

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

DISTRIBUTION OF EASTERN SEDIMENTARY ROCKS

Areas surveyed (apart from areas of limestone and marble):

A - Arthur area (central Arthur Ra.)

G - Gomorrah area (Mt Gomorrah, S Arthur Ra.)

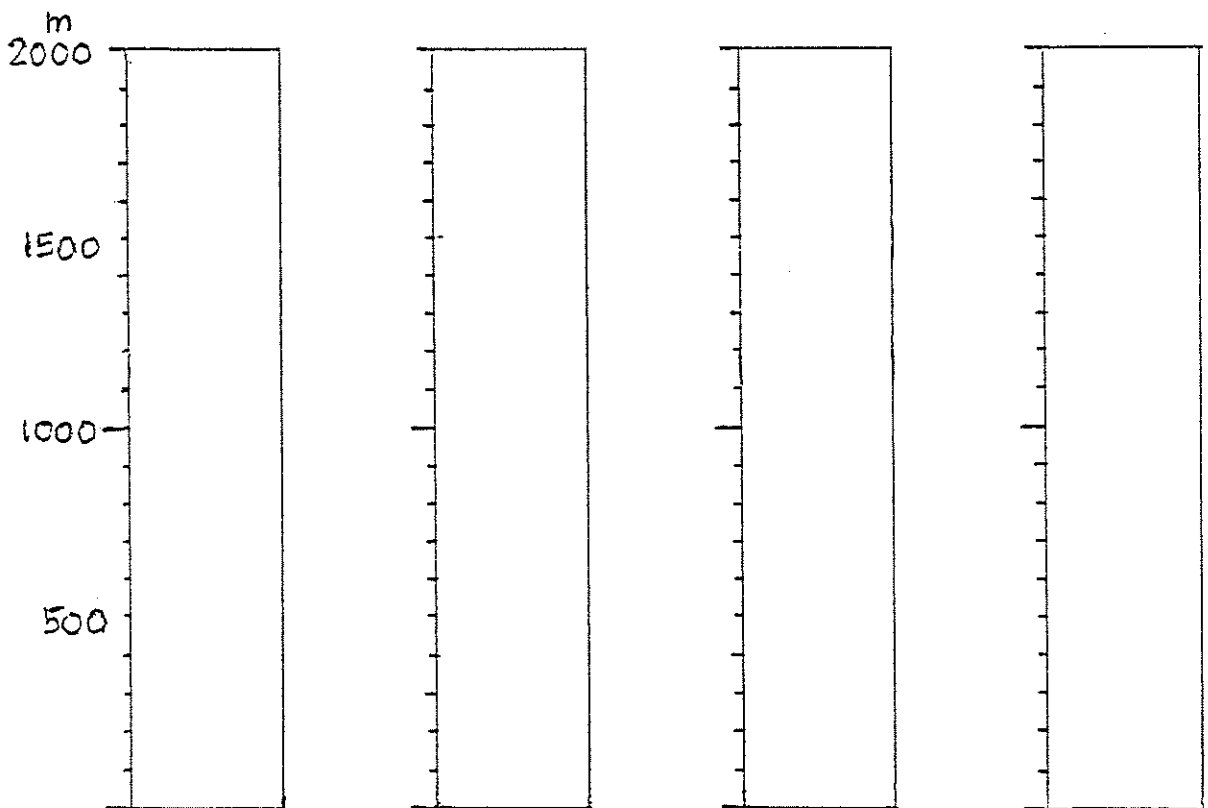
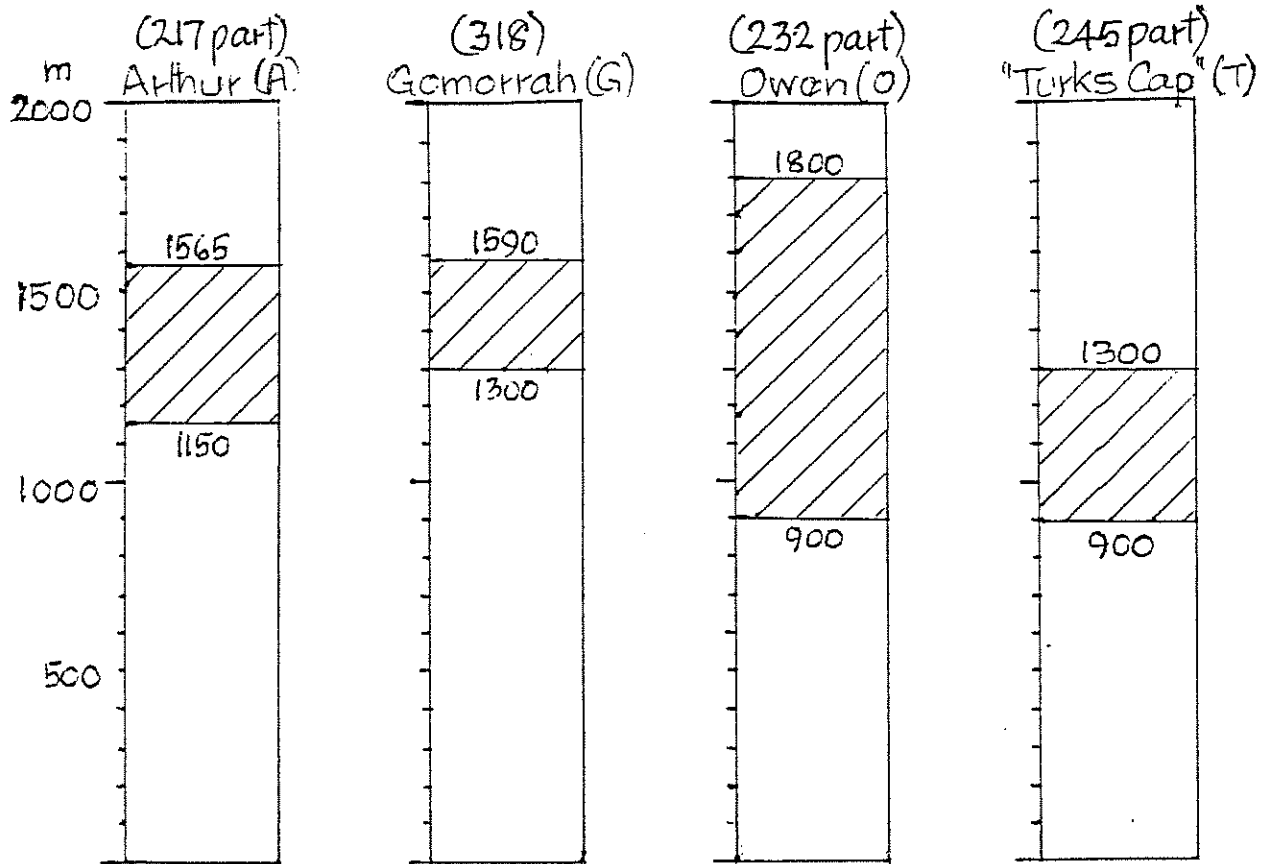
O - Owen area (Mt Owen)

T - "Turks Cap" area ("Turks Cap" Ra.)

GENERAL LOCATION AND GEOLOGY OF EACH AREA

(Grid refs on Infomap 262-9 are for the centre of each area) (Geology from Grindley 1980, Coleman 1981)

Area Location	Geology	Grid ref.
Arthur area (A), central Arthur Ra.	Paleozoic Sedimentary Rocks siliceous argillite, quartz-mica sandstone, calcareous argillite grading to graphitic schist	482997
Gomottah area (G), S Arthur Ra.	} quartzite, siliceous argillite and sandstone	475981
Owen area (O), Mt Owen		472964
"Turks Cap" area (T), "Turks Cap" Ra.		467965



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 sedimentary mountains totalled 30 days, mostly between 1972 and 1991. The separate areas were visited at the dates indicated below.

Arthur area (A)	3 days in April 1963
	2 days in January 1975
	4 days in January 1982
	3 days in February 1991
Garibaldi area (G)	1 day in February 1992
	1 day in February 1990
Owen area (O)	5 days in January 1972
	5 days in January 1983
"Turks Cap" area (T)	3 days in January 1983
	3 days in February 1989

The following participated in the field work: Edward Abraham, Ted Abraham, John Bartlett, Heather Beaton, Bev Bruce, Len Bruce, Shannel Courtney, Helen Druce, Tony Druce, John Fuidlay, Elsie Gibbons, Arnold Haime, Jan Haime, Roland Haime, Kevin Luff, Geoff Rogers, Barry Snedden, Barry Spring-Rice, Peter Williams, and members of Wellington Botanical Society.

INDIGENOUS PLANTS (343 SPECIES)

GYMNOSPERM TREES AND SHRUBS

Halocarpus bidwillii (unc O) [Dacrydium bidwillii]

H. biformis (unc O) [Dacrydium biforme]

Lepidothamnus laxifolius (A, G, O, T) [Dacrydium laxifolium]

Libocedrus bidwillii (unc A)

Phyllocladus alpinus s.s. / P. sp. @ (A, O, T)

P. alpinus s.s. (A, O)

P. sp. @ (distribution uncertain) (aff. P. alpinus; "lowland" ecotype of Wardle 1969) [P. alpinus in part]

Podocarpus hallii (O)

P. nivalis (A, G, O, T)

P. hallii x P. nivalis (unc A)

DICOT TREES AND SHRUBS

Archeria traversii s.l. (incl. A. traversii var. australis) (unc A, O)

Aristotelia fruticosa var. @ (A)

Brachyglottis bidwillii var. viridis (A, G, unc O) [Senecio bidwillii var. viridis]

B. rotundifolia var. @ (incl. B. buechananii and B. cockaynei) (unc A, unc O) [Senecio baunettii]

B. bidwillii x B. rotundifolia (unc A)

Cassinia vauvilliersii (A, G, O)

Coprosma cheesemani s.s. (A, G, O, T)

C. ciliata ssp. ciliata (A, G, T)

C. colensoi s.s. (O) [C. banksii and C. colensoi]

C. crenulata (A, G, unc O)

C. depressa (A, G, O)

C. foetidissima (A, unc G, O)

C. microcarpa (O)

C. perpusilla ssp. perpusilla (A, G, O, T) [C. pumila in part]

C. pseudocuneata ssp. (a) (A, G, O) (lvs narrower than in ssp. pseudocuneata)

C. Hamnoides s.l. (incl. C. polymorpha) (O)

C. serrulata (A)

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

C. sp. (b) (A, O, T) (C. parviflora var. dumosa sensu Allan 1961)

C. sp. (d) (A, G, T) (aff. C. pseudocuneata; low-growing shrubs with small thick arcuate lvs) [C. pseudocuneata in part]

C. sp. (e) (A, unc O) (aff. C. colensoi; low-growing shrubs with trailing branches) [C. colensoi in part]

C. cheesemantii X C. ciliata (unc A, unc T)

Cotiaria plumosa (unc A)

Cyathodes dealbata (A, G, O, T) [C. pumila]

C. campetrifolia (A, O)

Dracophyllum longifolium var. (a) (incl. D. filifolium and D. oliveri) (A, O, T)

D. pubescens var. pubescens (A, G)

D. traversii s.l. (incl. D. pyramidale) (A, O)

D. uniflorum (A, G, O, T)

Epactis alpina (O) (Townson 1907)

Exocarpos bidwillii (unc G)

Gaultheria antipoda (O)

G. crassa (G, T)

G. depressa s.s. (A, G, O)

G. nubicola (G)

G. sp. (a) (A, G, O, T) (described as G. depressa var. novae-zeelandiae by Franklin 1962) [G. depressa in part]

G. crassa X G. sp(a) (unc A, unct)

Etiselinia littoralis (A, O, unct)

Hebe canterburiensis (A, G, O, T)

H. ciliolata (A, G, O, T)

H. cochayneana var. (a) (A)

H. maerantha var. brachyphylla (A, G)

H. odora ss. (O, T)

H. tetragona var. (a) (incl. H. contractata) (A, G, O, T)

H. topiaria (A, O, T)

H. varnicosa (A, G)

H. sp(a) (incl. Leonohebe masoniae) (A) [H. pauciramosa var. masoniae]

Kunzea ericoides agg. (O) [Leptospermum ericoides]

Leptospermum scoparium (O)

Leucopogon fasciculatus var. (a) (O) (juvenile lvs not much broader than adult lvs) [Cyathodes fasciculata]

L. fraseri s.s. (A, G, O) [Cyathodes fraseri]

L. suaveolens (A, G, O, T) [Cyathodes colensoi]

Melicytus sp. (f) (A, G, O) (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]

Myrsine divaricata ss. (A, G, O)

M. nummularia (A, G, O, T)

Nothofagus fusca (O)

N. menziesii (A, G, O)

N. solandri var. cliffortioides (A, G, O, T)

N. fusca X N. solandri (unc O, unct)

Olearia colensoi var. colensoi (unc A)

O. lacunosa var. lacunosa (A, G, O, T)

O. nummulariifolia var. (a) (A, O) (lvs oval, rather than suborbicular as in var. nummulariifolia)

O. virgata var. implicita s.l. (incl. O. virgata var. divaricata and O. virgata var. laxiflora) (unc T)

Pentachendra pumila (A, G, O, T)

Peraxilla tetrapetala (unc G) [Elytranthe tetrapetala]

Pimelea longifolia (unc O)

P. oreophila (A, G, O, T) [P. pseudolyallii in part]

Pittosporum anomalum (unc T)

Pseudopanax anomalus (O) [Neopanax anomalum]

P. crassifolius (O)

P. simplex s.l. (incl. P. simplex var. sundarii) (unc A, unc O) [Neopanax simplex]

P. sp. (a) (unc A, unc G) (described as P. colensei var. ternatus by Wardle 1968) [Neopanax colensei in part]

Pseudowintera colorata (O)

Quintinia serrata s.l. (incl. Q. acutifolia and Q. elliptica) (O)

DICOTYLEDONOUS LIANES AND RELATED TRAILING PLANTS

Muehlenbeckia axillaris (G)

Robus cissoides var. (a) (O) ("form c" of Allan 1961; flts broader than in var. cissoides)

LYCOPODS

Lycopodium australianum (O)

L. fastigiatum (A, G, O, T)

L. scariosum (A, O, T)

L. varium (unc A, unc O)

FERNS

Asplenium flaccidum (A, O)

Blechnum discolor (unc O)

B. fluviatile agg. (A, O)

B. penna-marina (A, G, O)

B. procerum (A, O)

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

Cyathea colensoi (A)

Grammitis billardierei (A, O)

G. givonii (A)

G. magellanica ssp. nothofageti (A, O)

G. poeppigiana (A, G)

Histiopteris uncinata (O, T)

Hymenophyllum malinonii (unc A)

H. ratum (O)

H. villosum (A, G, O)

Hypolepis millefolium (A, G, O)

Polystichum cystostegia (G)

P. vestitum (A)

Pteridium esculantum (O)

MONOCOTYLEDONOUS HERBS

ORCHIDS

Adenochilus gracilis (A, unc G, O)

Aporostylis bifolia (A, O, T)

Caladenia lyallii (O, unc T)

Calochilus robertsonii (unc O)

Chiloglottis cornuta (A, G, O)

Corybas mactanthus (A)

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

Prasophyllum colensoi (A, G, O)

Pterostylis humilis (A)

P. oliveri (A)

Thalymitra formosa (unc O)

T. longifolia s.s. (O)

GRASSES

Agrostis dyeri s.s. (A, G, O)

A. muelleriana (G) [A. subulata in part]

A. personata (G, O, T) [A. parviflora]

A. sp. (b) (A, G, T) (aff. A. dyeri but panicle not contracted)

Chionochoa australis (A, G, O, T) [Danthonia australis]

C. conspicua ssp. conspicua (A, G, O) [Danthonia cunninghamii]

C. pallens ssp. pallens (A, G, O, T) [Danthonia raoulii in part]

C. rubra ssp. occulta (A, O, T) [Danthonia raoulii in part]

C. sp. (c) (A, T) (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. pallens x C. rubra (O)

Deschampsia caespitosa (unc A)

D. tenella (A)

Doxauxia aucklandica (A, G, O) [D. setifolia]

Dichelachne crinita (O)

Elymus alysi (O) [Agropyron aristatum]

E. sp. (a) (A, O) (aff. E. tectisetus; plants usually glaucous; If blade usually flat, up to 5mm wide; awns 4-6 cm long)
var. (a) (culms erect or ascending) [Agropyron scabrum in part]

E. sp. (e) (unc T) (aff. E. laevis)

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

Hierochloa novae-zelandiae (A, G, O) [H. fraseri in part]

H. recurvata (unc O) [H. fraseri var. recurvata]

Microlaena avanacea (O)

M. colensoi s.s. (A, G, O, T) [Ehrharta colensoi]

Poa breviglumis (A, G, O) [P. imbecilla var. breviglumis]

P. celsa (A, G, O, unc T) [P. kirkii in part]

P. cita ssp. cita (A, O) [P. caespitosa]

P. colensoi (G, O, T)

P. kirkii (A, G, O)

P. maia (A, G, T)

Rytidosperma australe (A, O) [Triodia australis]

R. buchananii (A) [Danthonia buchananii]

R. gracile (A, O, T) [Danthonia semiannularis in part]

R. nigricans (G, O, T) [Danthonia semiannularis var. nigricans]

R. pumilum (unc O) [Triodia pumila]

R. setifolium (A, O) [Danthonia semiannularis var. setifolia]

Trisetum youngii (A, O)

T. sp. (a) (A) (plants slender; lf sheath usually glabrous; lf blade flat, up to 2.5 mm wide; margins smooth, usually with a few hairs near ligule) [T. antarcticum in part]

SEDGES

Carex acicularis s.l. (incl. C. allanii) (G)

C. cockayneana (unc O)

C. comans (O)

C. echinata (A, O, T)

C. gaudichaudiana (O)

C. libera (A)

C. pyrenaica var. cephalotes (unc G)

C. sinclairii (A, O, T)

C. trachycarpa (unc A, unc G, O, T)

C. wakatipu s.s. (A)

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

C. sp. (d) (A, O) (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]

Carpha alpina s.s. (A, G, O, T)

Isolopis aucklandica (A, O, T) [Scitpus aucklandicus]

I. caligenis (A, unc O, unc T) [Scitpus caligenis]

Oreobolus inpat (A)

O. pectinatus (A, G, O, T)

O. strictus (A, G, O, T)

Schoenus pauciflorus s.s. (A, G, O, T)

Uncinia astonii (unc G, unc O)

U. caespitosa (A, G)

U. clavata (A, G)

U. divaricata (A, G, O, T)

U. ducei (unc T)

U. filiformis (A, O)

U. fuscovaginata var. (a) (A, O) (plants glaucous)

U. gracilenta (O)

U. involuta (A, G, T)

U. nervosa s.s. (A, G, O, T)

U. rupestris s.l. (incl. U. angustifolia) (O)

U. silvestris (A)

U. uncinata (O)

U. sp. (b) (A, G, O) (U. affinis sensu Hamlin 1959, non U. tiparia var. affinis Clarke; see Nooteboom 1978)

RUSHES AND ALLIED PLANTS

- Empodisma minus (O) [Calorophus minor]
Juncus antarcticus (T)
J. novae-zelandiae (A, G, O, T)
Luzula colensoi (A, G)
L. migrata (A, G, O, T)
L. picta s.s. (O)
L. sp. (undetermined) (unc G)
L. rufa s.s. (O)
L. sp. (a) (A, G, O) [L. picta var. limosa]
L. sp. (b) (A) [L. ciliata var. petricana]
Marsippospermum gracile (A, unc G, unc T)

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

- Astelia fragrans (O)
A. graminea (A, G, O, T)
A. linearis s.l. (incl. A. linearis var. novae-zelandiae) (A, G, O)
A. nervosa s.s. (A, G, O, T)
A. nivicola s.s. (A, G)
A. petriei (A, G, O)
A. skottsbergii (A)
A. sp. (a) (A, G) [A. nivicola var. moriceae]
A. sp. (b) (A, G, O) (aff. A. nervosa but lvs broader and not conspicuously white adaxially) [A. nervosa in part]
Bulbinella hookeri (A, O)
Libertia peregrinans (A)
Phormium cookianum (A, O, T)

DICOTYLEDONOUS HERBS

COMPOSITES

Abrotanella linearis s.s. (A, G, O)

Anaphalis sp. (a) (incl. Helichrysum bellidioides s.s.) (A, O)

Brachydottis sp. (a) (A, G, T) (included in B. bellidioides, as var. crassa, by Nordenstam 1978)

Brachyscome radicata (A, O)

Celmisia alpina s.s. (O)

C. dallii (A, G, O, T)

C. hieraciifolia ssp. hieraciifolia (T)

C. incana s.l. (incl. C. discolor) (A, G, O, T)

C. laticifolia (A, G, O, T)

C. lateralis s.l. (incl. C. lateralis var. villosa) (G, T)

C. montei var. (b) (A, G) (described as C. coriacea var. lanceifolia by Cheeseman 1925)

C. petrici (G, O, T)

C. sessiliflora (A, G, O)

C. similis (T)

C. spectabilis ssp. spectabilis (A, O, T)

C. traversii (A)

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

C. sp. (b) (O, T) (aff. C. gracilentata; plants strongly rhizomatous) [C. gracilentata in part]

C. similis X C. spectabilis (unc T)

Craspedia sp. (a) (A, O) (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 clad in minute glandular hairs; fls white) [C. lanata var. elongata]

C. sp. (b) (A, O) (summer-green plants, usually on limestone cliffs or in calcareous soils; lvs green, elliptic-spathulate; both surfaces densely clad in short glandular hairs; midrib with or without long multicellular non-glandular hairs; lf margins \pm faintly white with cottony hairs; fls white)

C. sp. (c) (A, G, O, T) (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. (w) (A) (summer-green plants on cliffs and in well-drained herbfields; lvs up to 18 cm long, with short broad petiole merging into lamina; both surfaces densely clad in short glandular hairs, with or without longer, multicellular non-glandular hairs with cottony tips; margins conspicuously white with cottony hairs; fls white)

C. sp. (undetermined) (A) (summer-green plants in bogs; lvs green; both surfaces clad sparsely clad in multicellular non-glandular hairs; midrib on undersurface glabrous; fls white)

Dolichoglossis lyallii (unc G, O) [Senecio lyallii]
D. scorzoneroides (A) [Senecio scorzoneroides]
Gnaphalium mackayi s.s. (A, G, O, T) [G. traversii in part]
G. ruahinicum (A) [G. collinum in part]
Haastia sinclairii s.s. (G, O)
Helichrysum filicaule (unc O)
Lagenifera cuneata (A, O, T)
L. strangulata (A, O) [L. petiolata]
Leptinella sp. (b) (O, T) (included in L. squalida, as ssp. mediana,
 by Lloyd and Webb, 1987) [Cotula squalida in part]
L. sp. (d) (A) (aff. L. squalida and L. sp. (b) but pinnae entire
 or almost so) [Cotula squalida in part]
Leucogenes grandiceps (unc A, G, unc O)
Microseris scapigera (A, O)
Racolia eximia s.l. (incl. R. rubra) (A, G)
R. glabra (A, O)
R. grandiflora var. grandiflora (A, G, O, T)
R. subsericea (O)
Senecio wairauensis (A, O) [Erechtites wairauensis]
Taraxacum magellanicum (A)

DICOT HERBS OTHER THAN COMPOSITES

Acaena anserinifolia (O) [A. anserinifolia, A. pusilla,
A. pusilla var. suprasericascens, and A. viridior]
A. fissistipula (O)
A. profundeincisa (A, unc O) [A. anserinifolia var. sericeo-
nitens and A. anserinifolia var. paucidentis]
Aciphylla anomala (A, O, T)
A. colensoi var. colensoi (O, T)

A. ferox (A)

A. glaucescens s.s. (A)

A. polita var. (a) (A, G) (lf segments coarser than in var. polita and stipules mostly simple; see Dawson and Le Compte, 1978)

A. ferox X A. glaucescens (unc A)

Anemone tenuicaulis (A)

Anisotome aromatica (A, G, O, T) [A. aromatica var. aromatica, flabellifolia, incisa, major, obtusata, and pinnatisecta]

A. deltoidea (A)

A. filifolia (G)

A. haastii (A)

Cardamine sp. (a) (A, O) ("Tussock Race" of Pritchard 1957)

Chionochebe pulvinaris (O)

Celobanthus apetalus s.l. (incl. C. apetalus var. alpinus) (O)

Donatia novae-zelandiae (O)

Drosera arcturi (A, O, T)

D. spathulata (A, unco, unct)

D. stenopetalae (A)

Epilobium alsinoides s.s. (A) [E. alsinoides & E. thymifolium]

E. atriplicifolium s.s. (A, unco) [E. alsinoides in part, and E. novae-zelandiae]

E. brunnescens s.s. (O) [E. pedunculata var. brunnescens]

E. chlorifolium (A, O)

E. cockayneanum (A, G, O, T)

E. insulare (T)

E. macropus (O)

E. margaretiae (A, G, unco)

E. narteroides (O) [E. pedunculata var. viride]

E. permitens (A, O, T)

E. pubens (unco)

E. tubtomarginatum (G)

E. sp. (a) (G, O, T) (included in E. brunnescens, as ssp. minutiflorum, by Raven and Engalhorn, 1971) [E. pedunculata var. minutiflorum]

E. sp. (c) (A, G) (aff. E. glabellum; lvs spotted with red; fls pink) [E. glabellum in part]

E. mactopus X E. sp. (a) (unc O)

Euphrasia cheesemanii (A, O)

E. montoi (G)

E. townsonii s.s. (A, G, O, T)

E. zelandica agg. (unc O)

E. sp. (e) (A, G, O) (aff. E. laingii) [E. laingii in part]

E. sp. (m) (unc A) (aff. E. patrici; calyx with glandular hairs; corolla pure white; lobes orientated to form a flat surface)

Forstera mackayi (A, G)

F. sedifolia s.s. (unc O)

F. tenella (A, O)

Galium perpusillum s.s. (A)

Gentiana bellidifolia (A, O)

G. gracilifolia s.l. (incl. G. vernicosa) (A, G, O)

G. montana s.l. (incl. G. montana var. stolonifera, G. patula, and G. bellidifolia var. pulchella) (O)

G. townsonii (?) (T)

G. sp. (o) (O) (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) (G) (described as G. bellidifolia var. australis by Cheeseman 1925)

G. sp. (g) (A, G, O, T) (aff. G. corymbifera, but stems usually multi-branched)

Geranium sp. (c) (A, O) (aff. G. microphyllum) [G. microphyllum in part]

Geum leiospermum (unc A, unc O, T)

G. uniflorum (G)

G. sp. (a) (O) (G. parviflorum agg.; stock short; terminal flt about as long as broad; fls up to 13 mm diam.) [G. parviflorum in part]

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

Hydrocotyle moschata (O)

H. sulcata (O) [H. tripartita in part]

H. sp. (a) var. (a) (A) [H. novae-zeelandiae var. montana]

Kalletia dieffenbachii (A, G, T) [Drapetes dieffenbachii]

K. laxa (A, G, O, T) [Drapetes laxus]

K. multiflora (A, G, T) [Drapetes multiflorus]

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

Lobelia roughii (unc G)

Montia fontana s.s. (O)

Neopaxia sp. (b) var. (a) (A, G, O) (described as Claytonia calycina by Colenso 1896) [Claytonia australasica in part]

Nertera balfouriana (A, O)

N. ciliata (A, O)

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

N. sp. (c) (A) (aff. N. depressa, but lvs larger and more fleshy)

Notthlaspi sp. (b) (G) (N. australe auct., non Thlaspi australe Hook. f.) [N. australe]

Otaconyctis colensoi s.s. (incl. O. colensoi var. hispida and O. colensoi var. multifida) (O)

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

Oxystia lactea ssp. lactea (A, O, T) [O. macrophylla var. lactea]

O. simpsonii (A, G) [O. sessilifolia var. simpsonii]

Oxalis magellanica (A, G) [O. lactea]

Parahabe cheesemanii (G)

P. decora (A, G, unc O)

P. lyallii (A)

Phyllachne clavigera s.l. (incl. P. colensoi) (A, G, O, T)

Plantago lanigera / P. novae-zealandiae (O)
P. raoulii (A, O)
P. uniflora (A, O, T)
Platia angulata agg. (A, O, T)
Psychrophila novae-zealandiae (A, G, O, T) [Caltha novae-zealandiae]
Ranunculus cheesemanii var. cheesemanii (O)
R. foliosus (A, O) [R. foliosus, R. insetus, and R. persectus]
R. gracilipes (O, T) [R. gracilipes and R. sinclairii]
R. membranifolius (O) [R. hirtus in part]
R. verticillatus (A, G, O, T) [R. elivalis]
Schizaelema haastii s.s. (T)
S. nitens (A, O, T)
Scleranthus uniflorus (A, T)
Stellaria decipiens s.l. (incl. S. parviflora) (O)
Viola cuninghamii (O, T)
V. lyallii (A, O)
Wahlenbergia albomarginata var. albomarginata s.l.
(incl. W. breckiei and W. pygmaea var. laxa) (A, G, O)

No. of indigenous species listed for each area:

Arthur (A)	: 229
Gomortah (G)	: 140
Owen (O)	: 236
"Turks Cap" (T)	: 110

ADVENTIVE PLANTS (c.24 SPECIES)

MONOCOTYLEDONOUS HERBS

GRASSES

Agrostis capillaris (A,O)
Anthoxanthum odoratum (A,O)
Bromus hordeaceus (O)
Dactylis glomerata (A,O)
Festuca nigrescens (A,O)
Poa pratensis (A)

SEDGES

Carex ovalis (A)

RUSHES

Juncus articulatus (O)
J. bufonius (O)
J. conglomeratus ? (unc O)
J. effusus (A, unc O?)
J. tenuis (unc O)

DICOTYLEDONOUS HERBS

COMPOSITES

Cirsium vulgare (A)
Crepis capillaris (O)
Hieracium lepidulum (A)
H. pilosella (A)

Hypochoeris radicata (A, O)

Mycelis muralis (A)

Senecio jacobaea (O)

Taraxacum officinale (A)

DICOTYLEDONOUS HERBS OTHER COMPOSITES

Cerastium fontanum ssp. vulgare (A)

Digitalis purpurea (A, O)

Prunella vulgaris (A)

Rumex acetosella (A, O)

Trifolium repens (A)

No. of adventive species listed for each area:

Arthur (A) : 18

Gomorrhah (G) : nil

Owen (O) : 13

"Turks Cap" (T) : nil

RECORDS NOT ACCEPTED

Meliccytus alpinus (Bell 1973, as Hymenanthera alpina)

Festuca multicaulis (Bell 1973)

Lachnagrostis richardii (Bell 1973)

Poa cocharyneana (Bell 1973)

Uncinia banksii (Bell 1973)

U. laxiflora (Bell 1973)

Luzula banksiana (Bell 1973)

Craspedia lanata (Bell 1973)

C. uniflora (Bell 1973)

Colobanthus buechananii (Bell 1973)

Euphrasia australis (Bell 1973)

Gentiana corymbifera (Bell 1973)

Geranium microphyllum (Bell 1973)

Oreomyza ramosa (Bell 1973)

IX. VOUCHER SPECIMENS FOR UNNAMED TAXA

Phyllocladus sp.(a)

Aristotelia fruticosa var.(a)

Coprosma pseudocuneata ssp.(a) (CHR 131711, 249643)

C. sp.(b)

C. sp.(d)

C. sp.(e)

Cyath sp.(a). 131650

Hebe cockayneana var.(a)

Leucopogon fasciculatus var.(a)

Malicytus sp.(f)

Olearia nummularifolia var.(a) (CHR 131719)

Rubus cissoides var.(a)

Blachnum sp.(b)

Asp. d
Chusquea sp.
Elymus (a) + (e)
sp. (b)
19752
Sunder?

Festuca sp.(b)

Trisetum sp.(a) (CHR. 131646, 131648)

Carex sp.(a)

C. sp.(d)

Uncinia sp.(b)

Astelca sp.(b)

check
ssp (e)

Calmisia sp.(a) ssp.(a)

C. sp.(b)

Craspedia

Leptinella sp.(d)

Cardamine sp.(e) (CHR 249820-1 — check.)

Epilobium sp.(c)

Euphrasia sp.(e)

E. sp.(m)

Gentiana sp.(a)

G. sp.(g)

Geranium sp.(c)

Geum sp.(d)

Nertera sp.(d)

N. sp.(c)

Notthlaspi sp.(b)

Oreomyrrhis sp.(d)