Ra.)
- A - Aorere area (Aorere Pk, E Domett Ra.)
- X - Xenicus area (Xenicus Pk, head of Cobb V.)
- P - Peel area (W Peel Ra.)
- L - Luna area (Mt Luna, S Arthur Ra.)
- M - Matiri-Allen area (N Matiri Ra, E Allen Ra.)
- C - Cobb area (upper Cobb V.)

GENERAL LOCATION AND GEOLOGY OF EACH AREA
 (Grid refs on Infomap 262-9 are for the centre of each
 area, mountain, or range (Geology from Grindley 1961, 1980, and
 Coleman 1981))

Area - Location	Geology	Grid ref.
	Paleozoic Sedimentary Rocks	
Stavens area (S), S Waka- matama Ra.	argillite, phyllite, quartzite, slate, quartzose sand- stone, schist	464046
Goulard Downs area (G)		456034
Waingaro area (W), W Lockett Ra.		472016
Aorere area (A), E Domett Ra.		467020
Xenicus area (X), head of Cobb V.		468017
Peel area (P), N Peel Ra., including:		
Mt Cobb		467016
Mt Prospect		470014
Mt Ranolf		470012
Luna area (L), S Arthur Ra.		465979
Matiti-Allen area, N Matiti Ra. and E Allen Ra.		462970
Cobb area, upper Cobb V.	472015	

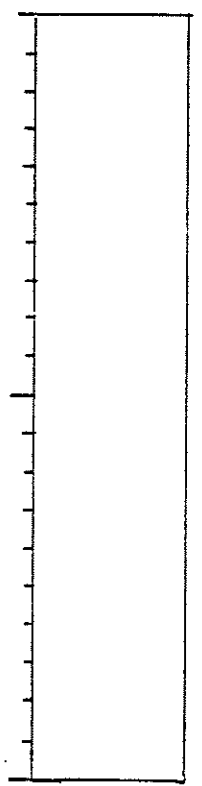
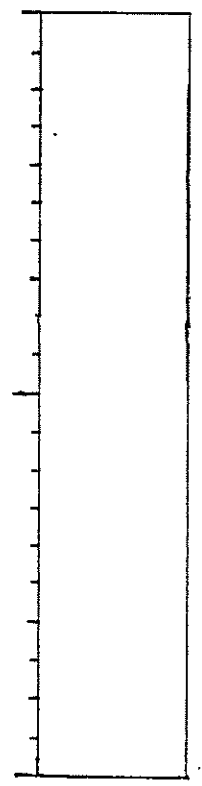
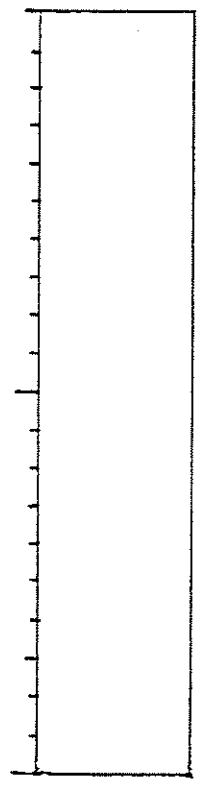
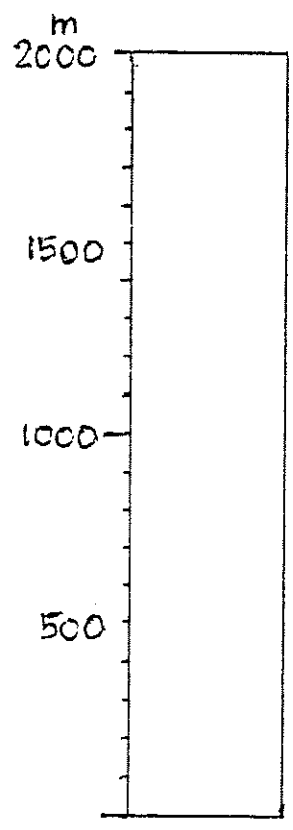
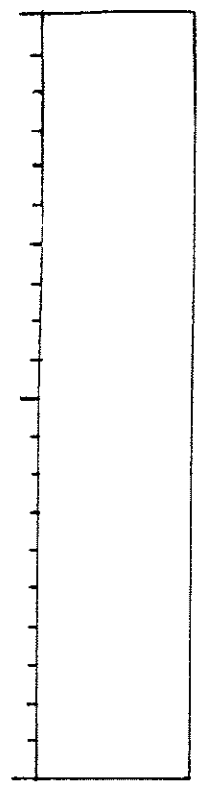
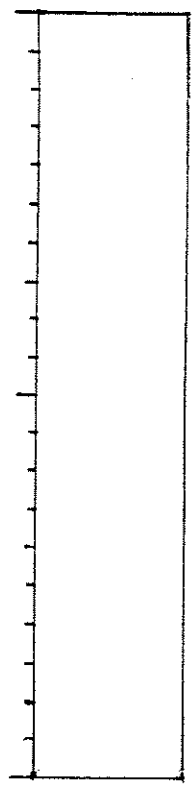
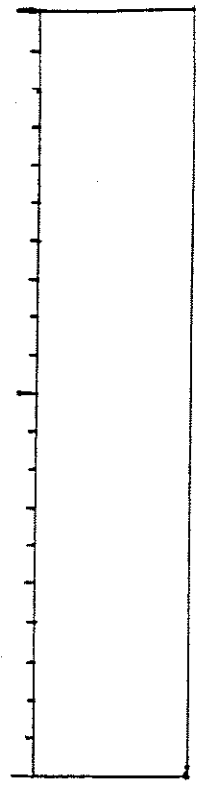
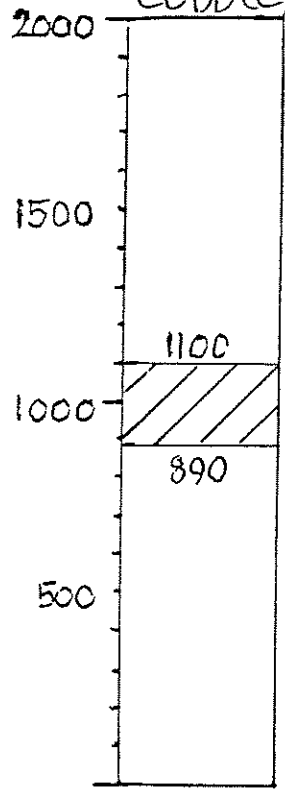


ALTITUDINAL RANGE OVER WHICH PLANTS WERE RECORDED
IN EACH AREA

The numbers in brackets refer to lists of plants compiled for each area and filed at Landcare Research

(234 part, incl. 230)

m
Cobb (C)



Field work in the western, non-calcareous, sedimentary mountains totalled 42 days*, mostly between 1973 and 1992. The separate areas were visited at the dates indicated below.

Stevens (S)	1 day in February in 1976 1 day in January in 1979
Goulard Downs (G)	3 days in January 1969 4 days in January 1973 1 day in March 1992
Waingaro (W)	1 day in January 1970 2 days in January 1980 1 day in March 1981 1 day in April 1983 1 day in December 1984 1 day in December 1988 1 day in November 1990
Aorere (A)	1 day in January 1970 1 day in January 1980 2 days in December 1981 1 day in February 1988
Xenicus (X)	many visits from 1969 onwards
Peel (P)	1 day in January 1970 2 days in March 1970 1 day in January 1980 1 day in November 1980 3 days in March 1982 2 days in December 1985 1 day in December 1989
Luna (L)	2 days in January 1971 2 days in January 1974 2 days in February 1982

*excluding many visits to Xenicus and Cobb areas

Matthi-Allen (M) 1 day in March 1981
1 day in March 1982
Cobb (C) many visits from 1969 onwards

The following participated in the field work: John Bartlett, Elizabeth Brown, Warren Burke, Shannel Courtney, Helen Druce, Tony Druce, Fay Jackson, Delia Findlay, Jean Findlay, John Findlay, Des Green, Anne Haydock, Ken Haydock, Arnold Heine, Jan Heine, Roland Heine, Gordon Leary, Sheelagh Leary, Barbara Mitcalfe, Margaret Mitcalfe, Geoff Park, Geoff Rogers, Tony Silbery, Barbara Simpson, Neill Simpson, Barry Sneddon, Peter Williams, and members of Wellington Botanical Society.

INDIGENOUS PLANTS (631 SPECIES)

GYMNOSPERM TREES AND SHRUBS

Dactydiuin copressinum (G)

Halocarpus bidwillii (G, X, P, C) [Dactydiuin bidwillii]

H. biformis (S, G, W, X, P, unc M, C) [Dactydiuin biforme]

H. bidwillii X H. biformis (unc G, unc C)

Lagarostrobos colensoi (unc G) [Dactydiuin colensoi]

Lepidothamnus intermedius (unc G) [Dactydiuin intermedium]

L. laxifolius (S, G, W, A, X, P, L, M, C) [Dactydiuin laxifolium]

L. intermedius X L. laxifolius (unc S, G, W, X, C)

Libocedrus bidwillii (G, unc L, unc M, unc C)

Phyllocladus alpinus s.s./P. sp.(a) (G, W, A, X, P, L, M, C)

P. alpinus s.s. (G, W, A, X, P; distribution elsewhere uncertain)

P. sp.(a) (G, C) (distribution elsewhere uncertain) (aff. P. alpinus; "lowland" ecotype of Wardle 1969) [P. alpinus in part]

Podocarpus acutifolius (unc G)

P. hallii (G, unc A, L)

P. nivalis (G, W, A, X, P, L, M, C)

P. acutifolius X P. hallii (unc G)

P. acutifolius X P. nivalis (unc G)

P. hallii X P. nivalis (unc A)

Prumnopitys ferruginea (G) [Podocarpus ferrugineus]

MONOCOTYLEDONOUS TREES AND SHRUBS

Cordyline indivisa (G)

C. banksii X C. indivisa (unc G)

DICOTYLEDONOUS TREES AND SHRUBS

Alseuosmia macrophylla (G)

Archamia traversii s.l. (incl. A. traversii var. australis) (S, G, W, X, P, L, M, C)

Aristotelia fruticosa var. (a) (G, W, A, X, P, unc L, C)

A. serrata (G)

A. fruticosa X A. serrata (unc C)

Brachyglottis adamsii (W, A, X, P) [Senecio adamsii]

B. bidwillii var. viridis (W, A, X, P, L, M) [Senecio bidwillii var. viridis]

B. rotundifolia var. (a) (incl. B. buchananii and B. cockaynei)

(S, G, unc W, A, X, unc P, unc L, unc M, C) [Senecio bennettii]

B. bidwillii X B. rotundifolia (unc A)

Carpodetus serratus (G)

Cassinia vauvilliersii (S, G, W, A, X, P, L, M, C)

Coprosma acerosa ssp. (b) (C) (wide-spreading dwarf shrubs)

C. atropurpurea (unc P) [C. petriei var. atropurpurea]

C. cheesemanii ss. (S, G, unc W, A, X, P, L, M, C)

C. ciliata ssp. ciliata (G, W, A, X, P, L, M, C)

C. colensoi ss. (G, W, P, L, M, C) [C. colensoi and C. banksii]

C. crenulata (S, G, W, A, X, unc P, unc L, M, C)

C. depressa (G, W, A, X, P, L, M, C)

C. foetidissima (G, P, L, M, C)

C. lucida s.s. (unc G)

C. microcarpa (G)

C. perpusilla ssp. perpusilla (G, W, A, X, P, L, M, C) [C. pumila in part]

C. propinqua ssp. propinqua (G, C)

C. pseudocuneata ssp. (a) (S, G, W, A, X, P, L, M, C) (lvs narrower than in ssp. pseudocuneata)

C. thamnoides s.l. (incl. C. polymorpha) (G)

C. rugosa ssp. rugosa (G, unc M, C)

C. setulata (unc P, L)

C. sp. (a) (S, G, P, L, C) (described as C. parviflora var. dumosa by Cheeseman 1906, non C. parviflora var. dumosa sensu Allan 1961; lf undersurface not minutely hairy as is usual in C. parviflora; drupes usually unpigmented, occasionally purplish red) [C. parviflora in part]

C. sp. (b) (S, G, W, A, X, P, L, M, C) [C. parviflora var. dumosa sensu Allan 1961]

C. sp. (c) (G) (aff. C. intertexta; prostrate or lianoid shrubs)

C. sp. (d) (W, A, X, P, L, M, C) (aff. C. pseudocuneata; low-growing shrubs with small thick arcuate lvs) [C. pseudocuneata in part]

C. sp. (e) (S, G, A, X, unc P, unc L, C) (aff. C. colensoi; low-growing shrubs with trailing branches) [C. colensoi in part]

C. chaesemanii x C. ciliata (unc G, unc X, unc P)

Cornaria plumosa (G, C)

Cyathodes dealbata (S, G, W, A, X, P, L, M, C) [C. pumila]

C. empetrifolia (S, G, W, X, P, unc M, C)

C. sp. (a) (S, G, P, C) (C. juniperina agg.); lvs small, usually < 1 cm x < 1 mm)

Dracophyllum longifolium var. (a) (incl. D. filifolium and D. olivetii) (S, G, W, A, X, P, L, C)

D. palustre (G)

D. pronum (G)

D. pubescens var. pubescens (S, G, W, A, X, P, L, M, C)

D. townsonii (G)

D. traversii s.l. (incl. D. pyramidale) (G, W, A, X, P, L, M, C)

D. uniflorum (S, G, W, A, X, P, L, M, C)

D. longifolium x D. palustre (G)

D. longifolium x D. pubescens (unc C)

D. longifolium x D. uniflorum (unc C)

D. pubescens x D. longifolium (unc C)

Elaeocarpus hookerianus (G, P)

Epaetis alpina (S, G, X, C)

E. pauciflora (unc G)

Exocarpus bidwillii (S, G, W, X, unc L, C)

Fuchsia excorticata (G, C)

Gaultheria antipoda (G, C)

G. crassa (G, W, A, X, P, L, M, C)

G. depressa s.s. (A, X, P, L, M)

- G. macrostigma (G, C) [Parnettia macrostigma]
G. nubicola (unc L) [Parnettia nana in part]
G. rupestris s.l. (incl. G. subcorymbosa) (G, unc M)
G. sp. (a) (S, G, W, A, X, P, L, M, C) (described as G. depressa var. novae-zelandiae by Franklin 1962)
G. antipoda X G. macrostigma (unc G)
G. antipoda X G. rupestris (unc G)
G. antipoda X G. sp. (a) (unc G, unc C)
G. crassa X G. nubicola (unc P)
G. macrostigma X G. rupestris (unc G)
G. macrostigma X G. sp. (a) (unc G, unc P, C)
G. rupestris X G. sp. (a) (unc S, unc G, unc W)
Griselinia littoralis (G, W, X, P, L, C)
Hebe albicans var. albicans (W, unc A, X, unc P, C)
H. canterburienensis (S, G, W, A, X, P, L, M, C)
H. eilolata (G, W, A, X, P, L, M)
H. cockayneana var. (a) (W, A, X, P, unc L)
H. gracillima (G)
H. haastii var. (a) (A, X, P) (aff. var. humilis; see Moore 1961, p. 94c)
H. macrantha var. brachyphylla (W, A, X, P, unc L, M)
H. odora s.s. (G, X, P, C)
H. salicifolia var. salicifolia (G, C)
H. tetragona var. (a) (incl. H. coarctata) (W, A, X, P, L, M, C)
H. topiaria (W, A, X, P, L, M, C)
H. venustula s.l. (incl. H. brachysiphon) (G)
H. vernicosa (W, unc C)
H. sp. (a) (incl. Leonchabe masoniae) (W, A, X, P, C) [H. pauciramosa var. masoniae]
H. sp. (b) (incl. Leonchabe mooreae) (S, G) [H. odora in part]
H. sp. (undetermined) (unc G)
Helichrysum intermedium var. (a) (X, unc P, L, M) [H. selago var. intermedium in part]
Hoheria lyallii var. (a) (incl. H. glabrata) (A, P, unc L, C)

Kunzea ericoides agg. (unc G)

Leptospermum scoparium (G, W, X, C)

Leucopogon fasciculatus var. (a) (G, X, P, C) (juvenile lvs not much broader than adult lvs) [Cyathodes fasciculata]

L. fraseri s.s. (G, A, X, P, L, M, C) [Cyathodes fraseri]

L. suaveolens (P, L, unc M) [Cyathodes colensei]

Melicetylus sp. (a) (unc P) (prostrate hermaphrodite shrubs; branches up to 40cm long, often rooting; lvs linear-oblong; fr white)

M. sp. (f) (W, A, X, P, L, M, C) (aff. M. alpinus; shrubs taller than in M. alpinus, up to 2.4m; spiny shoots point in all directions with average branch angle of c. 70°, whereas in M. alpinus they tend to point in one direction with an average branch angle of c. 50°; lvs broader than in M. alpinus) [Hymenanthera alpina in part]

Metrosideros parkinsonii (G)

M. umbellata (S, G, C)

Myrsine divaricata s.s. (S, G, W, A, X, P, L, M, C)

M. nummulata (G, W, A, X, P, L, M, C)

M. salicina (G)

Neomyrtus pedunculata (G)

Nothofagus fusca (G, C)

N. menziesii (G, W, A, X, P, L, M, C)

N. solandri var. cliffortioides (S, G, W, A, X, P, L, C)

N. truncata (G)

Olearia arborescens (S, G, C)

O. capillaris (unc G, unc X, unc C)

O. colensoi var. colensoi (S, G, W, X, unc P, L, M, C)

O. ilicifolia var. (a) (unc L) (lvs broader than in var. ilicifolia: laminae up to 3cm wide compared with 1.7cm, and length/breadth ratio 3.0-3.7 compared with 4.1-5.8)

- O. lacunosa var. lacunosa (S, G, A, X, P, L, M, C)
O. nummularifolia var. (a) (A, X, unc P, L, unc C) (vs oval, rather than suborbicular as in var. nummularifolia)
O. virgata var. implicata s.l. (incl. O. virgata var. divaricata and O. virgata var. laxiflora) (G, c)
O. arborescens X O. capillaris (unc G, unc C)
O. arborescens X O. ilicifolia (unc G)
O. arborescens X O. lacunosa (unc G, unc C)
O. ilicifolia X O. lacunosa (unc C)
Pentachondra pumila (S, G, W, A, X, P, L, M, C)
Peraxilla tetrapetala (unc G, unc C) [Elytranthe tetrapetala]
Pimelea gnidia var. gnidia (unc G)
P. longifolia (unc M)
P. oreophila (S, G, W, A, X, P, L, M, C) [P. pseudolyallii in part]
P. prostrata (unc C)
Pittosporum anomalum (G, unc A, X, unc P, C)
P. patulum (unc C)
P. rigidum var. (a) (incl. P. crassicaule) (S, W, X, P, L, M, C)
Pseudopanax anomalus (G, X, L, C) [Neopanax anomalum]
P. crassifolius (G)
P. linearis (S, G, W, X, L, C)
P. simplex s.l. (incl. P. simplex var. sindaitii) (S, G, W, A, X, P, L, M, C)
 [Neopanax simplex]
P. sp. (a) (S, G, W, A, X, P, L, M, C) (described as P. colensoi var. ternatus by Wardle 1968) [Neopanax colensoi in part]
P. anomalus X P. simplex (unc G)
Pseudowintera colorata (G, L)
P. traversii (S, G)
Quintinia serrata s.l. (incl. Q. acutifolia and Q. elliptica) (G)
Schefflera digitata (G)
Traversia baccharoides (unc P, unc L, c)
Weinmannia racemosa var. racemosa (G)

DICOTYLEDONOUS LIANES AND RELATED TRAILING PLANTS

Clamatis paniculata (unc G)

C. sp. (undetermined) (unc G)

Metrosideros diffusa (G)

Muehlenbeckia australis (unc G)

M. axillaris (unc G, W, A, X, P, L, C)

M. australis X M. axillaris (unc P, unc L)

Parsonsia sp. (unc G)

Rubus cissoides var. (c) (G, L, C) ("form c" of Allan 1961; flts broader than in var. cissoides)

R. parvus (unc G, unc W, X, unc C)

R. schmidelioides var. schmidelioides (c)

PSILOPSIDS, LYCOPODS, AND QUILLWORTS

Tmesipteris tannensis (unc G)

Lycopodium australianum (S, unc G, W, A, X, P, L, M, C)

L. fastigiatum (S, G, W, A, X, P, L, M, C)

L. laterale s.l. (incl. L. ramulosum) (G)

L. scariosum (S, G, W, A, X, P, L, M, C)

L. vatium (unc G, W, X, unc M, C)

L. volubile (unc G)

Isoetes alpinus (P, X, L, C)

FERNS

Adiantum cunninghamii (unc G)

Asplenium bulbiferum (G)

A. flabellifolium agg. (unc P)

A. flaccidum (G, X, P, L, C)

Blechnum discolor (G, M)

B. fluviatile agg. (G, X, P, L, M, C)

B. penna-marina (S, G, W, A, P, L, M, C)

B. procerum (S, G, W, X, P, L, M, C)

B. vulcanicum (G)

- Blechnum sp.(a) (G) (lowland sp.; lower pinnae reduced in length) [B. sp. 1]
- B. sp.(b) (S, G, A, X, P, L, M, C) (mountain sp.; lower pinnae not reduced in length; "The Dunedin-Cass Variety" of Crookes 1963) [B. sp. 3]
- B. procerum x B. sp.(a) (G)
- Cyathea colensoi (G, X, L, M, C)
- C. smithii (G)
- Cystopteris tasmanica (X, unc P, unc L)
- Dicksonia lanata ss. (G)
- Gleichenia dicarpa (G)
- Grammitis billardierei (G, A, X, P, L, M, C)
- G. givenii (unc A, unc M)
- G. magellanica ssp. nothofageti (G, L, M, unc C)
- G. patagonica (W, A, unc X, L, M, C)
- G. poeppigiana (G, W, A, X, P, L, M, C)
- Histiopteris incisa (G, unc P, L, C)
- Hymenophyllum armstrongii (G, unc M)
- H. demissum (G)
- H. flabellatum (G, L)
- H. lyallii (unc G)
- H. malingii (G, unc M)
- H. multifidum (S, G, W, A, X, P, L, M, C)
- H. peltatum (G, unc X, L, unc C)
- H. pulcherrimum (unc G)
- H. ratum (G, L, C)
- H. rufescens (G, L, M)
- H. scabrum (G)
- H. villosum (G, A, X, P, L, C)
- Hypolepis millefolium (W, X, P, L, M, C)
- H. rufobarbata (G, unc C)
- Leptopteris superba (G, L, M)

Lindsaea trichomanoides (G)

Ophioglossum coriaceum agg. (G, unc P, C)

Paesia scaberula (G, unc X, unc L, C)

Phymatosorus pustulatus (G) [P. diversifolius]

Polystichum cystostegia (W, unc A, unc X, unc P, L, M)

P. vestitum (S, G, W, A, X, P, L, M, C)

P. cystostegia X P. vestitum (unc L)

Pteridium exculentum (G)

Pyrosia cleagnifolia (G)

Schizaea australis (G, unc P)

Stichetus cunninghamii (G)

MONOCOTYLEDONOUS HERBS

ORCHIDS

Adenochilus gracilis (unc G, unc L, M, C)

Aperostylis bifolia (S, G, X, P, L, M, C)

Caladenia carnea agg. (unc G)

C. lyallii (S, unc G, W, A, X, P, L, C)

Chiloglottis cornuta (S, G, W, X, P, L, M, C)

Cotybas maeranthus (X, L)

C. trilobus s.s. (G, W, P, L, C)

C. sp. (a) (unc C) (aff. C. trilobus)

Dendrobium cunninghamii (G)

Eattia autumnalis (G)

E. mucronata s.s. (unc G)

Gastrodia cunninghamii (L)

Lyperanthus antarcticus (S, G, A)

Mictotis oligantha (unc G, W, C)

Prasophyllum edensoi (S, G, A, X, P, L, M, C)

Pterostylis australis (G, C)

P. banksii (G)

P. venosa (S, G, unc X, unc C)
P. sp. (d) (G) (aff. P. montana) [P. montana in part]
Thelymitra cyanea (S, G) [T. venosa]
T. formosa (unc G, unc M)
T. hatchii (S?, unc G)
T. longifolia ss (unc G)
T. pulchella (G)
T. sp. (undetermined) (A, X)
Townsonia deflexa (S, G, unc C) [Acianthus viridis]

GRASSES

Agrostis dyeri ss. / A. sp. (b) (S, G, W, A, X, P, L, M, C)
A. dyeri s.s. (A, X, P, L, C)
A. sp. (b) (W, A, X, P, L, M, C) (aff. A. dyeri but panicle not contracted) [A. dyeri in part]
A. muelleriana (A, P, uncl) [A. subulata in part]
A. oresbia (unc A)
A. pallescens (G)
A. personata (G, P, L, M, C) [A. parviflora]
Chionocholea australis (S, G, A, X, P, L, M, C) [Danthonia australis]
C. cheesemani (G, unc P) [Danthonia raoulii var. cheesemani]
C. conspicua ssp. conspicua (S, G, W, A, P, L, M, C) [D. conninghamii]
C. pallens ssp. pallens (S, G, W, A, X, P, L, M, C) [D. raoulii in part]
C. rubra ssp. occulta (S, G, W, A, X, P, L, M, C) [D. raoulii in part]
C. sp. (a) (W, A, unc X, P, L, unc M, C) (C. flavescens auct. South Island, non C. flavescens Zotov; If blade green on abaxial surface, glaucous on adaxial surface, wide, strap-like, without midrib, or with faint midrib on abaxial surface only) [Danthonia raoulii var. flavescens in part]
C. australis X C. pallens (unc X, unc P, unc M)
C. australis X C. rubra (unc S, unc G, unc C)
C. conspicua X C. rubra (unc S, unc G, unc C)
C. pallens X C. rubra (unc S, G, unc C)
C. rubra X C. sp. (a) (unc X, unc L, unc M, unc C)

- Deschampsia novae-zelandiae (incl. D. chapmanii?) (P, unc L, C)
D. tenella (G, W, X, P, L, C)
Deyouzia aucklandica (S, G, W, A, X, P, L, M, C) [D. setifolia]
D. avenoides s.l. (incl. D. avenoides var. brachyantha) (G, C)
Elymus ensisii (unc C) [Agropyron aristatum]
E. sp. (a) (L) (aff. E. rectisetus; plants usually glaucous; lf blade usually flat, up to 5mm wide; awns 4-6cm long) var. (a) (culms erect or ascending) [Agropyron scabrum in part]
Festuca sp. (a) (L) (slender, tufted, green or glaucous green plants with setaceous lvs) [F. tubra in part]
F. sp. (b) (G, X, P, L, C) (aff. F. matthewsii; plants tufted but not tussock-forming)
Hierochloa novae-zelandiae (S, G, W, A, X, P, L, M, C) [H. fraseri in part]
H. recurvata (unc P) [H. fraseri var. recurvata]
Koeleria cheesemanii (unc A, unc P) [Trisetum cheesemanii]
Lachnagrostis lyallii ss (incl. L. filiformis var. semiglabra) (P, C) [Deyouzia forsteri var. semiglabra]
L. sp. (c) (P, unc C) (glumes up to 4mm long; awns short or absent) [Deyouzia forsteri in part]
Microlaena avenacea (G, L, C)
M. colensoi ss. (S, G, W, A, X, P, L, M) [Ehrharta colensoi]
M. stipoides (G)
M. thomsonii (G) [Ehrharta thomsonii]
Poa breviglumis (G, A, X, P, L, M, C) [P. imbecilla var. breviglumis]
P. celsa (A, X, P, L, M, unc C) [P. kirkii in part]
P. cita ssp. cita (A, L) [P. caespitosa]
P. colensoi (G, W, A, X, P, L, M, C)
P. dipsacea (unc W, unc X, unc P, unc C) [P. cheesemanii & P. dipsacea]
P. imbecilla (C)
P. kirkii (A, P, L, M)
P. maia (S, unc G, P, M, unc C)
P. novae-zelandiae ss. (A, P)
P. pusilla (unc G, unc C)
P. subvestita (W, X, P, L) [P. novae-zelandiae var. subvestita]

- P. colensoi X P. novae-zelandiae (unc A) (Edgar 1986)
Rytidosperma australe (unc C) [Triodia australis]
R. buechananii (G) [Danthonia buechananii]
R. gracile (G, X, P, L, M, C) [Danthonia semiannulata in part]
R. nigricans (S, G, W, X, unc P, M, C) [Danthonia semiannulata
 var. nigricans]
R. setifolium (S, G, A, X, P, L, M, C) [Danthonia semiannulata
 var. setifolia]
Simplicia buechananii (unc P)
Trisetum youngii (W, unc X, A, P, L, M)
T. sp. (a) (G, P, L, M) (plants slender; lf sheath glabrous or nearly
 so; lf blade flat, up to 2.5 mm wide, margins smooth,
 usually with a few hairs near ligule) [T. antarcticum
 in part]
T. sp. (b) (P) (described as T. antarcticum ssp. tenellum by
 Pathe 1912) [T. antarcticum var. tenellum]

SEDGES

- Baumea teretifolia (unc G)
Carex aciculata s.l. (incl. Callani) (S, G, W, A, X, P, L, M, C)
C. breviculmis (unc G, C)
C. capillacea (unc G)
C. carsei (G)
C. cockayneana (G, unc C)
C. comans (C)
C. dallii (G, unc C)
C. dissita s.s. (G)
C. echinata (G, W, X, P, L, unc M, C)
C. flaviformis (unc P, C)
C. gaudichaudiana (G, W, unc P, L, unc M, C)
C. kirkii s.l. (incl. C. kirkii var. alatiior (unc C)
C. lessoniana (G)
C. libata (G, A, X, unc P, unc L, M, C)
C. pyrenaica var. cephalotes (A, unc X, P, unc M)
C. sinclairii (G, W, A, X, P, L, C)
C. trachycarpa (unc X, L)

C. wakatipu s.s. (unc P, L, M)

C. sp. (a) (unc W, L, C) (aff. C. testacea but lvs broader, usually reddish, and utricle margins not scabrid) [C. testacea in part]

C. sp. (d) (S, M, C) (aff. C. coriacea but lvs slender, bright green, not becoming stiff and yellow-green in exposed sites; utricles similar to those of C. coriacea, faintly to obscurely nerved; beak minute or absent) [C. geminata in part]

C. sp. (e) (S, unc G) (aff. C. dissita but plants much smaller)

Carpha alpina s.s. (S, G, W, A, X, P, L, M, C)

C. sp. (a) (G) (aff. C. alpina but taller and more slender, and with narrower, acute lvs; see Edgar 1970, p. 200)

Eleocharis acuta (G, X, unc P, C)

E. gracilis (G, C)

E. pusilla (unc C)

Gahnia pauciflora (G)

G. procera (S, G, W, X, P, unc M, C)

G. rigida (unc G)

Isolapis aucklandica (S, G, A, X, P, L, M, C) [Scirpus aucklandicus]

I. caliginis (G, unc C) [Scirpus caliginis]

I. habra (G, W, P, L, C) [Scirpus habrus]

I. reticulatis (unc G) [Scirpus reticulatis]

I. subtilissima (G, C) [Scirpus subtilissimus]

Lepidosperma australe (G)

Oreobolus impar (S, G, A, unc X, L, M, C)

O. pectinatus (S, G, W, A, X, P, L, M, C)

O. strictus (S, G, W, A, X, unc P, L, M, C)

Schoenus maschalinus (unc G)

S. pauciflorus s.s. (S, G, W, A, X, P, L, M, C)

Uncinia astonii (S, G, P, C)

U. caespitosa (X, P, L)

U. clavata (G, P, L, C)

U. distans (G)

U. divaricata (S, G, W, A, X, P, L, M, C)

U. drucei (unc W, unc P, unc L, unc M)

U. egmontiana (G, C)

U. filiformis (G, W, A, X, P, L, M, C)

U. fuscovaginata var. (a) (G, W, X, P, L, M, C) (plants glaucous)

U. gracilentata (G, L)

U. involuta (L, M, unc C)

U. longifructus (unc P, unc L, unc C)

U. nervosa s.s. (A, X, unc P, L, M)

U. rubra (G, C)

U. rupestris s.l. (incl. U. angustifolia) (S, G, A, L, M, C)

U. silvestris s.l. (incl. U. affinis) (S, G, A, X, P, L, M, C)

U. uncinata (G, L)

U. zotovii (G)

U. sp. (a) (S, G, unc C) (aff. U. nervosa but plants more slender; see Edgar 1970, p. 231) [U. nervosa in part]

U. sp. (b) (A, P, C) (U. affinis sensu Hamlin 1959, non U. riparia var. affinis Clarke; see Nootboom 1978)

U. sp. (or spp.) (undetermined) (W)
undetermined sedge (unc X)

RUSHES AND ALLIED PLANTS

Centropus ciliata (G, P, M)

Empodisma minus (S, G, M, C) [Calotophus minor]

Gaimardia setacea (G, X, P, C)

Juncus antarcticus (G, W, A, X, unc P, C)

J. gragiflorus (G)

J. novae-zelandiae (G, W, A, X, P, L, M, C)

J. planifolius (G)

J. pusillus (unc G, W, unc P, unc L, C)

Luzula colensoi (G, A, X, P, unc L)

L. migrata (G, W, A, X, P, L, M, C) [L. banksiana var. migrata]

L. picta s.s. (S?, G, unc M, C)

L. tufa s.s. (unc A)

L. subclavata (unc P) [L. picta var. pallida]

L. traversii s.s. (unc L)

L. sp. (a) (S, G, X, L, C) [L. picta var. limosa]

L. sp. (b) (W, A, P, L) [L. crenata var. patriciana]

L. sp. (c) (unc C) [L. Fufa var. albicans]

L. sp. (d) (unc C)

L. sp. (e) (unc C) (aff. L. rufa but plants stoloniferous and infl head smaller) [L. rufa in part]

L. colensoi X L. migrata (G, A, X, unc P)

Matsippospermum gracile (W, A, unc X, P, uncl, unc M)

MONOCOTYLEDONOUS HERBS OTHER ORCHIDS, GRASSES, SEDGES, RUSHES AND ALLIED PLANTS

Arthropodium candidum (unc P, C)

Astelia fragrans (G)

A. graminea (G, W, A, X, P, L, M, C)

A. linearis s.l. (incl. A. linearis var. novae-zelandiae) (G, W, A, X, P, L, M, C)

A. nervosa s.s. (G, A, X, P, L, M)

A. nivicola s.s. (G, W, A, X, P, L, M)

A. petriei (W, A, X, P, uncl, C)

A. skottsbergii (G, W, A, X, P, L, M, unc C)

A. subulata (G)

A. trinervia (G)

A. sp. (a) (G, W, A, X, M, C) [A. nivicola var. moiticeae]

A. sp. (b) (S, G, W, X, P, L, M, C) (aff. A. nervosa but lvs broader and not conspicuously white adaxially) [A. nervosa in part]

Bulbinella hookeri (W, unc X, unc P, C)

B. talbotii (G)

Dianella nigra (G)

Herpolirion novae-zelandiae (G, unc X, unc M, C)

Libertia ixioides (G)

L. peregrinans (G)

L. pulchella (G, W, P, L, M, C)

Lozuriaga parviflora (G, W, A, P, C)

Phormium cookianum (S, G, W, A, X, P, L, M, C)
Potamogeton cheesemanii (P, uncl, C)
P. suboblongus (unc G, X, unc P, C)

DICOTYLEDONOUS HERBS

COMPOSITES

Abrotanella caespitosa (S, G, X, unc P, C)

A. linearis s.s. (G, W, X, P, L, M, C)

A. pusilla (A, unc P, uncl)

Anaphalis ketiensis s.s. (G) [Gnaphalium ketiense]

A. sp. (a) (S, G, W, A, X, P, L, M, C) [Helichrysum bellidioides s.s.]

A. ketiensis x A. sp. (a) (unc G)

Brachyglottis sp. (a) (S, G, W, A, X, P, L, M, C) (included in B. bellidioides, as var. crassa, by Nordenstam 1978) [Senecio bellidioides in part]

Brachyscome radicata (unc G, W, P, unc L)

B. sinclairii s.s. (W, X)

Celmisia alpina s.s. (W, A, X, unc P, L, unc M, C)

C. armstrongii (S, G)

C. bellidioides (W, X, unc P, L)

C. dallii (unc S, G, W, A, X, L, M, C)

C. gibbsii (W, A, X, P)

C. hieracifolia ssp. hieracifolia (W, A, X, P, C)

C. incana s.l. (incl. C. discolor) (S, G, W, A, X, P, L, M, C)

C. laurifolia (W, A, X, P, L, M, C)

C. lateralis s.l. (incl. C. lateralis var. villosa) (W, A, unc P, uncl, M)

C. montoi ssp. (b) (G, W, A, X, P, L, M, C) (described as C. coriacea var. laucifolia by Cheeseman 1925)

C. parva (G)

C. petraei (W, A, uncl, M)

C. rupestris (W, A, X, P)

C. sessiliflora (G, A, X, P, L)

C. similis (S, G, W, A, X, unc P, L, M, C)

C. sinclairii s.l. (incl. C. allanii and C. durietzii) (W, A, X, P, L)

C. spectabilis ssp. spectabilis (G, W, A, X, P, L, M, C)

C. traversii (W, A, X, P, unc C)

C. sp. (a) (aff. C. gracilentata; plants tufted; lvs linear to linear-lanceolate, up to 45 x 1.2 cm) ssp. (a) (L) (upper surface and margins of lf thinly covered in tomentum; lower surface densely covered) [C. gracilentata in part]

C. sp. (a) ssp. (b) (G, A) (lower surface glabrous)

C. sp. (b) (unc P, L, C) (aff. C. gracilentata; plants strongly rhizomatous) [C. gracilentata in part]

C. alpina X C. similis (unc A)

C. armstrongii X C. dallii (Brookie 1957) (unc G)

C. armstrongii X C. parva (unc G)

C. armstrongii X C. similis (unc S, unc G)

C. armstrongii X C. spectabilis (unc G)

C. dallii X C. parva (Pettersen and Pettersen, 1968) (unc G)

C. hieracifolia X C. similis (unc C)

C. laricifolia X C. sessiliflora (unc A)

C. laricifolia X C. spectabilis (unc G)

C. lateralis X C. similis (unc M)

C. sessiliflora X C. traversii (unc A)

C. sessiliflora X C. sp. (undetermined) (unc X)

C. similis X C. spectabilis (unc W, unc X, unc P, unc L, unc M)

C. spectabilis X C. traversii (unc C)

Craspedia sp. (a) (W, L, C) (summer-green plants, in wet and dry flushes including screes; lvs white or greenish white; both surfaces densely clad in cottony hairs that mat together to form a felt closely appressed to the lf surface; beneath the felt both surfaces are densely covered in minute glandular hairs; fls white)

C. sp. (c) (P, L, M, C) (summer-green plants in bogs and in moist herbfields and tussock lands; lvs green; lamina narrowing gradually to long petiole; both surfaces clad in long multicellular non-glandular hairs, with or without cottony tips, overtopping short glandular hairs; margins faintly to distinctly white with cottony hairs; fls white)

C. sp. (d) (G) (small summer-green plants, usually in bogs; lvs green; lamina almost as broad as long, narrowing abruptly to slender petiole about as long as lamina; both surfaces clad in long multicellular non-glandular hairs, with or without cottony tips, overtopping short glandular hairs; margins not white, or very faintly so with a thin band of cottony hairs; fls white)

C. sp. (k) (P) (summer-green plants in herbfield on periodically-inundated lake margins; lvs green to white, linear-lanceolate; both surfaces thinly to densely clad in cottony hairs; fls white)

C. sp. (e) (C) (summer-green plants in periodically-inundated shrub-herb field; lvs green; fls white)

C. sp. (bb) (W, X) (summer-green plants in seepages; lvs green; both surfaces clad in short non-glandular hairs; fls white)

C. sp. (or spp.) (undetermined) (W, A, X, P) (summer-green plants; lvs green; fls white)

Dolichoglottis scorzoneroides (W, A, X, P, L, M, uncc) [Senecio scorzoneroides]

Gnaphalium acaudax (uncl, c) [G. collinum in part]

G. delicatum (unc G) [G. collinum in part]

- G. laterale (W, unc X, C) [G. paludosum in part]
G. limosum s.s. (unc G, C) [G. collinum in part]
G. machayi s.s. (W, A, X, P, L, M, C) [G. traversii in part]
G. paludosum s.s. (unc G, unc P, C)
G. polylepis (unc P) [G. paludosum in part]
G. ruahinicum (G, unc P, L, C) [G. collinum in part]
G. traversii (C)
G. sp. (d) (G) (aff. G. paludosum; lvs linear, green on upper surface)
 [G. paludosum in part]
Haastia sinclairii s.s. (W, P, M)
Helictyrum filicaule (unc G, C)
Lagenifera cuneata (unc L, C)
L. montana (unc G)
L. petiolata (G, C) [L. pumila var. multidentata]
L. pinnatifida (unc P, unc L)
L. pumila (G)
L. strangulata (G, W, A, X, P, L, C) [L. petiolata]
Lepturella pyrethrifolia agg. (W, X, P, L) [Cotula pyrethrifolia]
L. sp. (b) (G, W, A, X, P, L, M, C) (included in L. squalida, as ssp. mediana, by Lloyd and Webb, 1987) [Cotula squalida in part]
L. sp. (d) (W, C) (aff. L. squalida and L. sp. b but pinnae entire or almost so) [Cotula squalida in part]
Leucogones grandiceps (W, A, X, P, unc L, M)
Microsetis scapigera (G, W, X, P, L, M, C)
Pseudognaphalium sp. (a) (G, unc C) (aff. Pluteoalbum; lvs mostly linear-spathulate to linear, acute) [Gnaphalium luteoalbum in part]
Raculia eximia s.l. (incl. R. rubra) (G, W, A, X, P, L, M)
R. glabra (unc G, W, A, unc X, unc P, L, M, C)
R. grandiflora var. grandiflora (S, G, W, A, X, P, L, M, C)
R. tenuicaulis s.l. (incl. R. tenuicaulis var. dimorpha and R. tenuicaulis var. pusilla) (G, C)

Senecio minimus (G) [Erechtites minima var. heterophylla
and E minima var. angustata]

S. wairauensis (A, X, P, L, M, C) [Erechtites wairauensis]

Taraxacum magellanicum (W, A, X, P, L)

DICOTYLEDONOUS HERBS OTHER THAN COMPOSITES

Acaena ansetinifolia (G, W, C) [A. ansetinifolia, A. pusilla,
A. pusilla var. suprasericascens, and A. vitidior]

A. fissistipula (unc P)

A. inermis (unc L, C) [A. inermis, A. microphylla var. robusta,
and A. microphylla var. pallideolivacea]

A. juvenca (unc C) [A. ansetinifolia in part]

A. profundeincisa (W, A, X, P, L, M, C) [A. ansetinifolia var.
sericeinitens and A. ansetinifolia var. paucidentis]

Aciphylla anomala (P, L, M)

A. colensoi var. colensoi (A, X, P, L, unc C)

A. fetox (W, A, X, P, unc L, M)

A. hookeri (unc G)

A. polita var. (a) (G, W, A, X, P, L, M) (If segments coarser than in
var. polita and stipules mostly simple; forms with particularly
coarse segments are included here as they appear to
grade into the usual form and are not separated ecologic-
ally; see Dawson and Le Comte, 1978)

A. sp. (c) (P) (aff. A. glaucescens but pinnae very rigid)

A. colensoi X A. polita (unc A)

A. colensoi X A. fetox (unc X)

Actinotis novaezelandiae (G) [Hemiphys suffocata var.
novaezelandiae]

Anisotome aromatica (G, W, A, X, P, L, M, C) [A. aromatica vars
flabellifolia, incisa, major, obtusata, and pinnatisecta]

A. daltoidea (G, W, A, X, P, L, C)

A. filifolia (W)

A. haastii (unc G, A, X, P, L, M, C)

A. pilifera (W, A, X, P, unc L)

A. sp. (a) (A, X, P, unc C) (aff. A. sp. b; plants rhizomatous but not usually forming dense mats; pinnae without hair-tip or with only a short one; infls up to 5 cm, not hidden amongst the lvs)

A. sp. (b) (A, unc P, L, M) (described as A. imbricata var. prostrata by Dawson 1961) [A. imbricata in part]

A. pilifera × Aciphylla sp. (undetermined) (unc A)

Cardamine sp. (a) (unc P, C) (aff. C. corymbosa; plants slender; fls petalous or apetalous—petalous 4–6 mm diam.) [C. corymbosa in part]

C. sp. (b) (A, X, P, L, C) (C. debilis agg.; "Long Style" of Pritchard 1957)

C. sp. (c) (G) (C. debilis agg.; "Narrow Petal" of Pritchard 1957)

C. sp. (d) (G, C) (C. debilis agg.; "Glossy Leaf" of Pritchard 1957)

C. sp. (e) (G, P, L) ("Tussock Race" of Pritchard 1957)

C. sp. (f) (W, unc A, X, unc P, unc L, C) (lvs mostly simple, occasionally with up to two pairs of pinnules; blades ± reniform)

C. sp. (i) (W, A, X, P, L, M) ("Scree Race" of Pritchard 1957)

C. sp. (undetermined) (unc C) (C. debilis agg.)

Cheesemaniania latisiliqua s.l. (incl. C. gibbsii) (unc A, X, unc P, unc L)

Chionohebe pulvinatis (M) [Pygmaea pulvinatis]

Colobanthus aciculatis (unc P)

C. affinis (W, A, X, unc P, L)

C. apetalus s.l. (incl. C. apetalus var. alpinus) (G, unc P)

C. canaliculatus s.s. (W, A, unc P, unc L)

C. wallii s.l. (incl. C. masoniae) (A, unc P)

C. sp. (a) (unc P, unc L) (aff. C. buechananii)

Coprosma talbrockiei (unc G)

Crassula sinclairii (unc P, unc C) [Tillaea sinclairii]

Donatia novae-zelandiae (S, G, X, P, L, M, C)

Drosera arcturi (G, W, A, X, P, L, M, C)

D. spathulata (S, G, W, X, unc P, L, M, C)

D. stenopetala (S, G, W, X, L, M, C)

Elatine gratiolooides (unc C)

- Epilobium alsinoides s.s. (G) [E. alsinoides and E. thymifolium]
E. atriplicifolium s.s. (unc X) [E. alsinoides in part and E. novae-zelandiae]
E. brunnescens s.s. (G, W, A, X, unc P, L, C) [E. pedunculata var. brunnescens]
E. chortifolium (W, A, X, P, L, M)
E. cockayneanum (G, A, X, P, L, M, C)
E. glabellum s.s. (W, A, X, L) [E. erubescens and E. glabellum]
E. insulare (G)
E. komarovianum (unc P, C) [E. netteroides * E. netteroides var. minimum]
E. linnaeoides (G, C)
E. macropus (A, unc P)
E. margaretae (P)
E. netteroides (G) [E. pedunculata var. viride]
E. pernitens (S, G, W, A, X, P, L, M, C)
E. porphyrium (A, unc P)
E. pubens (unc G, unc C) [E. pubens and E. pubens var. strictum]
E. rotundifolium (G)
E. rubromarginatum (W, unc P, L, M)
E. tasmanicum (W, A, unc P)
E. sp. (a) (W, A, P, unc L, M) (included in E. brunnescens, as ssp. minutiflorum, by Raven and Engelman, 1971) [E. pedunculata var. minutiflorum]
E. sp. (c) (W, A, X, P, unc L) (aff. E. glabellum; lvs spotted with red; fls pink) [E. glabellum in part]
Euphrasia cheesemani (unc L)
E. petrei (W, A, X)
E. revoluta (unc W, unc P, unc M)
E. townsonii s.s. (S, G, W, A, X, P, L, M, C)
E. zelandica agg. (M)
E. sp. (e) (G, W, A, X, P) (aff. E. laingii) [E. laingii in part]
E. sp. (undetermined) (unc M)
Forstera mackayi (S, G, W, A, X, P, L, M, C)
F. sedifolia s.s. (W, A, X, P, unc L)
F. tenella (S, G, W, X, unc P, L, M, C)

Galium perpusillum ss. (G, A, L, C)

Gentiana bellidifolia (W, X?, P, L, M, C)

G. filipes (unc C)

G. gracilifolia s.l. (incl. G. vernicosa) (S, G, W, A, X, P, L, M, C)

G. matthewsii (unc C)

G. montana s.l. (incl. G. montana var. stolonifera, G. patula, and G. bellidifolia var. pulchella) (G, W, A, X, P, L?, M, C)

G. spenceri (S, G, W, X, P, unc M, C)

G. sp. (a) (W, A, X, P, L, C) (aff. G. bellidifolia; plants perennial, forming small to large patches; stems decumbent; lvs very glossy, folded, tips deflexed; fls large, creamy white) [G. bellidifolia in part]

G. sp. (d) (P, unc L, M) (described as G. bellidifolia var. australis by Cheeseman 1925) [G. bellidifolia in part]

G. sp. (f) (C) (aff. G. montana, but usually biennial, rarely perennial, and multi-branched from base)

G. sp. (g) (P, L?) (aff. G. corymbifera, but stems usually multi-branched)

Geranium sessiliflorum var. novae-zelandiae (C)

G. sp. (c) (G, W, A, X, P, L, M, C) (aff. G. microphyllum) [G. microphyllum in part]

Geum leiospermum (unc G, W, A, unc P, L, C)

G. uniflorum (W, A, X, P, L, M)

G. sp. (a) (W, A, X, P, L, C) (G. parviflorum agg.; stock short; terminal flt about as long as broad; fls up to 13 mm diam.) [G. parviflorum in part]

G. sp. (b) (W, X, unc C) (G. parviflorum agg.; stock creeping and branching; terminal flt slightly longer than broad; fls up to 8 mm diam.) [G. parviflorum in part]

G. leiospermum x G. sp. (b) (unc C)

G. sp. (a) x G. sp. (b) (?) (unc C)

Gingidia decipiens (X, P) [Angelica decipiens]

G. montana (A) [Angelica montana]

Glossostigma elatinooides (unc L)

Gonocarpus aggregatus (G, W, X, unc P, C) [Haloragis depressa]

G. micranthus ssp. micranthus (G, X, unc P, uncl, C) [Haloragis micrantha]

Gratiola nana (G, unc P)

Gunnera dentata var. dentata (unc G)

G. monica (G) [G. albocarpa, G. monica, and G. strigosa]

G. protepens (G) [G. flavida and G. protepens]

Hydrocotyle microphylla (G, L, C)

H. moschata (C)

H. sulcata (G, W, P, uncl, C) [H. tripartita in part]

H. sp. (a) var. (a) (W, A, X, P, L, C) [H. novae-zeelandiae var. montana]

Hypericum japonicum agg. (unc M)

Hypsela sp. (a) (unc P, unc C) (plants very small; fls 3 mm diam.; corolla lobes narrowly lanceolate)

Jovellana repens (G)

Kelleria dieffenbachii (S, G, W, X, P, M?, C) [Drapetes dieffenbachii]

K. laxa (S, G, W, unc A, X, unc P, uncl, C) [Drapetes laxus]

K. multiflora (G, W, A, X, P, L, M) [Drapetes multiflorus]

K. tessellata (G, W) [Drapetes villosus in part]

Lilaeopsis ruthiana (unc P, L, C)

Liparophyllum gunnii (G)

Limosella lineata agg. (unc P, C)

Mazus radicans (unc L)

Mantha cunninghamii (G, L, C)

Mitrasacme montana var. halmisii (G) (Given 1981)

M. novae-zeelandiae (G, X, unc P)

Montia fontana s.s. (unc G, W, A, unc P, C)

Myosotis forsteri (unc C)

M. lyallii s.l. (incl. M. lyallii var. townsonii + M. elderi) (unc X, unc P)

M. mactantha (W, unc A, X, unc P, uncl)

M. tanericaulis (unc C)

M. sp. (b) (unc X, unc P, unc L) (M. australis agg.; fls small, white)

M. sp. (c) (unc G, unc P) [M. pygmaea var. drucei]

Myriophyllum pedunculatum ssp. novae-zeelandiae (G, unc P, unc L, C)

M. triphyllum (unc X)

M. propinquum (unc L)

M. triphyllum (P, unc C) [M. elatinioides]

Neopaxia sp. (b) var. (a) (W, A, X, P, L, M, C) (described as Claytonia calycina by Colensoi 1896) [Claytonia australasica in part]

Nertera balfouriana (G, P, L, unc M, C)

N. ciliata (S, G, W, unc A, X, P, L, M, C)

N. depressa s.l. (incl. N. cunninghamii) (G)

N. scapanioides (G) [N. setulosa in part]

N. sp. (a) (G, L, C) (aff. N. dichondrifolia but hairs present on both surfaces of lf, straight, not hooked) [N. dichondrifolia in part]

Notothlaspi sp. (b) (W, A, X, P) (N. australe auct., non Thlaspi australe Hook. f.) [N. australe]

Oreomythis colensoi s.s. (incl. O. colensoi var. hispida and O. colensoi var. multifida) (G, W, X, P, L, M, C)

O. rigida (unc C)

O. sp. (d) (A, P, C) (aff. O. ramosa) [O. ramosa in part]

Oreostylidium subulatum (S, G, W, unc P, C)

Oursia caespitosa ssp. caespitosa (W, A, X, P, L, M)

O. goulardiana (G)

O. lactea ssp. lactea (W, A, X, P, L, M, C) [O. macrophylla var. lactea]

O. macrocarpa ssp. calycina (G, unc X, M)

O. sessilifolia ssp. sessilifolia (A, P, L)

O. simpsonii (S, G, W, A, X, P, L, unc M) [O. sessilifolia var. simpsonii]

O. simpsonii X O. sp. (undetermined) (unc G)

Oxalis magellanica (S, G, W, A, X, P, L, M, C) [O. lactea]

O. sp. (undetermined) (unc G)

Parahеbe cheesemanii (W, unc P, L)

P. decora (W, unc P)

P. lyallii (G, W, X, unc P, L, M, C)

Phyllachne clarigera s.l. (incl. P. colensei) (S, G, A, X, P, L, M)
Plantago lanigera/P. novae-zealandiae (G, W, A, X, P, L, M, C)
P. raculii (G, W, X, P, C)
P. triandra s.s. (unc P, C)
P. uniflora (G, A, X, P, L, M, C)
Pratia angulata agg. (G, W, A, X, P, L, M, C)
P. macrodon s.s. (W, A, X, unc P)
Psychrophila novae-zealandiae (G, W, A, X, P, L, M, C) [Calltha novae-zealandiae]
Ranunculus altus (P, C) [R. hirtus in part]
R. cheesemani var. cheesemani (L, C)
R. foliosus (G, W, A, X, P, L, C) [R. foliosus, R. insetus, and R. porrectus]
R. glabrifolius (X, unc P, C) [R. livularis in part]
R. gracilipes (unc X) [R. gracilipes and R. sinclairii]
R. insignis (W, A, X, P, L, M, C) [R. insignis, R. lobulatus, and R. montei]
R. membranifolius (M, C) [R. hirtus in part]
R. reflexus (A) [R. hirtus in part]
R. simulans (unc X, unc C) [R. depressus var. stewartiae]
R. ternatifolius (unc C)
R. verticillatus (unc G, W, A, X, P, L, M, C) [R. clivalis]
R. sp. (c) (C) (described as R. lappaceus var. macrophyllus by Kirk 1899) [R. lappaceus in part]
R. sp. (h) (unc P, unc C) (aff. R. foliosus, but lvs more dissected)
R. ternatifolius X R. sp. (g) (unc C)
Schizailema haastii s.s. (W, A, X, P, L, M)
S. nitens (G, A, X, P, C)
S. roughii (M)
S. trifoliolatum (C)
S. sp. (a) (W) (described as S. haastii ssp. cyanopetalum by Domin 1908) [S. haastii var. cyanopetalum]
Scleranthus brocklei (unc L)
S. uniflorus (unc P, L, unc C)

Stellaria decipiens s.l. (incl. S. parviflora) (G, W, A, X, P, L, C)
S. gracilanta (W, unc A, X, P)
Urtica incisa (P, C)
Viola cunninghamii (G, W, X, P, M, C)
V. filicaulis (S, G, L, M, C)
V. lyallii (G, A, unc P, L, C)
Wahlenbergia albomarginata var. albomarginata s.l. (incl.
W. breckiaii and W. pygmaea var. laxa) (unc G, W, A, X, P, L, M, C)

No. of indigenous species listed for each area:

Stevens (S) : 108
Goulard Downs (G) : 403
Waingaro (W) : 231
Aotere (A) : 220
Xenicus (X) : 273
Peel (P) : 340
Lund (L) : 293
Matiti-Allen (M) : 213
Cobb (C) : 349

ADVENTIVE PLANTS (40 SPECIES)

DICOTYLEDONOUS TREES AND SHRUBS

Ulex europaeus (G)

MONOCOTYLEDONOUS HERBS

GRASSES

Agrostis capillaris (A, X, P, C)

A. stolonifera (G)

Aira caryophyllea (unc C)

Anthoxanthum odoratum (G, X, C)

Bromus hordeaceus (unc C)

Dactylis glomerata (unc G, C)
Festuca arundinacea s.l. (unc G, C)
F. nigrescens (unc G, A, X, C)
F. tenuifolia (unc C)
Holcus lanatus (G, X, P, C)
Lolium perenne (unc G, unc C)
Poa annua (G, X, P, C)
P. pratensis (G, X, P, C)

SEDGES

Carex ovalis (G, X, P, C)
Isolopis setacea (unc G)

RUSHES

Juncus articulatus (G, X, C)
J. bufonius (unc G, X, unc C)
J. bulbosus (C)
J. effusus (G, X, unc P, C)
J. tenuis (unc G, C)
Luzula congesta (unc G)

DICOTYLEDONOUS HERBS

COMPOSITES

Cirsium arvense (C)
C. vulgare (C)
Hypochaeris radicata (G, X, C)
Mycalis muralis (G, C)
Taraxacum officinale s.l. (G, C)
Leontodon taraxacoides (G)

DICOTYLEDONOUS HERBS OTHER THAN COMPOSITES

Cerastium fontanum ssp. vulgare (G, X, unc P, C)

Linum catharticum (C)
Lotus pedunculatus (G)
Plantago lanceolata (unc G, uncc)
Polygonum sp. (uncc)
Prunella vulgaris (G, C)
Ranunculus acris (C)
Rumex sp. (undetermined) (unc C)
Sagina procumbens (G, unc P, C)
Trifolium dubium (G)
T. repens (G, C)
Veronica serpyllifolia (G, X, P)

No. of adventive species listed for each area:

Stevens (S) : (adventive spp. were not listed)
 Goulard Downs (G) : 29
 Waingaro (W) : (adventive spp. were not listed)
 Aorere (A) : 2
 Xenicus (X) : 13
 Peel (P) : 9
 Luna (L) : (adventive spp. were not listed)
 Matiri-Allen (M) : (adventive spp. were not listed)
 Cobb (C) : 31

RECORDS NOT ACCEPTED

Coprosma petticeii (Simpson 1969)
Dracophyllum rosmarinifolium (Pettersen and Pettersen, 1968)
D. politum X D. longifolium X D. pubescens (Brockie 1957, as D. dansum X D. filifolium X D. pubescens)
Hebe macrocarpa (Pettersen and Pettersen, 1968)
Pterostylis cf. areolata (Druce and Simpson, 1974)
Chionochloa juncea (Druce and Simpson, 1974)
C. rigida (Brockie 1957, as Danthonia rigida)
Festuca matthewsii (Mason 1949)

Poa cockayneana (Mason 1949)
Baumea rubiginosa (Brockie 1957, as Cladium glomeratum)
Oreobolus "undescribed sp." (Brockie 1957)
Anaphalis sp. (b) (Druce and Simpson, as Gnaphalium sp. (c),
unnamed; aff. G. katiense)
Brachyglottis ballidioides (Brockie 1957, as Senecio ballidioides
var. angustatus)
Calmisia coriacea (Peterson and Peterson, 1968, as C. lanceo-
lata)
C. walkeri (Peterson 1971)
C. armstrongii X C. laticifolia (Brockie 1957)
Aciphylla aurea (Oliver 1956)
Anisotome flexuosa (Peterson and Peterson, 1968, as A. aromat-
ica var. dissecta)
Geranium microphyllum (Druce and Simpson, 1974)
Myosotis pygmaea (Brockie 1957)
Oxiris glandulosa (Mason 1949)
Plantago triantha (Brockie 1957, as P. brownii)

APPENDIX: VOUCHER SPECIMENS FOR UNNAMED TAXA

CHR
Palp
Psa

Phyllocladus sp. (a)

Aristotelia fruticosa var. (a)

Coprosma pseudocuneata ssp. (a) (CHR 222801)

C. sp. (b) (CHR 222746, 252151)

C. sp. (c) (CHR 197088-90, 222778-9)

C. sp. (d) (CHR 273630)

C. sp. (e) (CHR 222794, 273830)

see CHR 1

Cyathodes sp. (a)

Hebe cordayneana var. (a) (CHR 249882)

H. haastii var. (a)

Helichrysum intermedium var. (a)

Leucopogon fasciculatus var. (a) (CHR 222940)

Meliccytus sp. (a)

M. sp. (f)

Olearia ilicifolia var. (a)

O. nummularifolia var. (a) (CHR 249893)

Rubus cissoides var. (a)

< Olearia sp (undet)
< Hebe sp (undet)

Blechnum sp. (a)

B. sp. (b) (CHR 273635)

Corybas sp. (a)

Pterostylis sp. (d) (CHR 190980)

152118?
249915?
249950?
252365?

Agrostis sp. (b) (CHR 249917-8, 249918, 249923)

Chionochoa sp. (a)

Elymus sp. (a)

222764
CHR
197061-4
check?

Festuca sp. (a)

F. sp. (b) (CHR 249981)

Lachnagrostis sp. (c)

Trisetum sp. (a) (CHR 249919, 249930, 252119)

Carex sp. (a) (CHR 249967, 252245-6)

C. sp. (d)

C. sp. (e)

CHR 222966
222966

Carpha sp.(a)
Uncinia fuscovaginata var.(a)

U. sp.(a) (CHR 197065-6, 222773)

U. sp.(b) (CHR 192794)

Luzula sp.(a)

Astelia sp.(b) (CHR 222754)

Celmisia sp.(a) ssp.(a) (CHR 273661)

C. sp.(a) ssp.(b) (CHR 197044, 222771-2, 252171)

C. sp.(b) (CHR 249887-8)

Craspedia sp.(a)

C.

Llanespaq (under)

Llanespaq sedge

isoch = ssp.(a).

197091
222757
chr
up

Pseudognaphalium sp.(a)

Aciphylla polita var.(a) (CHR 273674-5)

Anisotome sp.(a)

A. pilifera x Aciphylla sp.

Cardamine sp.(a)

C. sp.(b)

C. sp.(c) (CHR 197084, 197184)

C. sp.(d) (CHR 197083)

C. sp.(e) (CHR 273677-8)

C. sp.(f) (CHR 273676)

C. sp.(g) (CHR 273679, 273681-2)

Colobanthus sp.(a)

Epilobium sp.(c)

Geranium sp.(a)

Geranium sp.(e) (CHR 222972, 252123)

Geranium sp.(a) (CHR 249891)

G. sp.(b)

Euphr.
sp.(e)
sp. (under)

7 Ger. sp.(g), 249966, 249982, 249869

Hypsela sp. (a)

Myosotis sp. (b)

Nertera sp. (c) (CHR 222-829)

Notothlaspi sp. (b) (CHR

Oreomyrrhis sp. (d)

Oxalis sp. (undetermined)

Ranunculus sp. (g)

*voucher not from western sedimentary areas, but from elsewhere in NW Nelson mountains

CHR
spe

