

INDIGENOUS HIGHER PLANTS (LYCOPODS, FERNS, GYMNOSPERMS, (77)  
FLOWERING PLANTS) OF HAUTAPU AND MOAWHANGO CATCHMENTS,  
AND ADJACENT AREAS, S.W. KAIMANAWA MOUNTAINS, 1000-5600 FT /

300-1700 M

(Based on observations 1946-1988)

A.P. Druce, Botany Division, D.S.I.R., 1973

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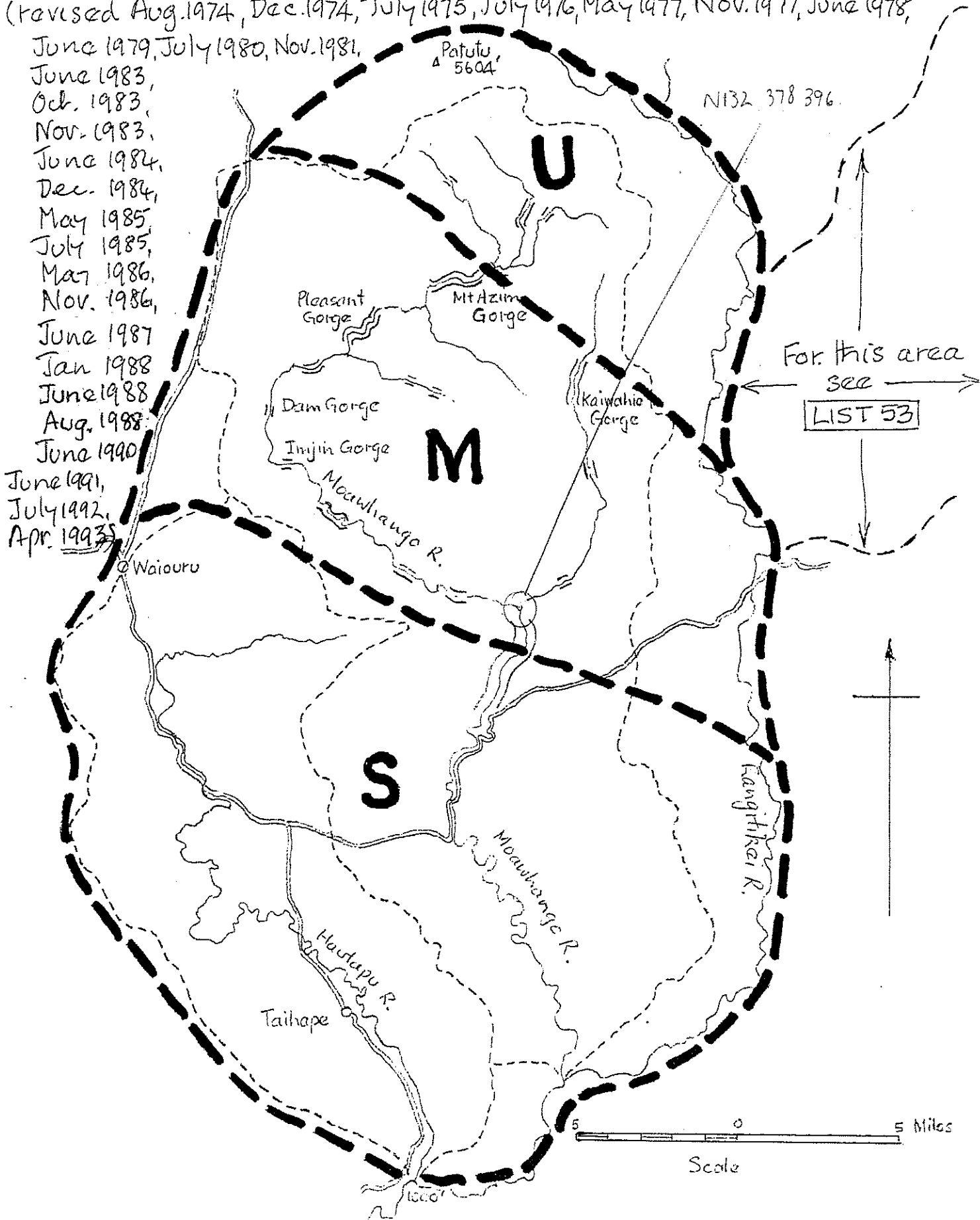
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GYMNOSPERM TREES AND SHRUBS

- Dacrycarpus dactyloides (MS)
- Dacrydium cupressinum (3250ft)<sup>†</sup> (S)
- Halocarpus bidwillii (UM)
- Lagarostrobos colensoi (S)
- Lepidothamnus laxifolius (UM)
- Libocedrus bidwillii (S)
- Phyllocladus alpinus s.s. (UMS)
- Podocarpus hallii (UMS)
- P. nivalis (UM)
- P. totara s.s. (S)
- P. hallii X P. nivalis (UMS)
- Prumnopitys ferruginea (S)
- P. taxifolia (3200ft)<sup>†</sup> (MS)

- Grisebinia littoralis (UMS)
- Hohenia angustifolia (S)
- H. populnea var. lanceolata (MS)
- H. angustifolia X H. populnea (S)
- Lophomyrtus obcordata (S)
- Meliccytus lanceolatus (incl. M.l. var. latior) (S)
- N. ramiflorus ssp. ramiflorus (MS)
- Myoporum laetum var. laetum (S)
- Myrsine australis (S)
- M. salicina (S)
- Nestegis cunninghamii (3200ft) (MS)
- N. lanceolata (S)
- N. montana (S)
- Nothofagus fusca (UMS)
- N. menziesii (M)

NONCOT TREES AND SHRUBS

- Cordyline australis (3250ft)<sup>†</sup> (MS)
- C. banksii (S)
- C. indivisa (UMS)
- C. australis X C. banksii (S)

- N. solandri var. cliffortioides (UMS)
- N. s. var. solandri (S)
- N. fusca X N. solandri (UMS)
- N. solandri var. cliffortioides ⇌

DICOT TREES

- Alectryon excelsus var. excelsus (S)
- Aristotelia serrata (UMS)
- Carpodetus serratus (UMS)
- Elaeocarpus dentatus (incl. E.d. var. obovatus) (S)
- E. hookerianus (UMS)
- Fuchsia excorticata (UMS)

- N. s. var. solandri (MS)
- Olearia paniculata (S)
- O. rani var. colorata (S)
- Pennantia corymbosa (S)
- Pittosporum rugenioides (S)
- P. tenuifolium ssp. colensoi (UMS)
- P. t. ssp. tenuifolium (MS)
- P. t. ssp. colensoi ⇌ ssp. tenuifolium (MS)

<sup>†</sup> max. altitude

<i>Plagianthus regius</i> var. <i>regius</i>	( S )	<i>Coprosma acetosa</i> ssp.	(UMS)
<i>Pseudopanax arboreus</i> var. <i>arboreus</i>	( MS )	<i>C. cheesemaniae</i> s.s.	(UMS)
<i>P. colensoi</i> s.s.	(UMS)	<i>C. colensoi</i> s.s.	(U S)
<i>P. crassifolius</i>	(UMS)	<i>C. crassifolia</i>	( MS )
<i>P. edgerleyi</i>	( S )	<i>C. depressa</i>	(UM )
<i>P. ferox</i>	( S )	<i>C. foetidissima</i>	(UMS)
<i>P. simplex</i> (incl. <i>P. s. var. sinclairii</i> )	(UMS)	<i>C. grandifolia</i>	( S )
<i>Schefflera digitata</i>	( S )	<i>C. linearifolia</i>	(UMS)
<i>Sophora microphylla</i>	( MS )	<i>C. lucida</i> s.s.	( S )
<i>S. tetraptera</i>	( MS )	<i>C. microcarpa</i>	(UMS)
<i>S. microphylla</i> X <i>S. tetraptera</i>	( S )	<i>C. obconica</i> ssp. <i>obconica</i>	( S )
<i>Strabulus heterophyllus</i>	( S )	<i>C. perpusilla</i> ssp. <i>perpusilla</i>	(UM )
		<i>C. petrici</i>	(UMS)
		<i>C. propinqua</i> ssp. <i>propinqua</i>	(MS)

DICOT SHRUBS

<i>Alepis flavida</i>	(UMS)	<i>C. thamnicoides</i>	
<i>Alseuosmia pusilla</i>	( S )	(incl. <i>C. polymorpha</i> )	(UMS)
<i>Aristolelia fruticosa</i> var. <i>microphylla</i>	(UMS)	<i>C. rigida</i>	( S )
<i>A. f. var. m. X A. serrata</i>	( MS )	<i>C. robusta</i>	( MS )
<i>Brachyglottis bidwillii</i> var. <i>bidwillii</i>	( U )	<i>C. totundifolia</i>	( S )
<i>B. repanda</i> s.s.	( S )	<i>C. rubra</i>	( S )
<i>Carmichaelia arborea</i> var. ( <i>C. odorata</i> )	( MS )	<i>C. rugosa</i> ssp. <i>rugosa</i>	(UMS)
<i>C. enysii</i> var. <i>orbiculata</i>	(UM )	<i>C. tenuifolia</i>	(UMS)
<i>C. sp.</i> (subgenus <i>Carmichaelia</i> )	(UMS)	<i>C. vitescens</i>	( MS )
<i>C. enysii</i> X <i>C. sp.</i> (subgenus <i>Carmichaelia</i> )	(UM )	<i>C. wallii</i>	( S )
<i>Cassinia vauvilliersii</i>	(UMS)	<i>C. sp. (i)</i> (unnamed; included in <i>C. parviflora</i> by Oliver, 1935, and others)	
		(If undersurface not minutely hairy as is usual in <i>C. parviflora</i> ; dupes us unpigmented, occ. purplish red)	(UMS)
		<i>C. sp. (ii)</i> (unnamed; aff. <i>C. cheesemaniae</i> ) (lvs broader than in <i>C. cheesemaniae</i> )	(UM )

<i>C. sp. (i) X C. sp. (ii)</i>	(U )		
<i>C. propinqua X C. robusta</i>	( MS )	<i>G. macrostigma X G. sp. (unnamed)</i>	(UMS)
<i>C. p. X C. tenuifolia</i>	( S )		
<i>C. robusta X C. tenuifolia</i>	( M )	<i>Hebe colensoi (incl. H. c. var. hillii)</i>	(UMS)
<i>Cottaria arborea</i>	( MS )	<i>H. macrocarpa var. (H. corriganii)</i>	(UM )
<i>C. kingiana</i>	( MS )	<i>H. odora s.s.</i>	(UM )
<i>C. plumosa</i>	(U )	<i>H. stricta var. stricta</i>	( MS )
<i>C. pteridoides</i>	(UMS)	<i>H. tetragona var. tetragona</i>	(UM )
<i>C. arborea X C. kingiana</i>	( MS )	<i>H. venustula (incl. H. brachysiphon)</i>	(UM )
<i>C. a. X C. pteridoides</i>	(UMS)	<i>H. sp. (i) (unnamed)</i>	
<i>C. kingiana X C. pteridoides</i>	( MS )	<i>var. (i) (included in H. stricta, as var. lata, by Moore 1961)</i>	(UM )
<i>Corokia cotoneaster var. cotoneaster</i>	( MS )	<i>var. (ii) (included in H. stricta, as var. egmontiana, by Moore 1961)</i>	(U )
<i>Cyathodes dealbata (incl. C. pumila)</i>	(UM )	<i>var. (i) <math>\Rightarrow</math> var. (ii)</i>	(U )
<i>C. ampelifolia</i>	(UMS)	<i>H. sp. (ii) (Veronica arborea)</i>	( M )
<i>C. sp. (C. juniperina agg.) (lvs small, vs. <math>\angle</math> 1cm X <math>\angle</math> 1mm)</i>	(UMS)	<i>H. sp. (iii) (Veronica squalida)</i>	(UMS)
<i>Discaria foenatae</i>	( MS )	<i>H. macrocarpa X H. venustula</i>	(UM )
<i>Dracophyllum longifolium var. (incl. D. filifolium and D. oliveri)</i>	(U )	<i>H. odora X H. tetragona</i>	(UM )
<i>D. recurvum</i>	(UM )	<i>H. venustula X H. sp. (i) var. (i)</i>	(U )
<i>D. subulatum</i>	(UMS)	<i>Helichrysum aggregatum var. agg.</i>	(UMS)
<i>D. longifolium X D. subulatum</i>	(U )	<i>Koehleria clavata</i>	( S )
<i>D. recurvum X D. subulatum</i>	(UM )	<i>K. lindsayi</i>	( S )
<i>Epactis alpina</i>	(UMS)	<i>Kunzea oticoides agg.</i>	(UMS)
<i>Fuchsia excorticata X F. perscaudens</i>	( S )	<i>Leptospermum scoparium</i>	(UMS)
<i>Gaultheria antipoda</i>	(UMS)	<i>Leucopogon fasciculatus var. L. fraseri s.s.</i>	(UMS)
<i>G. colensoi</i>	(UM )	<i>L. suaveolens (incl. C. cyathodes colensoi)</i>	(UMS)
<i>G. sp. (unnamed; included in G. depressa, as var. novae-zelandiae, by Franklin 1962)</i>	(UMS)	<i>Logania depressa (Colenso 1884)</i>	( M )
<i>G. macrostigma</i>	(UMS)	<i>Melicope simplex</i>	( S )
<i>G. antipoda X G. colensoi</i>	(U )	<i>Melicytus alpinus s.s.</i>	(UMS)
<i>G. a. X G. sp. (unnamed)</i>	( M )	<i>M. micranthus (incl. M. m. var. microphyllus)</i>	( S )
<i>G. a. X G. macrostigma</i>	( M )	<i>M. sp. (unnamed) (leafless shrub)</i>	( S )
<i>G. colensoi X G. sp. (unnamed)</i>	( M )	<i>M. sp. X M. lauceolatus</i>	( S )
<i>G. c. X G. macrostigma</i>	(UM )	<i>M. micranthus X M. tamiflorus</i>	( S )
		<i>Myrsine divaricata s.s.</i>	(UMS)
		<i>M. nummularia</i>	(UM )
		<i>Neomyrtus pedunculata</i>	(U S)

<i>Olearia arborescens</i>	(UMS)	<i>Matrosideros colensoi</i> (incl.	
<i>O. cheesemanii</i>	(M)	<i>M.e. var. pendens</i> )	(S)
<i>O. furfuracea</i> var.		<i>M. diffusa</i>	(S)
	(UMS)		
<i>O. hectetii</i>	(S)	<i>Muehlenbachia australis</i>	(MS)
		<i>M. axillaris</i>	(UM)
<i>O. nummularifolia</i> var. <i>nummularifolia</i>	(UMS)	<i>M. complexa</i>	(MS)
<i>O. solandri</i>	(S)	<i>M. ephedroides</i>	(M)
<i>O. virgata</i> var. (lv smaller than in var. <i>virgata</i> )	(UMS)	<i>M. australis</i> X <i>M. complexa</i>	(S)
<i>Pentachorda pumila</i>	(UMS)	<i>M.a. X M. axillaris</i>	(M)
<i>Peraxilla tetrapetala</i>	(UMS)	<i>M. axillaris</i> X <i>M. ephedroides</i>	(M)
		<i>M. complexa</i> X <i>M. ephedroides</i>	(M)
		<i>Parsonia capsularis</i> var.	(MS)
		<i>P. heterophylla</i>	(S)
<i>Pimelea aridula</i>	(MS)	<i>Passiflora tetrandra</i>	(S)
<i>P. buxifolia</i>	(U)	<i>Rubus cissoides</i> var. (leaflets narrower than in var. <i>ciss.</i> )	(UMS)
<i>P. microphylla</i>	(UM)	<i>R. schmidelioides</i> var. <i>schmid.</i>	(MS)
<i>P. oreophila</i>	(UM)	<i>R. squarrosus</i>	(S)
<i>P. prostrata</i>	(UMS)		
<i>P. aridula</i> X <i>P. prostrata</i>	(MS)		
<i>Pittosporum anomalum</i>	(U)		
<i>P. divaricatum</i>	(M)		
<i>P. obcordatum</i>	(S)		
<i>Pseudopanax anomalus</i>	(UMS)		
<i>P.a. X P. simplex</i>	(S)		
<i>Pseudowintera colorata</i>	(UMS)		
<i>Teuclidium parvifolium</i> (incl. <i>T.p.</i> var. <i>luxurians</i> )	(S)		
<i>Tupeia antarctica</i>	(S)		
<i>Urtica foerx</i>	(S)		

**LYCOPODS**

<i>Lycopodium austalianum</i>	(UMS)
<i>L. fastigiatum</i>	(UMS)
<i>L. laterale</i> (incl. <i>L. ramulosum</i> ?)	(M)
<i>L. scariosum</i>	(UM)
<i>L. varium</i> (incl. <i>L. billardierei</i> ? <i>L. novae-zelandicum</i> )	(U S)
<i>L. volubile</i>	(S)

**FERNS**

<i>Adiantum cummingshamii</i>	(MS)
<i>Asplenium bulbiferum</i>	(S)
<i>A. flabellifolium</i> agg.	(UMS)
<i>A. flaccidum</i>	(UMS)
<i>A. gracillimum</i>	(MS)
<i>A. hookerianum</i>	(UMS)
<i>A. lyallii</i>	(S)
<i>A. oblongifolium</i>	(S)
<i>A. polyodon</i>	(S)
<i>A. richardii</i>	(UMS)
<i>A. terrestre</i> ssp. <i>terrestre</i>	(MS)

**DICOT LIANES AND RELATED PLANTS**

<i>Calystegia tuguriorum</i>	(S)
<i>Clematis foetida</i>	(MS)
<i>C. forsteri</i>	(UMS)
<i>C. paniculata</i>	(S)
<i>C. quadribracteolata</i>	(MS)
<i>Fuchsia perscaudens</i>	(S)

A.sp. (unnamed; aff. *A. trichomanes*) ( M )  
*A. flaccidum* X *A. gracillimum* ( S )  
*A. hookerianum* X *A. richardii* ( U )  
*Azolla filiculoides* ( MS )  
*Blechnum chambersii* ( UMS )  
*B. colensoi* ( MS )  
*B. discolor* ( UMS )  
*B. fluviatile* agg. ( UMS )  
*B. membranaceum* ( S )  
*B. minus* ( UMS )  
*B. penna-marina* ( UMS )  
*B. procerum* ( UMS )  
*B. vulcanicum* ( UMS )  
*B. sp. (i)* (*B. capense* agg.) (common lowland sp.; lower pinnae reduced in length) ( UMS )  
*B. sp. (ii)* (*B. capense* agg.) (cliff sp.; lower pinnae not reduced) ( U )  
*B. sp. (iii)* (*B. capense* agg.) (mtn sp.; lower pinnae not reduced) ( U )  
 (The Dunedin-Cass Variety of Crookes 1963)  
*B. chambersii* X *B. membranaceum* ( S )  
*B. procerum* X *B. sp. (i)* ( M )  
*Botrychium australe* ( UMS )  
*B. bifforme* ( S )  
*Cheilanthes humilis* ( M )  
  
*Ctenopteris heterophylla* ( MS )  
*Cyathea dealbata* ( S )  
*C. smithii* ( S )  
*Cystopteris tasmanica* ( UM )  
*Dicksonia fibrosa* ( MS )  
*D. squarrosa* ( S )

*Diplazium australe* ( S )  
*Gleichenia dicarpa* ( UMS )  
*Grammitis billardierei* ( UMS )  
*G. ciliata* ( S )  
*G. magellanica* ssp. *nothofageti* ( UMS )  
*G. patagenica* ( UMS )  
*G. poeppigiana* ( UM )  
*Histiopteris incisa* ( UMS )  
*Hymenophyllum bivalve* ( S )  
*H. cupressiforme* ( M )  
*H. demissum* ( S )  
*H. dilatatum* ( S )  
*H. flabellatum* ( S )  
*H. malingii* ( S )  
*H. multifidum* ( UMS )  
*H. peltatum* ( S )  
*H. rarum* ( U )  
*H. rufescens* ( S )  
 \* *H. sanguinolentum* agg. ( UMS )  
*Hypolepis ambigua* ( S )  
*H. millefolium* ( U )  
*H. rufobarbata* ( MS )  
*Lastreopsis glabella* ( S )  
*Leptolepia novae-zelandiae* ( S )  
*Leptopteris hymenophylloides* ( UMS )  
*L. superba* ( UMS )  
*Ophioglossum cortaceum* agg. ( UMS )  
*Paesia scaberula* ( UMS )  
*Pellaea rotundifolia* ( S )  
*Phymatosorus pustulatus* ( MS )  
*Pneumatopteris pennigera* ( MS )  
*Polystichum richardii* ( MS )  
*P. silvaticum* ( S )  
*P. vestitum* ( UMS )  
*P. richardii* X *P. vestitum* ( S )  
*Pteridium esculentum* ( UMS )  
*Pteris tremula* ( S )  
*Pyrosia elegnifolia* ( MS )  
*Rumohra adiantiformis* ( S )  
*Sticherus cunninghamii* ( UMS )  
*Tichomanes venosum* ( S )  
 \* *H. villosum* ( S )

Anemantrele lessoniana ( S )

GRASSES

- Agrostis dyeri ss. (UM )
- A. imbecilla ( U )
- A. muscosa (UM )
- A. pallescens (U )
- A. personata (U )
- Amphibromus fluitans ( MS )
- Chionochloa pallens ssp. pallens (UM )
- C. rubra ssp. rubra (UMS)
- C. pallens X C. rubra (UM )
- Cortaderia fulvida (UMS)
- Deschampsia caespitosa var. mactanthal (U )
- D. novae-zelandiae (U )
- D. tenella (UM )
- Deyeuxia aucklandica (U )
- D. avenoides (incl. D. a. var. brachyantha) (UMS)
- D. sp (D. quadrisetosa agg.) (UMS)
- Dichelachne crinita (UMS)
- D. crinita X Deyeuxia avenoides(?) ( M )
- Echinopogon ovatus ( S )
- Elymus multiflorus ( MS )
- E. hardyoides (UMS)
- E. tenuis ( M )
- E. sp. (aff. E. rectisetus) (Series 2 Group Waioitu, of Love and Connor, 1982) (UMS)
- E. multiflorus X E. sp. (E. rect. agg.) ( MS )
- Festuca multinodis ( M )
- F. novae-zelandiae (UMS)
- F. sp. (unnamed; aff. F. rubra) (U )
- Hierochloa recurvata (UM )
- H. redolens (UMS)

ORCHIDS

- Aporostylis bifolia (UM )
- Caladenia carnea agg. (UM )
- C. lyallii (UM )
- Chiloglottis cornuta (UMS)
- Corybas mactanthus (UMS)
- C. rivularis ss. (UMS)
- C. trilobus ss. (UMS)
- Eatina autumnalis ( S )
- E. mucronata s.s. ( S )
- Gastrodia cunninghamii (UM )
- G. minor ( MS )
- Microtis oligantha (UM )
- M. parviflora ( S )
- M. unifolia (UMS)
- Orthoceras novae-zelandiae (UM )
- Prasophyllum colensoi (UMS)
- Pterostylis banksii ( S )
- P. foliata ( S )
- P. humilis (UM )
- P. micromega ( S )
- P. patens (UMS)
- P. tristis ( S )
- P. venosa (U )
- P. sp. (unnamed; aff. P. montana) (U S)
- Spiranthes novae-zelandiae (UM )
- Thelymitra cyanea (UM )
- T. decora (UMS)
- T. formosa (UM )
- T. hatchii (UM )
- T. longitolia (UMS)

*Koeleria cheesemanii* (U )  
*K. sp. (K. novozelandica agg.) (vs narrow)* (U )  
*K. cheesemanii* x *K. sp. (?)* (U )  
*Lachnagrostis filiformis* s.s. (M )  
*L. striata* (UM )  
*L. sp. (i) (unnamed; included in L. filiformis, as var. semiglabra, by Zotov 1965)* (UMS)  
*L. sp. (ii) (unnamed) (awns short)* (U )  
*Microlaena avenacea* (MS)  
*M. polynoda* (S)  
*M. stipoides* (UMS)  
*Poa anceps* ssp. *anceps* (UMS)  
*P. breviglumis* (UM )  
*P. cita* ssp. (UMS)  
*P. colensoi* (UM )  
*P. imbecilla* (S)  
*P. matthewsii* (S)  
*P. pusilla* (UM )  
*P. anceps* x *P. cita* (U )  
*Rytidosperma buchamanii* (UMS)  
*R. clavatum* (UMS)  
*R. gracile* (UMS)  
*R. marum* (M )  
*R. pulchrum* (U )  
*R. pumilum* (U )  
*R. setifolium* (UMS)  
*R. unarode* (S)  
*Thisetum sp. (i) (unnamed; aff. T. antarcticum) (lf sheath densely hairy; lf blade margins with hairs)* (UM )  
*T. sp. (ii) (unnamed; aff. T. antarcticum) (plants robust; lf sheath glabrous at least in upper part; lf blade margins scabrid)* (MS)  
*T. sp. (iii) (unnamed) (plants slender; lf sheath glabrous, or nearly so)* (MS)  
*Zoysia minima* (M )

**SEDGES**

*Baumea huttonii* (S)  
*B. tubiginosa* (MS)  
*B. tenax* (MS)  
*B. teretifolium* (S)  
*Carex astonii* (UM )  
*C. berggrenii* (U )  
*C. breviculmis* (UMS)  
*C. colensoi* (M )  
*C. comans* (MS)  
*C. coriacea* (UMS)  
*C. dipsacea* var. (*C. tahoaia*) (UMS)  
*C. dissita* (MS)  
*C. echinata* var. (*C. stellulata* var. *australis*) (UMS)  
*C. flagellifera* (MS)  
*C. forsteri* (UMS)  
*C. gaudichaudiana* (UM )  
*C. geminata* s.s. (S)  
*C. inversa* (MS)  
*C. lambertiana* (S)  
*C. maorica* (US)  
*C. petriei* (U )  
*C. raoulii* (S)  
*C. tubicunda* (UM )  
*C. secta* s.s. (UMS)  
*C. sinclairii* (MS)  
*C. solandri* (UMS)  
*C. testacea* s.s. (UMS)  
*C. unciifolia* (U )  
*C. virgata* (MS)  
*C. astonii* x *C. unciifolia* (U )  
*C. dipsacea* x *C. tubicunda* (U )  
*Carpha alpina* s.s. (UMS)  
*Eleocharis acuta* (UMS)  
*E. gracilis* (UMS)  
*Gahnia* sp. (M )  
*Isolepis aucklandica* (U )  
*I. caligenis* (UM )  
*I. crassiuscula* (UM )  
*I. distigmata* (S)  
*I. fluitans* (UMS)  
*I. habra* (UMS)  
*I. pottsii* (UMS)  
*I. reticularis* (S)  
*I. subtilissima* (UMS)



Lepidosperma australe (UMS)  
 Machaetina sinclairii (MS)  
 Oteobolus pectinatus (UMS)  
 Schoenus apogon (incl. S. a. var. caespitosus) (S)  
 S. conclinus (UM)  
 S. fluitans (UMS)  
 S. maschalinus (M)  
 S. pauciflorus s.s. (= "slender form" of Edgar 1970, p. 194) (UMS)

Uncinia caespitosa (Hamlin 1959) (U)  
 U. clavata (UMS)  
 U. divaricata (UM)  
 U. ferruginea (S)  
 U. fuscovaginata var. fuscovag. (U)  
 U. involuta (UM)  
 U. laxiflora (MS)  
 U. rubra (UMS)  
 U. rupestris (incl. U. angustifolia) (UMS)  
 U. scabra (UMS)  
 U. silvestris (incl. U. affinis) (UM)  
 U. strictissima (S)  
 U. uncinata (UMS)  
 U. vitidis (UM)  
 U. zotovii (S)  
 U. sp. (unnamed) (U. affinis sensu Hamlin 1959, non U. hyparica var. affinis Col. ex Clarke)

**RUSHES**

Centrolepis ciliata (UM)  
 Empodisma minus (UMS)  
 Juncus antarcticus (UM)  
 J. australis (MS)  
 J. distegis (MS)  
 J. gregiflorus (UMS)  
 J. novae-zelandiae (UMS)  
 J. planifolius (M)  
 J. pusillus (UM)  
 J. saiophotus (S)

Luzula colensoi (UM)  
 L. decipiens (UM)  
 L. leptophylla (U)  
 L. migrata (UMS)  
 L. picta s.s. (UMS)  
 L. subclavata (UMS)  
 L. sp. (i) (unnamed; included in L. picta, as var. limosa, by Edgar 1966) (UM)  
 L. sp. (ii) (unnamed; included in L. rufa, as var. albicomans, by Edgar 1966) (U)  
 L. colensoi X L. migrata (U)  
 L. leptophylla X L. migrata (?) (U)

**MONOCOT HERBS (OTHER THAN ORCHIDS, GRASSES, SEDGES, RUSHES)**

Arthropodium candidum (MS)  
 Astelia fragrans (UMS)  
 A. solandri (=)  
 A. sp. (unnamed; aff. A. nervosa) (lvs not conspicuously white adaxially as in A. nervosa) (U)  
 Bulbniella hookeri (UMS)  
 Collosperrmun mictospermum (S)  
 Dianella nigra (S)  
 Heteropolygon novae-zelandiae (UMS)  
 Lemna sp. (L. minor auct. N.Z.) (S)  
 Libertia ixioides (MS)  
 L. peragrarians (S)  
 L. pulchella (S)  
 Luzuriaga parviflora (U)  
 Phormium cockianum (UMS)  
 P. tenax (S)

Potamogeton suboblongus (UMS)  
 P. cheesemanii (UMS)  
 Triglochin striata (UM)  
 Typha orientalis (S)  
 Wolffia australiana (S)

**COMPOSITE HERBS**

Brachyglottis lagopus var. lagopus (UMS)  
 Brachyscome radicata (UMS)  
 Calmisia glandulosa ssp. glandulosa (incl. C.g. var. latifolia) (UMS)  
 C. gracilentia ssp. (UMS)  
 C. spectabilis ssp. spectabilis (UMS)  
 C. sp. (unnamed; aff. C. gracilentia) (plants strongly rhizomatous) (UMS)  
 C. glandulosa X C. sp. (unnamed) (M)  
 C. gracilentia X C. spectabilis (U S)  
 Centipeda minima (UMS)  
 Leptinella pusilla (UMS)  
 L. sp. (unnamed; aff. L. squalida) (UMS)  
 Craspedia minor var. minor (incl. C. major) (UMS)  
 C. viscosa (UMS)  
 C. sp. (unnamed) (plants summer-green; lvs small, green; both surfaces densely clad in multicellular, non-stamular hairs with or without cottony tips, \* [cont. below]) (UMS)  
 Gnaphalium audax (UMS)  
 G. delicatum (UM)  
 G. ensifer (M)  
 G. gymnocephalum (S)  
 G. involucratum (MS)  
 G. limosum s.s. (UMS)  
 G. paludosum s.s. (UM)  
 G. polylepsis (MS)  
 G. wahanicum (U)  
 G. traversii (UMS)  
 \* [cont. from above]  
 over short glandular hairs; margins ± white with cottony hairs; capitula small, 0.8-1.5 cm diam; fls white) (UMS)  
 G. sp. (unnamed; aff. G. paludosum) (lvs linear, green on upper surface) (UM)

(lvs linear, green on upper surface) (UMS)  
 Anaphalis kerriensis ss. (MS)  
 A. subrigida (MS)  
 A. sp. (i) (unnamed; aff. A. kerriensis)† (UMS)  
 A. sp. (ii) (Helichrysum ballioides ss) (UMS)  
 A. sp. (iii) (unnamed) ("Helichrysum alpinum" of Cockayne 1928) (UMS)  
 A. kerriensis X A. subrigida (S)  
 A. subrigida X A. sp. (i) (M)  
 A. sp. (i) X A. sp. (ii) (U)  
 Helichrysum filicaule (UMS)  
 Lagenifera cuneata (UM)  
 L. montana (MS)  
 L. petiolata (S)  
 L. pumila (UMS)  
 L. strangulata (UMS)  
 Leucogenes leontopodium ss. (U)  
 Microsaris scapigera var. (UMS)  
 Pseudognaphalium sp. (i) (unnamed; aff. P. luteoalbum) (lvs mostly linear-spathulate to linear, acute) (MS)  
 P. sp. (ii) (unnamed; aff. P. luteoalbum) (UM)  
 Raoulia albosericea (UM)  
 R. glabra (UMS)  
 R. grandiflora var. grandiflora (UM)  
 R. tenuicaulis (incl. R. t. var. dimorpha and R. t. var. pusilla) (UMS)  
 R. sp. (ii) (unnamed; aff. R. australis) (UMS)  
 R. sp. (ii) (unnamed) (lvs small, grey; inner phyllaries black-tipped) (UMS)  
 R. albosericea X R. sp. (ii) (UM)  
 R. a. X R. sp. (ii) (UM)  
 R. tenuicaulis X R. sp. (ii) (M)

*Senecio glaucophyllus* ssp. *foa* (UMS)

*S. glomeratus* ( S)

*S. minimus* (UMS)

*S. quadridentatus* (UMS)

*S. rufiglandulosus* var. *rufiglandulosus* (UMS)

*S. waitauensis* (UM )

*S. sp.* (unnamed; included in *S. glaucophyllus*, as ssp. *discolorus*, by Ordoff 1960) ssp. (unnamed) (UM )

*Taraxacum magellanicum* (U )

*Vittadinia australis* agg. (UMS)

**DICOT HERBS (OTHER THAN COMPOSITES)**

*Acaena anserinifolia* (UMS)

*A. emittens* (UM )

*A. inermis* (UM )

*A. juvenca* ( MS)

*A. microphylla* var. *microphylla* (UMS)

*A. profundeincisa* (U )

*A. anserinifolia* x *A. microphylla* ( M )

*A. a.* x *A. juvenca* ( S)

*A. emittens* x *A. inermis* ( M )

*Aciphylla colensoi* var. *colensoi* (UM )

*A. sp.* (unnamed; aff. *A. squarrosa*) (UMS)

*Anisotome aromatica* (UMS)

*Australina pusilla* ( S)

*Callitriche pettici* ssp. *pettici* ( S)  
(U )

*Cardanuncus* sp. (i) (*C. debilis* agg.)

("Narrow Petal" of Pritchard 1957) ( MS)

*C. sp.* (ii) (*C. debilis* agg.) ("Glossy Leaf" of Pritchard) ( MS)

*C. sp.* (iii) (*C. debilis* agg.) ("Long

Style" of Pritchard) (U S)

*C. sp.* (iv) ("Tussock Race" of Pritchard) (U )

*C. sp.* (v) ("Scree Race" of Pritchard) (U )

*C. sp.* (vi) (aff. *C. corymbosa*) (U )

*C. sp.* (vii) (*C. debilis* agg.) (U )

*Centella uniflora* (UMS)

*Colobanthus apetalus* (incl. *C. a.* var. *alpinus*) (UM )

*C. strictus* (UM )

*C. sp.* (unnamed; aff. *C. buechananii*) (discussed by Moore 1961, p. 212) (U )

*Crassula sp.* (cf. *C. sieberiana* and *C. tetramera*) ( MS)

*Dichondra repens* agg. ( MS)

*D. sp.* (i) (unnamed; aff. *D. brevifolia*) (UMS)

*D. sp.* (ii) (unnamed) (plants slender; fls small) ( S)

*Drosera arcturi* (UM )

*D. binata* (UM )

*D. peltata* ssp. *auriculata* ( S)

*D. pygmaea* (UMS)

*D. spatulata* (UM )

*Epilobium alsinoides* ss. (UMS)

*E. astonii* (UMS)

*E. atriplicifolium* ss. (UMS)

*E. billardiereanum* ( M )

*E. brunnescens* ss. (UMS)

*E. chionanthum* (UMS)

*E. chlorifolium* (UM )

*E. cinereum* (UMS)

*E. cockayneanum* (UM )

*E. glabellum* ss. (UM )

*E. hectorii* ss. ( MS)

<i>E. insulare</i> ss.	(UMS)		
<i>E. i.</i> (ovate-lvd form - see Raven and Raven, 1976, p. 158)	( S )	<i>Geranium</i> sp. (unnamed; aff. <i>G. microphyllum</i> )	(UMS)
<i>E. komarovianum</i>	(U S)	<i>G. potentilloides</i> var. <i>potentilloides</i>	(UMS)
<i>E. linnaeoides</i>	(UMS)	<i>G. sessiliflorum</i> var. <i>novae-zeelandiae</i>	(UMS)
<i>E. macropus</i>	(UM )		
<i>E. melanocaulon</i>	(UM )		
<i>E. microphyllum</i>	(UM )	<i>Geum</i> sp. ( <i>G. parviflorum</i> agg.)	
		(stock short; terminal leaflet about as long as broad; fls up to 13 mm diam)	(U )
<i>E. nerteroides</i>	(UMS)	<i>Gingidia montana</i>	(UMS)
<i>E. nummulariflorum</i>	(UMS)	<i>Glossostigma elatinoides</i>	(UM )
<i>E. pallidiflorum</i>	(MS)	<i>Gonocarpus aggregatus</i>	(UMS)
<i>E. pedunculata</i> ss.	( S )	<i>G. micranthus</i> ssp. <i>micranthus</i>	(UMS)
		<i>G. montanus</i> (Orchard 1975)	
<i>E. pubens</i>	(UMS)	<i>Gunnera dentata</i> var. <i>dentata</i>	(UM )
<i>E. pycnostachyum</i>	(UM )	<i>G. monolca</i>	( S )
<i>E. rotundifolium</i>	(MS)		
<i>E. tenuipes</i> ss.	(UMS)	<i>G. prorepens</i>	(UMS)
<i>E. sp. (i)</i> (unnamed; included in <i>E. brunnescens</i> , as ssp. <i>minutiflorum</i> , by Raven & Engalhorn, 1971)	(U S)	<i>Haloragis erecta</i> ssp. <i>erecta</i>	(MS)
<i>E. sp. (ii)</i> (?) (aff. <i>E. pernitens</i> )	(U )	<i>Hydrocotyle dissecta</i>	(U )
<i>Euphrasia cuneata</i>	(UMS)	<i>H. elongata</i>	(MS)
<i>E. zelandica</i> agg.	(UM )	<i>H. heterometria</i>	(UMS)
<i>Forstera bidwillii</i> (incl. <i>F. b.</i> var. <i>densifolia</i> )	(U )	<i>H. hydrophila</i>	(MS)
<i>Galium patposillum</i> ss.	(UMS)	<i>H. microphylla</i>	(U )
<i>G. propinquum</i>	(UMS)	<i>H. moschata</i>	(UMS)
<i>G. trilobum</i>	( S )	<i>H. novae-zeelandiae</i> ss.	( S )
<i>Gentiana bellidifolia</i> var. <i>bellid.</i>	(UM )	<i>H. pterocarpa</i>	( S )
<i>G. grisebachii</i>	(UMS)	<i>H. sulcata</i>	(UM )
<i>G. montana</i> (incl. <i>G. m.</i> var. <i>stolonifera</i> , <i>G. patula</i> , and <i>G. bellidifolia</i> var. <i>pulchella</i> )	(U )	<i>H. sp.</i> (unnamed; included in <i>H. n.z.</i> , as var. <i>montana</i> , by Kirk 1899) var.	(UMS)
		<i>Hypericum japonicum</i> agg.	(UMS)
		<i>H. sp.</i> (unnamed) (much smaller than <i>H. japonicum</i> )	(UM )
		<i>Jovellana sinclairii</i>	( S )

<i>Kelleria dieffenbachii</i>	(UM )	<i>N. setulosa</i>	(U S)
<i>K. laxa</i>	(UM )	<i>N. sp. (i) (unnamed)</i> (lvs small, glabrous; drupes globose, orange-red)	(U )
		<i>N. sp. (ii) (unnamed; aff. N. dichondrifolia)</i> (hairs present on both surfaces of lf, straight, not hooked as in <i>N. dichondr.</i> )	(UMS)
<i>Lilaeopsis ruthiana</i>	(UM )	<i>Oreomyrrhis colensoi</i> s.s. (incl. <i>O. c.</i> var. <i>hispida</i> and <i>O. c.</i> var. <i>multifida</i> )	(U )
<i>Limosella lineata</i>	( M )	<i>O. sp. (i) (unnamed; aff. O. ramosa)</i>	(UMS)
<i>Linum monogynum</i>	(UMS)	<i>O. sp. (ii) (unnamed; included in O. colensoi, as var. delicatula, by Allan, 1961)</i>	(U S)
<i>Liparophyllum gunnii</i>	(U )	<i>Oreostylidium subulatum</i>	(UM )
<i>Mazus radicans</i>	( S )	<i>Ourisia colensoi</i>	(U )
<i>Nentzia cunninghamii</i>	(UMS)	<i>O. lactea</i> ssp. <i>drucei</i>	(U )
<i>Montia fontana</i> s.s.	(UMS)	<i>O. macrophylla</i> ssp. <i>robusta</i>	(MS)
		<i>O. vulcanica</i>	(UM )
<i>Myosotis eximia</i>	(UM )		
<i>M. forsteri</i>	(UMS)	<i>O. lactea</i> x <i>O. vulcanica</i>	(U )
<i>M. sp. (i) (unnamed; included in M. pygmaea, as var. drucei, by Moore 1961)</i>	(U )	<i>Oxalis exilis</i>	(UMS)
<i>M. sp. (ii) (unnamed; included in M. pygmaea, as var. glauca, by Simpson and Thomson, 1943)</i>	(U )	<i>O. magellanica</i>	(UMS)
	(UMS)	<i>Paraliebe diffusa</i> ssp. <i>diffusa</i>	(MS)
<i>M. sp. (iii) (M. australis agg.) (As yellow)</i>	(U )	<i>P. hookeriana</i> s.s.	(U )
<i>M. sp. (iv) (unnamed; aff. M. pygmaea)</i>	(U )	<i>P. spethulata</i>	(U )
<i>Myriophyllum pedunculatum</i> ssp. <i>novae-zealandicum</i>	(UMS)	<i>Parietaria debilis</i>	( S )
<i>M. triphyllum</i>	(UMS)		
<i>Neopaxia sp. (i) (Montia calycina) (incl. Claytonia australasica var. biflora)</i>	(U )	<i>Phyllachne colensoi</i> var. <i>colensoi</i>	(U )
<i>N. sp. (ii) (N. australasica agg.) (petals subacute; seeds dark red-brown, slightly longer than wide)</i>	(U )	<i>Plantago novae-zealandiae</i>	(U )
<i>Nertera balfouriana</i>	(UM )	<i>P. raoulii</i>	(UMS)
<i>N. ciliata</i>	(UMS)	<i>P. triandra</i> s.s.	(UMS)
<i>N. depressa</i> (incl. <i>N. cunninghamii</i> )	(MS)	<i>P. uniflora</i>	(U )
<i>N. scapanioides</i>	( S )	<i>P. raoulii</i> x <i>P. triandra</i>	(U )
		<i>Potentilla ausernoides</i>	(UMS)
		<i>Pratia angulata</i> agg.	(UMS)
		<i>Psychotripha novae-zealandiae</i>	(U )
		<i>Ranunculus amphitrichos</i>	(MS)
		<i>R. cheesemanii</i> var. ( <i>R. carsei</i> )	(U )
		<i>R. glabri folius</i>	(UMS)
		<i>R. membranifolius</i>	(UM )

- R. multiscapus (MS)
- R. nivicola (UM)
- R. recens var. (illustrated by Ogle 1978, p. 51) (U)
- R. reflexus (UMS)
- R. royi (UM)
- R. simulans (UM)

- Wahlenbergia albomarginata (UMS)
- var. pygmaea
- W. rupestris (MS)

R. sp. (unnamed; included in R. lappaceus, as var. macrophyllus, by Kirk 1899) (UMS)

No. of species: 663.

Records not accepted

- Rumex flexuosus (MS)
- Scandia sp. (S. rosifolia agg.) (UMS)
- (flts ovate-lanceolate)
- Schizanthus colensoi (UMS)
- S. nitens (UM)
- S. trifoliolatum (MS)
- S. sp. (unnamed) (U)
- Scleranthus biflorus (MS)
- S. uniflorus (UMS)
- Selliera microphylla (UMS)
- Stackhousia minima (UMS)
- Stellaria decurvens (incl. S. parviflora) (UMS)
- S. gracilentata (UM)
- Urtica incisa (UMS)
- Utricularia novae-zelandiae (UMS)
- Viola cunninghamii (UMS)
- V. filicaulis (UMS)
- V. lyallii (S)

- Anaphalis trinervis [Kirk 1899, as Gnaphalium lyallii, from "Moahonga" (sic!)] = A. sp. (a) (unnamed) (?)
- A. t. (Choeseman 1925, as G. lyallii) = A. sp. (a) (unnamed) (?)
- Hierochloa cuprea (Zotov 1973)
- Pseudopanax sp. (Wardle 1968, as P. colensoi var. ternatus?) = P. colensoi
- Coriaria sarmentosa (Elder 1962) = C. arborea x C. kingiana and/or C. pteridoides
- Jovellana repens (Colenso 1884) = J. sinclairii?
- Ranunculus verticillatus (Colenso 1884, as R. geraniifolius) = R. nivicola
- Coprosma parviflora (Elder 1962) = C. sp. (i)
- Dracophyllum uniflorum (Oliver 1952)
- Chionochoa flavescens (Elder 1948, as Daultonia flavescens) = C. pallens
- C. rigida (Elder 1948, as Daultonia rigida) = C. tubra
- Aciphylla squarrosa (Oliver 1956) = A. sp. (unnamed)

SUPPLEMENT

(Jan. 1988)

Adventive plants in upper Moawhango catchment

(unc) - uncommon

TREES AND SHRUBS

*Calluna vulgaris* (unc)  
*Pinus contorta*  
*Salix cinerea* (seedling) (unc)

GRASSES

*Agrostis capillaris*  
*Aira caryophylla*  
*Anthoxanthum odoratum*  
*Festuca nigrescens*  
*F. tenuifolia* (unc)  
*Holcus lanatus*  
*Poa annua* (unc)  
*P. pratensis*  
*Vulpia bromoides* (unc)

SEDGES

*Carex ovalis* (unc)

RUSHES

*Juncus articulatus*  
*J. effusus*

COMPOSITE HERBS

*Cirsium arvense* (unc)  
*C. vulgare* (unc)  
*Gnaphalium coarctatum* (unc)  
*G. sp.* (unc)  
*Hieracium pilosella*  
*Hypochoeris radicata*  
*Senecio jacobaea*  
*S. sylvaticus* (unc)  
*Taraxacum officinale* s.l.

DICOT HERBS OTHER THAN  
COMPOSITES

*Acaena novae-zelandiae* (unc)  
*Cerastium fontanum* ssp.  
*vulgare*  
*Linum catharticum*  
*Prunella vulgaris* (unc)  
*Rumex acetosella*  
*Sagina procumbens*  
*Trifolium dubium*  
*T. repens*

No. of species: 32.

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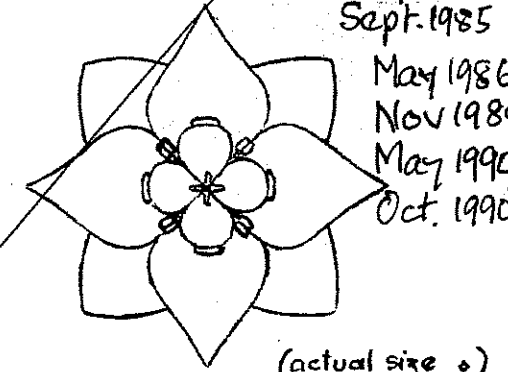
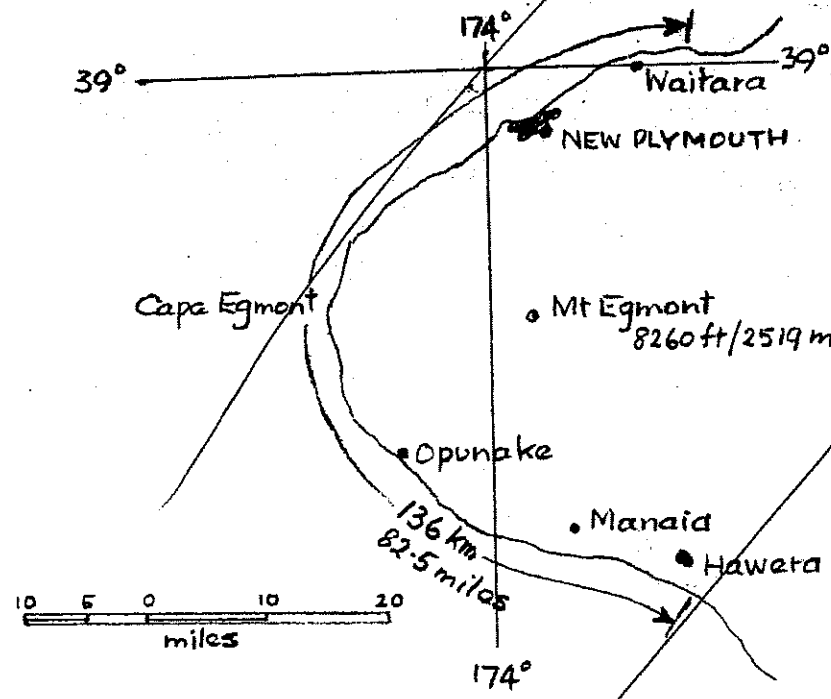
VASCULAR PLANTS ON THE WESTERN TARANAKI COAST  
BETWEEN WAITARA AND HAWERA

A.P. Druce, Botany Division, D.S.I.R., December 1972

(revised July 1974, July 1976, May 1977, Nov 1977,

(Based on observations 1964-1973)

- March 1978
- May 1979
- March 1980
- June 1980
- April 1982
- July 1985
- Sept. 1985
- May 1986
- Nov 1989
- May 1990
- Oct. 1990



Flower of *Crassula manaia*

(actual size ◦)

Notes on distribution of plants:

- *Limosella* sp. is known only from the western Taranaki coast
- The western Taranaki coast is the only North Island locality for *Anaphalis tetanervis*, *Ranunculus racemos* var., *Hebe elliptica* var. *elliptica* and *Oreomyrrhis* sp.
- The following reach their southern limit on the western Taranaki coast: *Vitex lucens*, *Corckia cotoneaster* var., *Juncus usitatus*, *Pittosporum crassifolium* var. *crassifolium*, *Scandia* sp.