

Fig. 8 The main Paleozoic rock belts of Northwest Nelson. Inset shows distribution of lower Paleozoic rocks in the South Island. (From Cooper 1984)

### DISTRIBUTION OF EASTERN GRANITES

Areas surveyed:

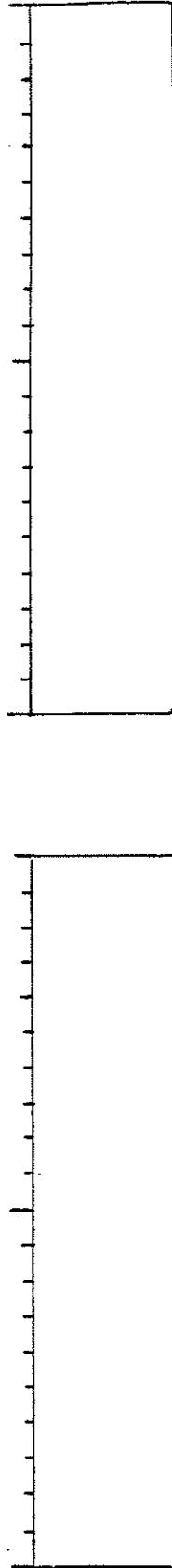
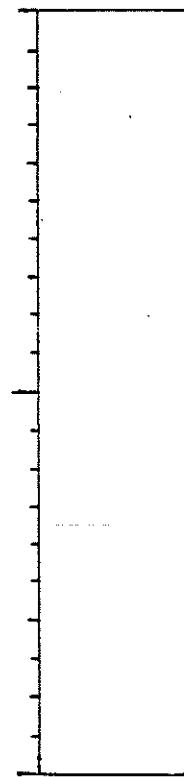
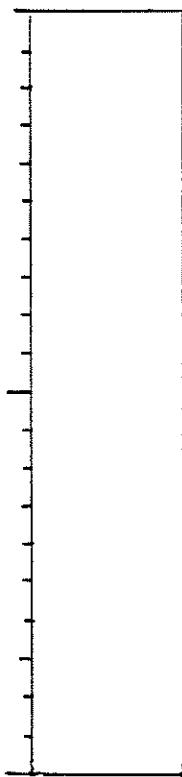
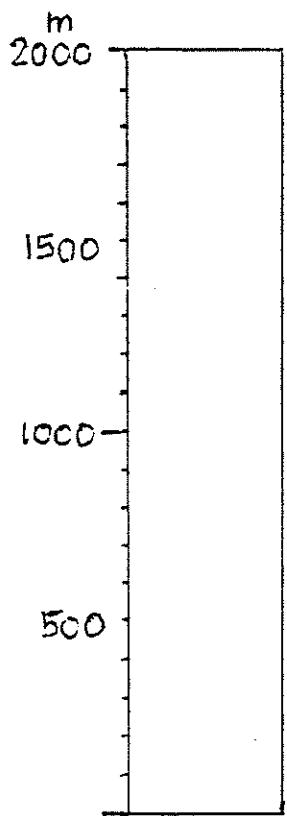
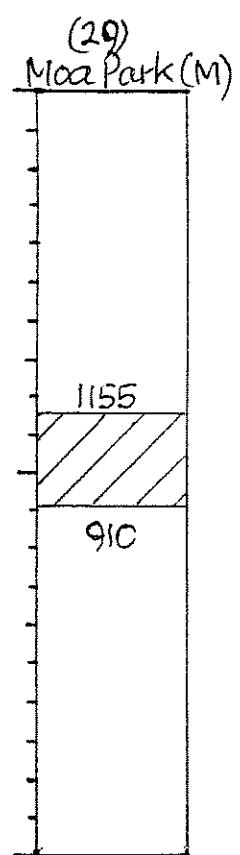
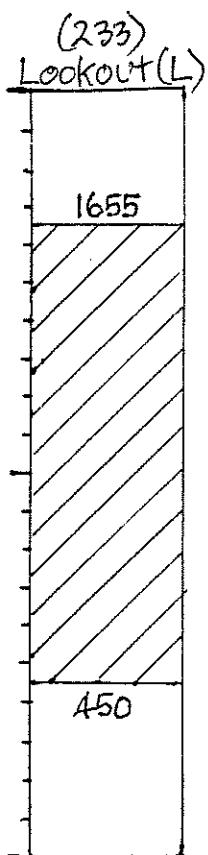
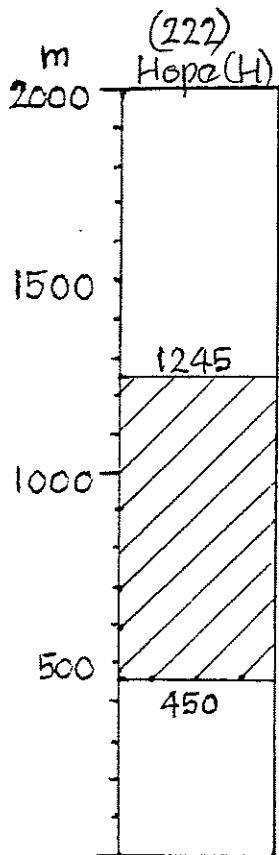
H - Hope area (S Hope Ra.)

L - Lookout area (Lookout Ra.)

M - Moa Park area (Piкиkituna Ra.)

GENERAL LOCATION AND GEOLOGY OF EACH AREA  
(Grid refs on Infomap 262-9 are for the centre of  
each area) (Geology from Cooper 1984)

Area-Location	Geology	Grid ref.
Hope area (H), W of Glenhope	Mesozoic granite	478953
Lookout area (L), NNW of Glenhope	Mesozoic granite	477961
Mc Park area (M), NNW of Motucka	Mesozoic granite	504029



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

Field work in the eastern granite mountains totalled 20 days, mostly between 1978 and 1993. The separate areas were visited at the dates indicated below.

Hope area	1 day in November 1976 2 days in November 1978 2 days in February 1986 3 days in December 1987 4 days in February 1993
Lookout area	1 day in January 1972 1 day in January 1983 1 day in January 1988 2 days in February 1993
Moa Park area	1 day in May 1968 2 days in January 1969

The following participated in the field work: Elizabeth Brown, Warren Burke, Shannel Courtney, Denise Cotter, Helen Druce, Tony Druce, Allan Fife, Katty Ford, Arnold Haine, Roland Haine, Geoff Park, Geoff Rogers, Barbara Simpson, Neill Simpson, Barry Sneddon, Peter Williams, and members of Wellington Botanical Society.

# INDIGENOUS PLANTS (383 SPECIES)

## GYMNOSPERM TREES AND SHRUBS

Dactylocarpus dacrydioides (L) [Podocarpus dacrydioides]

Dacrydium cupressinum (H,L)

Halocarpus bidwillii (H,L,M) [Dacrydium bidwillii]

H. biformis (H,L) [Dacrydium biforme]

H. bidwillii X H. biformis (H)

Lagarostrobos colensoi (unc H, unc L) [Dacrydium colensoi]

Lepidothamnus intermedius (H,L) [Dacrydium intermedium]

L. laxifolius (H,L) [Dacrydium laxifolium]

L. intermedius X L. laxifolius (H,L)

Libocedrus bidwillii (H,L,M)

Phyllocladus alpinus s.s. (L)

P. sp.(a) (H,L,M) (aff. P. alpinus; "lowland" ecotype of Wardle (1969)) [P. alpinus in part]

Podocarpus hallii (H,L,M)

P. nivalis (H,L)

P. hallii X P. nivalis (unc H)

Prumnopitys ferruginea (L) [Podocarpus ferrugineus]

## MONOCOTYLEDONOUS TREES AND SHRUBS

Cordyline indivisa (unc M)

## DICOTYLEDONOUS TREES AND SHRUBS

Archieria traversii s.l. (incl. A. traversii var. australis) (unc H, L, unc M)

Aristotelia fruticosa var. (a) (unc H, unc L)

Brachyglottis bidwillii var. viridis (unc H north and, L, unc M) [Senecio bidwillii var. viridis]

B. greyi var. (a) (incl. B. laxifolia) (unc L south and) [Senecio laxifolius]

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

(unc H, L, unc M) [Senecio bennettii]

Catpodetus serratus (H,L)

Cassinia vauvilliersii (H,L)

- Coprosma cheesemanii s.s. (H,L,M)
- C. ciliata ssp. ciliata (unc L)
- C. colensoi s.s. (H,L,unc M) [C. colensoi and C. banksii]
- C. crassifolia (H,unc except at north end, L)
- C. depressa (L)
- C. foetidissima (H,L,M)
- C. microcarpa (H,L)
- C. lucida s.s. (L)
- C. parpusilla ssp. parpusilla (H,L) [C. pumila in part]
- C. propinqua ssp. propinqua (unc H)
- C. pseudocuneata ssp. (a) (H,L,M) (lvs narrower than in ssp. pseudocuneata)
- C. thamnoides s.l. (incl. C. polymorpha) (H)
- C. robusta (L)
- C. sp. (a) (H,L,M) (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 un pigmented, occasionally purplish red) [C. parviflora in part]
- C. sp. (b) (H,L,M) [C. parviflora var. dumosa sensu Allan 1961]
- C. sp. (d) (H,L) (aff. C. pseudocuneata; low-growing shrubs with small, thick arcuate lvs) [C. pseudocuneata in part]
- Cyathodes dealbata (H,L) [C. pumila]
- C. ampetrifolia (H,L,M)
- C. sp. (a) (H,L,M) (C. juniperina agg.; lvs small, usually <1cm x <1mm)
- Dracophyllum longifolium var. (a) (incl. D. filifolium and D. diverti) (H,L,M)
- D. palustre (H)
- D. pronum (H north end, L)
- D. traversii s.l. (incl. D. pyramidalis) (unc H, unc L)
- D. uniflorum (H,L)
- D. longifolium x D. palustre (unc H)
- D. pronum x D. uniflorum (L)
- Elaeocarpus hookerianus (H,L)

Epacris alpina (H,L,M)

Exocarpus bidwillii (H,L)

Fuchsia excorticata (H)

Gaultheria antipoda (H,unc M)

G. crassa (unc H, L)

G. depressa s.s. (H,L,M)

G. macrostigma (unc H,unc M) [Pernettya macrostigma]

G. sp.(a)(H,L,unc M)(described as G. depressa var. novae-zelandiae by Franklin 1962) [G. depressa in part]

G. antipoda X G. sp.(a)(unc M)

G. crassa X G. macrostigma

G. crassa X G. sp.(a)(unc H,unc L)

G. macrostigma X G. sp.(a)(unc H,unc M)

Griselinia littoralis (H,L,M)

Hebe canterbutiensis (H,L)

H. ciliolata (L)

H. cockayneana var. @ (L south end)

H. gracilima (unc H)

H. macrantha var. brachyphylla (unc L)

H. odora s.s. (M)

H. salicifolia var. salicifolia (unc H)

H. tetragona var. (a) (incl. H. coarctata) (H,L,M)

H. sp. (a) (incl. Leonotis hebe masoniae) (H,L) [Hebe pauciramosa var. masoniae]

Kunzea ericoides agg. (unc H,L) [Leptospermum ericoides]

Leptospermum scoparium (H north of Mt Hope scarp, L,M)

Laukopagon fasciculatus var. @ (H,L,M) (juvenile lvs not much broader than adult lvs) [Cyathodes fasciculata]

L. fraseri s.s.(H,M) [Cyathodes fraseri]

L. suaveolens(H,unc L,M) [Cyathodes colensoi]

Malicytus sp.(f) (unc L) (aff. M. alpinus; shrubs taller than in M. alpinus, up to 2.4m; spiraling 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) [Hy-

- menanthera alpina* in part]  
*Metrosideros umbellata* (H,L,M)  
*Myrsine divaricata* ss. (H,L,M)  
*M. nummularia* (H,L)  
*Neomyrtus pedunculata* (H,L)  
*Nothofagus fusca* (H,L,M)  
*N. menziesii* (L,M)  
*N. solandri* var. *cliffortioides* (H,L,M)  
*N. solandri* var. *solandri* (H)  
*N. truncata* (H,L)  
*N. fusca* × *N. solandri* (H)  
*Olearia arborescens* (unc H, unc M)  
*O. ilicifolia* var. (a) (unc M) (lvs broader than in var. *ilicifolia* :  
laminæ 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* (unc H, unc L, unc M)  
*O. virgata* var. *implicata* s.l. (incl. *O. virgata* var. *divaricata*  
and *O. virgata* var. *laxiflora*) (unc H)  
*O. arborescens* × *O. lacunosa* (unc M)  
*O. ilicifolia* × *O. lacunosa* (M)  
*Pentachondra pumila* (H,L,M)  
*Pimelea oreophila* (unc H, unc L) [*P. pseudolyallii* in part]  
*P. prostrata* (M)  
*Pittosporum anomalum* (H, unc L)  
*P. divaricatum* (H) [*P. divaricatum* and *P. lineare*]  
*P. rigidum* var. (a) (incl. *P. crassicaule*) (H,L,M)  
*Pseudopanax anomalus* (H,M) [*Neopanax anomalum*]  
*P. colensoi* ss. (H,L,unc M) [*Neopanax colensoi*]  
*P. crassifolius* (H,L)  
*P. linearis* (H)  
*P. simplex* s.l. (incl. *P. s.* var. *sinclairii*) (H,L,M) [*Neopanax simplex*]  
*P. sp.(a)* (H,L,T) (described as *P. colensoi* var. *tettnatus* by Wardle  
1968) [*Neopanax colensoi* in part]  
*P. anomalus* × *P. simplex* (unc H)

Pseudowintera colorata (H,L,M)

Quintinia serrata s.l. (incl. Q. acutifolia and Q. elliptica) (L,M)

Wernmannia racemosa var. racemosa (H,L,unc M)

#### DICOTYLEDONOUS LIANES AND RELATED TRAILING PLANTS

Muehlenbeckia axillaris (unc H)

Rubus cissoides var. (a) (H,L,unc M) ("form c" of Allan 1961; if its broader than iii var. cissoides)

#### PSILOPSIDS AND LYCOPODS

Tmesipteris tannensis (unc L)

Lycopodium australeianum (H,L,unc M)

L. fastigiatum (H,L,M)

L. scariosum (H,L,M)

L. variuum (H,L,unc M)

L. volubile (H,L)

#### FERNS

Asplenium flaccidum. (H,L,M)

Blechnum chambersii (H)

B. colensoi (H)

B. discolor (H,L,unc M)

B. fluviatile agg. (H,M)

B. minus (unc H)

B. penna-martini (H,L,M)

B. procetum (H,L,M)

B. vulcanicum (unc H)

B. sp.(a) (H,L) (lowland sp.; lower pinnae reduced in length)

[B. sp. 1]

B. sp.(b) (H) (mountain sp.; lower pinnae not reduced in length; "The Dunedin-Cass Variety" of Crookes (1963)) [B. sp. 3]

Ctenopteris heterophylla (L)

Cyathea colensoi (H,L,M)

Gleichenia dicarpa (H,L)

- Grammitis billardierei* (H,L)  
*G. givenii* (unc H, unc L)  
*G. magellanica* ssp. *nothofageti* (unc H, L, unc M)  
*G. poeppigiana* (unc H, L, unc M)  
*Histiopteris incisa* (unc H, L, M)  
*Hymenophyllum armstrongii* (unc H)  
*H. bivalve* (H, L)  
*H. domissum* (H)  
*H. flabellatum* (H, L)  
*H. malinigii* (H, L, M)  
*H. minimum* (unc H)  
*H. multifidum* (H, L, M)  
*H. poltatum* (unc H, unc L)  
*H. ratum* (H, L, unc M)  
*H. tufescens* (L, unc M)  
*H. villosum* (H, L, M)  
*Hypolepis millefolium* (unc H, M)  
*Leptopteris hymenophylloides* (unc M)  
*L. superba* (L, unc M)  
*Pacaria scabatula* (L)  
*Polystichum vestitum* (unc H, L, unc M)  
*Pteridium esculentum* (L)  
*Schizaea australis* (unc H, unc L)  
*Sticherus cunninghamii* (unc H)

## MONOCOTYLEDONOUS HERBS

### ORCHIDS

- Adenochilus gracilis* (H, L, unc M)  
*Aporostylis bifolia* (H, L, unc M)  
*Caladenia catnea* agg. (H, L)  
*C. lyallii* (unc H, L, unc M)  
*Chiloglottis cornuta* (H, L, M)  
*Corybas cryptanthus* (unc H)  
*C. macranthus* (unc M)

C. rivularis s.s. (unc H) [C. orbiculatus]  
C. trilobus s.s. (H, L)  
C. sp. (undetermined) (unc L)  
Gastrodia cunninghamii (unc H, L, unc M)  
Hyperanthus antarcticus (unc H)  
Prasophyllum colensoi (H, L, M)  
Pterostylis hissoniana (unc H, unc L)  
P. venosa (unc H, L, unc M)  
Thelymitra cyanea (H, unc M)  
T. decora (unc H)  
T. formosa (unc H, unc M)  
T. hatchii (H, L, M)  
T. longifolia s.s. (H, unc M)  
T. pulchella (M)

## GRASSES

Agrostis dyeri s.s. (unc H, unc L)  
A. muscosa (M)  
A. personata (H, L, M) [A. parviflora]  
A. sp. (b) (H, L, unc M) (aff. A. dyeri but panicle not contracted)  
[A. dyeri in part]  
Chionochloa australis (H, L) [Danthonia australis]  
C. cheesemanii (L vicinity of Conical Hill, unc M) [Danthonia taoulii  
var. cheesemanii]  
C. conspicua ssp. conspicua (unc H, L) [Danthonia cunning-  
hania]  
C. pallens ssp. pallens (L) [Danthonia taoulii in part]  
C. rubra ssp. occulta (H, L, M) [Danthonia taoulii in part]  
C. australis X C. rubra (unc H, unc M)  
C. cheesemanii X C. rubra (unc M)  
C. pallens X C. rubra (unc L)  
C. pallens X C. sp. (a) (C. flavesca auct. South Island, non C.  
flavesca Zlotov) (unc L)  
C. rubra X C. sp. (a) (unc H)  
C. rubra X C. sp. (undetermined) (unc M)

Deschampsia tenella (unc H, L, unc M)

Deyrollea aucklandica (H, L, unc M)

D. avenoides s.l. (incl. D. avenoides var. brachyantha) (H, M)

Festuca sp (b) (L) (aff. F. matthewsii; plants tufted, but not tussock-forming, glaucous)

Hiarochloë novae-zelandiae (H, L, M)

H. recurvata (unc H)

H. redolens (unc H)

Lachnagrostis lyallii s.l. (incl. L. filiformis var. semiglabra) (H) [Dey-  
auxia forsteri var. semiglabra]

Microlaena avenacea (H, L, M)

M. colensoi s.s. (unc H north end, L) [Ehrhartia colensoi]

Poa breviglumis (unc H, unc M) [P. imbecilla var. breviglumis]

P. colensoi (H, L, M)

P. Kirkii (unc L)

P. maia (unc L, unc M)

Rytidosperma australe (unc M) [Thodia australis]

R. gracile (H, L, M) [Danthonia semiannularis in part]

R. nigricans (H, L, M) [Danthonia semiannularis var. nigricans]

R. setifolium (unc H, L) [Danthonia semiannularis var. setifolia]

Trisetum youngii (unc L)

## SEDGES

Baumea tenax (L)

Carax acicularis s.l. (incl. C. allanii) (H, L)

C. breviculmis (unc H)

C. cockayneana (unc H)

C. dissita s.s. (L, M)

C. echinata (H, M)

C. gaudichaudiana (H, M)

C. kirkei s.l. (incl. C. kirkei var. elatior) (unc M)

C. lessoniana (?) (L)

C. libera (H, L, unc M)

C. sinclairii (H, M)

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

C. sp.(e)(unc H, unc L)(aff. C. dissita but plants much smaller) [C. dissita in part]  
Catpha alpina ss. (H,L,M)

Gahnia procera (H,L,M)

Isolepis aucklandica (H,L) [Scirpus aucklandicus]

I. caligenis (unc H, unc L, unc M) [Scirpus caligenis]

I. habra (H,L,M) [Scirpus habrus]

I. subtilissima (H,M) [Scirpus subtilissimus]

Oreobolus impar (unc L)

O. pectinatus (H,L,M)

O. strictus (H,L,M)

Schoenus pauciflorus s.s. (unc H, L)

Uncinia astonii (unc L, M)

U. divaricata (H,L)

U. egmontiana (M)

U. ferruginea (L)

U. filiformis (unc H, L, M)

U. fuscovaginata var. (a) (H,L,M) (plants glaucous)

U. involuta (H,L)

U. nervosa s.s. (H,L,M)

U. tupestris s.l. (incl. U. angustifolia) (H,L,M)

U. silvestris s.l. (incl. U. affinis) (unc M)

U. uncinata (H,L,M)

U. zotovii (H,M)

U. sp.(a)(H,L,unc M)(aff. U. nervosa but plants more slender, see Edggar 1970, p.231) [U. nervosa in part]

## RUSHES AND ALLIED PLANTS

Centrolepis ciliata (H,L,unc M)

Empodium minus (H,L) [Calothecus minor]

Gaimardia setacea (H,L)

Juncus antarcticus (H, L, M)

J. gregiflorus (unc M)

J. novae-zelandiae (H, L, M)

J. pusillus (H, unc M)

Luzula colensoi (unc H, L)

L. migrata (unc M) [L. banksiana var. migrata]

L. picta s.s. (H)

L. subclavata (H) [L. picta var. pallida]

L. sp.(a)(H) [L. picta var. limosa]

L. sp. (e)(L) (plants rhizomatous; infl head smaller than in L. tufa) [L. tufa var. tufa in part]

L. sp.(undetermined) (M) (L. picta agg.)

#### MONOCOTYLEDONOUS HERBS OTHER THAN GRASSES, SEDGES, RUSHES, AND ALLIED PLANTS

Astelia graminea (L)

A. lineatis s.l. (incl. A. lineatis var. novae-zelandiae) (H, L)

A. nervosa s.s. (H, L)

A. nivicola s.s. (unc L)

A. sp.(b)(L, M) (aff. A. nervosa but lvs broader and not conspicuously white adaxially) [A. nervosa in part]

Bulbinella hookeri (L only near contact with marble of Marino Mts)

Dianella nigra (L)

Harpotitton novae-zelandiae (unc M)

Libertia pulchella (unc H, L, M)

Luzuriaga pativiflora (unc H, M)

Phormium cookianum (H, L, M)

#### DICOTYLEDONOUS HERBS

##### COMPOSITES

Abrotanella caespitosa (H, L, M)

A. lineatis s.s. (L only near contact with marble of Marino Mts)

Anaphalis sp.(a) (H,L,M) [Helichrysum bellidioides s.s.]

Brachyglottis sp.(a) (H,L) (included in B. bellidioides, as var. crassa, by Nordanstam 1978) [Senecio bellidioides in part]

Celmisia alpina s.s. (H,L)

C. dallii (unc H near Mt Hope)

C. hieraciifolia ssp. hieraciifolia (H,L)

C. incana s.l. (incl. C. discolor) (H,L,M)

C. laricifolia (L)

C. lateralis s.l. (incl. C. lateralis var. villosa) (unc H except at north end, L)

C. montoi ssp. (a) (H) [C. cotiacea var. semicordata]

C. montoi ssp. (b) (L) (described as C. cotiacea var. lancifolia by Cheeseman 1925)

C. petriei (unc H, L only near contact with marble of Matino Mts)

C. sessiliflora (L south end)

C. similis (H,L)

C. sinclairii s.l. (incl. C. allanii and C. dutiezi) (L south end)

C. spectabilis ssp. spectabilis (H,L,unc M)

C. travescii (unc M)

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

C. similis X C. spectabilis (unc H, unc L)

Craspedia sp.(cf.c) (L) (summer-green plants, in seepages; 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 white with cottony hairs; fls white)

C. sp. (gg) (H) (summer-green plants in carpet-grass and bogs; lvs green, ± recurved; lamina ± folded, narrowing abruptly to long slender petiole; both surfaces clad in long multicellular non-glandular hairs, with or without cottony tips, overtopping short glandular hairs; margins ± faintly white with cottony hairs; fls white)

Dolichoglottis lyallii (L)

Gnaphalium audax (unc M) [G. collinum in part]

G. laterale (unc H) [G. paludosum in part]

G. macbrayi ss. (H, L) [G. traversii in part]

G. paludosum ss (H, unc L south end, M)

G. tuahinicum (unc M) [G. collinum in part]

Helichrysum filicaule (unc H, unc M)

Hagenia fata cuneata (H, M)

L. pumila (L)

L. strangulata (H, L, unc M) [L. petiolata]

Leptinella pyrathrifolia agg. (L) [Cotula pyrathrifolia]

L. sp. (b) (unc H, L, M) (included in L. squalida, as ssp. mediana, by Lloyd and Webb, 1987)

Microschis scapigera (L)

Raoulia eximia s.l. (incl. R. tubiflora) (L)

R. glabra (H, L, M)

R. grandiflora var. grandiflora (H, L, M)

R. subsericea (unc H)

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

S. waitavensis (unc H, L) [Erechtites waitavensis]

Taraxacum magellanicum (unc L)

#### DICOTYLEDONOUS HERBS OTHER THAN COMPOSITES

Acaena anserinifolia (unc H, unc M) [A. anserinifolia, A. pusilla, A. pusilla var. supraserricascens, and A. viridior]

A. inermis (unc H) [A. inermis and A. microphylla var. robusta]

A. profunda [A. incisa (unc H, L) [A. anserinifolia var. sericainitens and A. anserinifolia var. pavidens]]

Aciphylla anomala (unc)

A. colensoi var. colensoi (M)

A. polita var. (2) (L) (If segments coarser than in var. polita and stipules mostly simple; see Dawson and Le Comte, 1978)

Anisotome aromatica (H, L, M) [A. aromatica var. aromatica, flabellifolia, incisa, major, obtusa & pininati secta]

A. flexuosa var. flexuosa (L) [A. aromatica var. dissecta]

A. sp. (a) (L) (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 5cm, not hidden amongst the lvs)

A. sp. (b) (L) (described as A. imbricata var. prostrata by Dawson 1961)

Cardamine sp. (i) (unc L) ("Scree Race" of Pritchard 1957)

Chionoha be pulvinaris (L) [Pygmaea pulvinaris]

Colobanthus affinis (M)

Copetatus s.l. (incl. Copetatus var. alpinus (unc H, L))

Coprosma talbrockiae (unc H)

Donatia novae-zelandiae (H, L)

Drosera arcturi (H, L, M)

D. spathulata (H, L, M)

D. stanopetala (unc H, L)

Epilobium alsinoides s.s. (unc H, unc M) [E. alsinoides & E. thymifolium]

E. brunnescens s.s. (unc H, M)

E. chlorifolium (L)

E. cochaynaeum (H, unc L, M)

E. linnaceoides (unc M)

E. macropus (unc L)

E. heteroides (M) [E. pedunculare var. vittide]

E. parviflora (H, L, M)

E. pubens (unc M) [E. pubens and E. pubens var. strictum]

E. sp. (a) (unc H, L) (included in E. brunnescens, as ssp. minutiflorum, by Raven and Engelhorn, 1971) [E. pedunculare var. minutiflorum]

Euphrasia montoi (L)

E. townsonii s.s. (H,L)

E.sp(q) (L south end) (plants perennial, up to 2cm tall, in seepages, with slender spreading and branching stems, bearing retrorse hairs above ground; lvs fleshy, 3-lobed, very variable in shape, with scattered glandular hairs on margins; calyx with dark markings on margins and keel of lobes; calyx tube, but not the lobes, densely covered in glandular hairs over dense retrorse non-glandular hairs; corolla c. 1.8 cm diam., white with yellow throat) [E. petriei in part]

Forstera mackayi (H,L)

F. sodifolia s.s. (L)

F. tanella (H,L,unc M)

Galium parvissimum s.s. (M)

Gentiana bellidifolia (unc L south end, M?)

G. montana s.l. (incl. G. montana var. stolonifera, G. patula, and G. bellidifolia var. pulchella) (H,L,M)

G. spenceti (H,L)

G. sp.(c) (L) (aff. G. divisa; plants biennial; lvs linear-spathulate; inflorescence a ball-like mass almost hiding lvs)

G. sp. (d) (L north end) (described as G. bellidifolia var. australis by Cheeseman 1925) [G. bellidifolia in part]

Geranium sp.(c) (H,L,M) (aff. G. microphyllum) [G. microphyllum in part]

Gaura leucospermum (unc M)

G. sp. (a) (unc south end) (aff. G. parviflorum; stock short, terminal lft about as long as broad; fls up to 13mm diam.) [G. parviflorum in part]

Gonocarpus aggregatus (H,M) [Haloragis depressa]

G. micranthus ssp. micranthus (H,M) [Haloragis micrantha]

G. montanus (unc H) [Haloragis procumbens]

Gunnera monoica (M) [G. albocarpa, G. monoica, and G. strigosa]

Hydrocotyle microphylla (unc H, unc M)

H. moschata (unc H)

H. sp. (a) var. (a) (M) [H. novae-zelandiae var. montana]

Hypericum japonicum agg. (unc H)

Kelleria dieffenbachii (unc H, unc L) [Drapetes dieffenbachii]

K. laxa (H, M) [Drapetes laxus]

K. tessellata (H, L) [Drapetes villosus in part]

Liparophyllum gunnii (H)

Montia fontana s.s. (H, L, M)

Myosotis venosa (unc M)

Neopaxia sp. (b) var. (a) (unc H) (described as Claytonia calycina by Colenso 1896) [Claytonia australasica in part]

Nertera balfouriana (H, L, M)

N. ciliata (H, L, M)

N. depressa s.l. (incl. N. cunninghamii) (H, L)

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

Notothlaspi sp. (b) (L) N. australe avct., non Thlaspi australe Hook.f.) [N. australe]

Oreomytthis colensoi s.s. (incl. O. colensoi var. hispida and O. c. var. multifida) (H, L, M)

Oreoporanthera alpina (L south end) [Poranthera alpina]

Orcostylidium subulatum (H, M)

Ovisia caespitosa ssp. caespitosa (unc H, L)

O. lactea ssp. lactea (H, L) [O. macrophylla var. lactea]

O. sp. (a) (H, L) (plants creeping, prostrate, forming extensive patches on damp banks beside streams in beech forest; occasionally in banks of sphagnum moss outside forest; lvs usually widely separated, but closely spaced in plants growing in the open; petiole slender; lamina up to 1x1cm; infls slender, bearing 2-3 fls, up to 10cm tall in fr; fls c. 2cm diam; corolla white with a pale yellow throat)

- Oxalis magellanica (H,L,M) [O. lactea]  
Phyllachne clavigera s.l. (incl. P. colensoi) (L)  
Plantago novae-zelandiae (M)  
P. uniflora (H,M)  
Pratia angulata agg. (H,L,M)  
Psychrophila novae-zelandiae (unc H,L) [Caltha novae-zelandiae]  
Ranunculus foliosus (M) [R. foliosus, R. insertus, and R. porrectus]  
R. gracilipes (L) [R. gracilipes and R. sinclairii]  
R. membranifolius (unc N) [R. hirtus in part]  
R. reflexus (L) [R. hirtus in part]  
R. verticillatus (L) [R. clivalis]  
R. foliosus X R. membranifolius (?) (unc M)  
Schizolema colensoi (unc H)  
S. haastii s.s. (L)  
S. nitens (unc H,M)  
Stackhousia minima (H)  
Stellaria decipiens s.l. (incl. S. parviflora) (H,M)  
Utricularia novae-zelandiae (H) [U. monanthos + U. novae-zelandiae]  
Viola cunninghamii (H,L,M)  
V. filicaulis (H,M)  
Wahlenbergia albomarginata var. albomarginata s.l. (incl. W. brockiei and W. pygmaea var. laxa) (H,L)

No. of indigenous species listed for each area:

Hope (H) : 277

Lookout (L) : 272

Moa Park (M) : 190

## ADVENTIVE PLANTS (25 SPECIES)

### GYMNOSPERM TREES AND SHRUBS

Abies sp (juveniles only) (unc H)

Pinus contorta (juveniles only) (unc H)

Pseudotsuga menziesii (juveniles only) (unc H)

### DICOTYLEDONOUS TREES AND SHRUBS

Cytisus scoparius (M)

### MONOCOTYLEDONOUS HERBS

#### GRASSES

Agrostis capillaris (H/L, M)

Anthoxanthum odoratum (unc H/L, unc M)

Festuca nigrescens (unc H/L, unc M)

Holcus lanatus (unc H/L, M)

Poa trivialis (unc H)

#### SEDGES

Carex ovalis (M)

#### RUSHES

Juncus articulatus (unc H/L)

J. conglomeratus (H/L)

J. effusus (H/L)

### DICOTYLEDONOUS HERBS

#### COMPOSITES

Cirsium vulgare (unc H/L, unc M)

Hieracium caespitosum (unc H/L)

H. pilosella (unc H/L)

Hypochaeris radicata (unc H/L, M)

Mycelis muralis (unc H/L, M)

Taraxacum officinale s.l. (unc H/L)

#### DICOTYLEDONOUS HERBS OTHER THAN COMPOSITES

Carastium fontanum ssp. vulgare (unc H/L, unc M)

Epilobium ciliatum (unc M)

E. obscurum (unc H)

Rumex acetosella (unc H/L, M)

Sagina procumbens (unc H/L, unc M)

Thifolium repens (unc H/L, unc M)

No. of adventive species listed for each area:

Hope (H) : c. 22

Lookout (L) : c. 17

Moa Park (M) : 15

Note: H/L indicates species not separately listed for  
Hope and Lookout areas (probably present in both)

#### RECORDS NOT ACCEPTED

Coprosma cuneata (Eslter 1962)

C. parviflora (Eslter 1962)

Dracophyllum latifolium (Eslter 1962)

Chiocochloa flavescens (Eslter 1962, as Danthonia flavescens)

C. rigida (Eslter 1962, as Danthonia raoulii)

Poa acicularifolia (Bell 1973)

Luncinia rubra (Eslter 1962)

Luzula tufa (Bell 1973)

Astelia patriciae (?) (Eslter 1962)

Brachyglottis adamsonii (Eslter 1962, as Senecio adamsonii)

Captinella minor (Eslter 1962, as Cotula minor)

Aciphylla monroi (Bell 1973)

Anisotome imbricata (Bell 1973)

Dioscorea pygmaea (Eslar 1962)

Kallstroemia villosa (Eslar 1962, as Drapetes villosa)

Nectara didymandrafolia (Eslar 1962)



part autograph page

+ recent spcs.

(EG)

See Pitt St & Bell  
Mc Park

X

## VOUCHER SPECIMENS FOR UNNAMED TAXA

Phyllocladus sp.(a) (CHR)

Aristotelia fruticosa var.(a)

Coprosma pseudocuneata ssp.(a) (CHR 180966-7)

C. sp.(b) (CHR 180864, 180978)

C. sp.(d) (CHR 249634)

Cyathodes sp.(a) (CHR)

Hebe cochayneana var.(a)

Leucopogon fasciculatus var.(a)

Malicytus sp.(f)

Olearia ilicifolia var.(a)

Rubus cissoides var.(a) (CHR 189131)

Blechnum sp.(a)

B. sp.(b)

c. sp. (undet.)

Agrostis sp.(b) (CHR

check 189136 from H.

Chionochloa sp.(a)

Festuca sp.(b)

22-148-50  
partn.  
Carex sp.(d)

C. sp.(e)

Uncinia fuscovaginata var.(a) (CHR 180985, 189137, 249939)

L. sp.(a) (CHR 189174-5,

Luzula sp.(e)

L. sp. (undetermined) (L. picta agg) (CHR 190945)

Astelia sp.(b)



Celmisia sp.(a) ssp.(a)

Craspedia sp.(cf.x)(CHR)

C. sp.(gg)(CHR)

Aciphylla polita var.(a)

Anisotome sp.(a)

Cardamine sp.(i)

Euphrasia sp.(q)(CHR)

Gentiana sp.(c) (CHR 249837-8,

Geranium sp.(c)

Geum sp. (a)

Nertera sp.(a) (CHR 189132)

Notothlaspi sp. (b)

Oxalis sp.(a) (CHR)

Ranunculus foliosus × R. membranifolius(?) (CHR 189173)

\*voucher not from eastern granite areas, but from elsewhere in NW Nelson mountains

