

INDIGENOUS PSILOPSIDS, LYCOPODS, QUILLWORTS, FERNS, GYMNOSPERMS, & FLOWERING PLANTS

OF

## THE MOUNTAINS OF INLAND OTAGO AND N SOUTHLAND

Tony Druce, Neill Simpson, Brian Rance

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With assistance in the field from Helen Druce,

Barbara Simpson, Geoff Rogers, Shannel Courtney,

Susan Timmins, Chris Rance, Shirley Smith, John Whitehead,

Sue Bennett, and members of the Wellington Botanical Society  
(† deceased Nov. 1992)

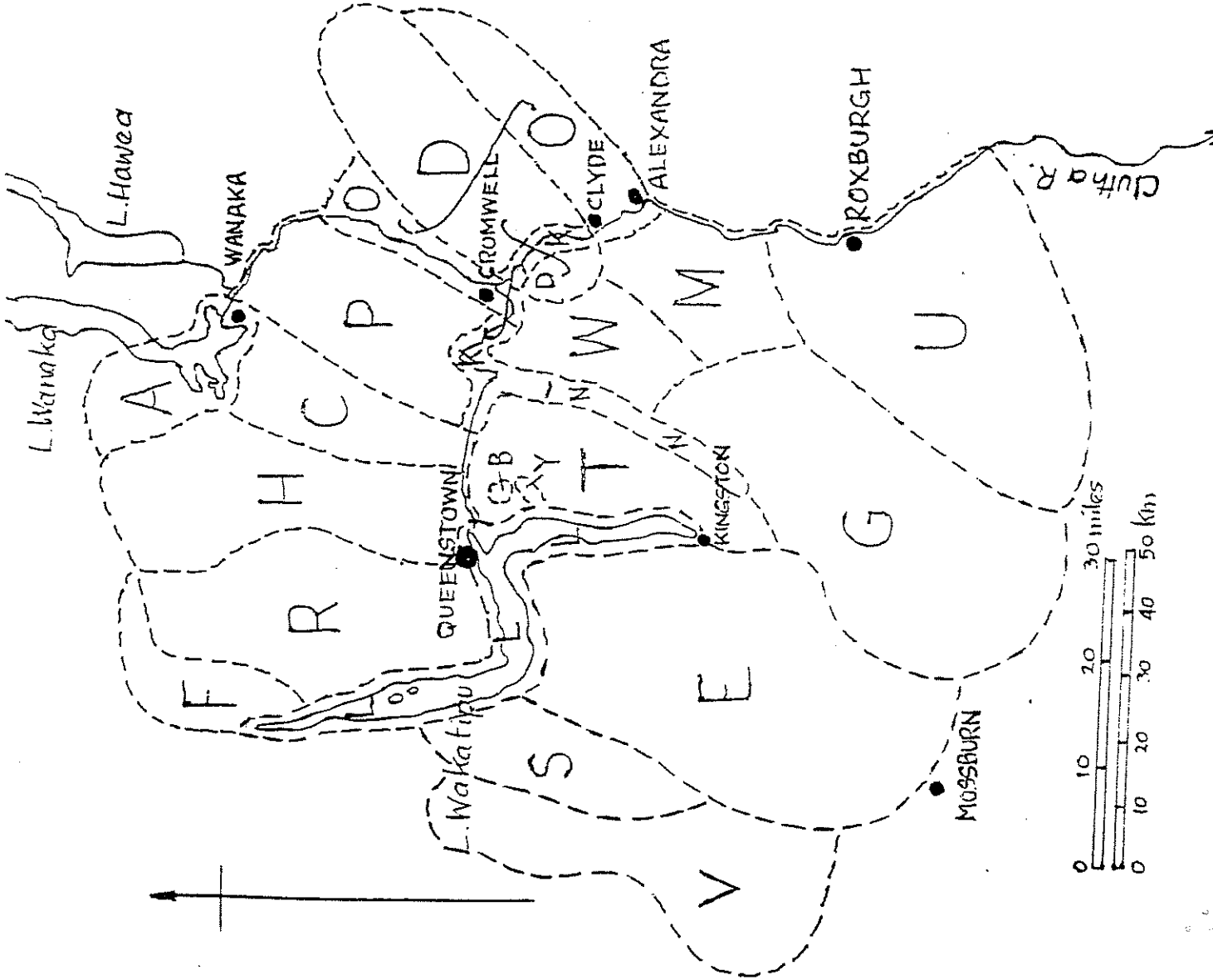
Based on field trips, totalling ninety-nine days, March 1985, March 1986,  
February-March 1987, February-March 1988, March 1989, March 1990,

March 1991, December 1991-January 1992, February 1992, April 1992, October 1992,

February-March 1993; and on extended observations by N.S.

Trees and shrubs	4	Sedges	25
Lianes and related trailing plants	14	Rushes and allied plants	30
Psilopsids, Lycopods, and quillworts	15	Monocot herbs other than orchids, grasses, sedges, rushes-related plants	31
Ferns	15	Composite herbs	32
Orchids	18		43

- L- Lake Wakatipu area
- K- Kawarau and Cromwell Gorges
- E- Eyre Mountains
- S- Thomson Mountains
- V- Livingstone Mountains
- F- Forbes Mountains
- R- Richardson Mountains
- H- Hattis Mountains
- A- Mt Alta - Lake Wanaka area
- C- Crown Range
- B- Rastus Burn, The Remarkables
- Y- Wye Valley, The Remarkables
- T- Hector Mountains (includes Bandy)
- N- Nevis Valley
- G- Garvie Mountains
- W- Old Woman and Carrick Ranges
- U- Umbrella Mountains
- M- Old Man Range
- P- Pisa Range
- D- Dunstan and Cairnmuir Mountains
- O- Clutha and Manuherikia lowlands



## Notes on the list

for indigenous plants  
 If the name used is different from that in the standard floras (the previous name is added in square brackets). The accepted standard floras are Allan (1961) (except for ferns and allied plants), Moore & Edgar (1970), Cheeseman (1925) (grasses only), and Brownsey and Smith-Dodsworth (1989) (ferns and allied plants).

Both "variety" ("var.") and "subspecies" ("ssp.") are used in the sense of a "geographically separated and morphologically distinct part of a species" (Gould 1978, p. 233; see also Lloyd 1972). It follows that plants at present described as varieties or subspecies that are known to occur in the same area (i.e., occur syntactically) and remain distinct (i.e. do not hybridise or do so only to a limited extent) are here regarded as species ("species" and "semispecies" in the sense of Grant 1963, p. 345). In deciding whether to use "variety" or "subspecies", "subspecies" is preferred if such has been used in a recent taxonomic publication (e.g. Apium, Calmisia, Chionochoa, Coprosma, Curtisia, Paea, Ranunculus, Sanceoia); otherwise the traditional "variety" is used.

Voucher specimens of the plants listed are deposited in Landcare Research herbarium, Lincoln (CHR), but only specimens of unnamed taxa, forms, and undetermined plants are cited (see Appendix).

Druce et al. (1987), Druce and Williams (1989), Williams (1989) and Rogers (1989) use lower-case letters as signatures for unnamed taxa, e.g. Melicytus sp.(a), Aristolicia fruticosa var.(a). This system is continued here. To avoid any confusion the same taxon is given the same letter throughout, e.g. Coprosma sp.(a), but different taxa are given different letters, e.g. Hebe sp.(a) and H. sp.(b) in Druce et al. (1987), Hebe sp.(c), H. sp.(d) in Druce and Williams (1989).

# Abbreviations and signs

- aff. affinities with
- agg. aggregate, comprising more than one species
- avct. of authors
- c. about, approximately
- cf. compare with
- atal. and others
- f. form (used for plants of uncertain status)
- fl., fls flower, flowers
- fr., frs fruit, fruits
- incl. include (in concept of taxon)
- infl. inflorescence
- lf, lvs leaf, leaves
- lfl, lfls leaflet, leaflets
- loc. locality
- pers. comm. personal communication
- s.l. sensu lato, in a broad sense
- sp., spp. species (singular), species (plural)
- s.s. sensu stricto, in a narrow sense, excluding species other than the original in an aggregate

ssp., ssp. subspecies (singular), subspecies (plural)  
unc. uncommon or local  
var., vars. variety, varieties  
X hybrid between species  
⇌ grading between varieties or subspecies

/ links two species not separately determined

? determination doubtful

No. of species: 959 (excluding *Acaena novae-zelandiae* and *Pelargonium inodorum* which are considered to be adventive)

No. of additional subspecies and varieties: 7

No. of forms (plants of uncertain status) and undetermined plants: c. 20

GYNOSPERM TREES AND SHRUBS

*Dacrycarpus dactyloides* [*Dacrycarpus dactyloides*] L  
*Holocarpus bidwillii* [*Dacrydium bidwillii*]  
*Lepidothamnus laxifolius* [*Dacrydium laxifolium*]  
*Phyllocladus alpinus* s.s.  
*P. sp. (a)* (aff. *P. alpinus*; "lowland" ecotype cf. Wardle 1969) [*P. alpinus* in part]  
*P. alpinus* x *P. sp. (a)*

E S V R H G U P D  
 Y  
 K E S V F R H T G W U M P D  
 F

*Podocarpus hallii*

*P. nivalis*

*P. totara* s.s.

*P. hallii* x *P. nivalis*

*Prumnopitys taxifolia* [*Podocarpus spicatus*]

L K E S V F R H A Y T G W U P D  
 E S V F R H A G W U P D  
 F  
 L E S V F R H Y T G  
 L E A G

MONOCOTYLEDONOUS TREES AND SHRUBS

*Cordyline australis*

L E F R H A Y T W U M P D

DICOTYLEDONOUS TREES AND SHRUBS

*Alepis flavida* [*Elytranthus flavida*]

*Archamia traversii* s.l. (incl. *A. traversii* var. *australis*)

L E S V R A Y T G U

*Aristotelia fruticosa* var. *rigidula*

*A. serrata*

*A. fruticosa* x *A. serrata*

*Brachyglottis cassinioides* [*Senecio. cassinioides*]

*B. revoluta* [*Senecio. revolutus*]

*B. rotundifolia* var. (s) (incl. *B. buchananii* and *B. cockaynei*) [*Senecio. kamuffii*]

*B. cassinioides* x *B. revoluta* (Mack 1989)

L K E S V F R H A B Y T G W U M P D  
 L E S F R H A Y T G U  
 E F R H A Y T G U  
 E S V F R H A Y T G U  
 E S V R H Y T G U  
 E S V F R H A Y T G U

<i>Carmichaelia arborea</i> var. <i>arborea</i> s.l. (incl. <i>C. grandiflora</i> )	E	R H	G
<i>C. compacta</i> var. <i>compacta</i>	K		G W U M P D
<i>C. compacta</i> var. <i>prostrata</i>			O
<i>C. enysii</i> var. <i>enysii</i>	V		O
<i>C. kirkii</i> var. <i>kirkii</i>	E	C	M P D
<i>C. montroi</i> s.l. (incl. <i>C. montroi</i> var. <i>longecarinata</i> )		T	W P D
<i>C. patriei</i> s.l. (incl. <i>C. patriei</i> var. <i>minor</i> , <i>C. ramosa</i> , and <i>C. virgata</i> )	L K E S V	F R H A C B Y T N G	W U M P D O
<i>C. uniflora</i> s.l. (incl. <i>C. suteri</i> ) (P. Heenan pers. comm.)	L	S V F R H A	Y T G U
<i>Carpodetus serratus</i>	E		U
<i>Cassinia leptophylla</i> var. <i>leptophylla</i> s.l. (incl. <i>C. fulvida</i> var. <i>fulvida</i> , <i>C. leptophylla</i> var. <i>spathulata</i> , and <i>C. rotifolia</i> )	E S		G M D
<i>C. vauvilliersii</i> s.l. (incl. <i>C. fulvida</i> var. <i>montana</i> and <i>C. vauvilliersii</i> vars. <i>albida</i> , <i>canescens</i> , <i>pallida</i> , <i>serpentina</i> , and <i>vauvilliersii</i> )	L	E S V F R H A C B Y T N G	W U M P D
<i>C. leptophylla</i> X <i>C. vauvilliersii</i>	E S		
<i>Coprosma acerosa</i> ssp. (g) (described as <i>C. acerosa</i> f. <i>brunnea</i> [ <i>C. brunnea</i> in part ])	E S V	B T	G D
<i>C. areolata</i>			
<i>C. atropurpurea</i> [ <i>C. patriei</i> var. <i>atropurpurea</i> ]	E S V	F R H A C B Y T N G	G W U M P D
<i>C. chaeamanii</i> s.s.	E S V	F R H A C B Y T	G U M P D
<i>C. ciliata</i> ssp. (a) (lvs of adult plants glabrous or nearly so)	E S V	F R H A B Y T N G	G W U M P D
<i>C. colensoi</i> s.s.	E		U
<i>C. crassifolia</i>	E	R	Y T G U P D O
<i>C. cuneata</i> [ <i>C. cuneata</i> and <i>C. astoni</i> ]	L E S V	F R A	G U
<i>C. depressa</i>	E S V	F	G U

<i>C. foetidissima</i>	L	E	FR		G	U	
<i>C. intertexta</i>	K			C			P O
<i>C. linariifolia</i>	L	ESV	FR A		YT	G	U PD
<i>C. lucida</i> ss.	L	E	FRHA		YT		U
<i>C. niphophila</i> / <i>C. perpusilla</i> ssp. <i>perpusilla</i>	K	ESV	ERHAC	BYTING	GW	U	MPPD
<i>C. niphophila</i> [ <i>C. pumila</i> in part]	E		FHAC	B	T	G	MPPD
<i>C. perpusilla</i> ssp. <i>perpusilla</i> [ <i>C. pumila</i> in part]	K	ESV	FRHAC	B	TNG	U	UMP
<i>C. patriae</i>	K	ESV	FRHAC		TNG	W	PDD
<i>C. propinqua</i> ssp. <i>propinqua</i>	L	KE	SVFRHAC	BYT	GW	U	MPPD
<i>C. pseudocuneata</i> ss.	E	SV	FRH		YT	G	U P
<i>C. rhamnoides</i> s.l. (incl. <i>C. polymorpha</i> )	L	ESV	FR			G	U
<i>C. rigida</i>	L	KE	SVR			GW	UMP
<i>C. rotundifolia</i>	L	E	R	A		G	U
<i>C. rubra</i>							O
<i>C. rugosa</i> ssp. <i>rugosa</i>	L	KE	SVFRHAC	BYT	GW	U	PD
<i>C. setulata</i>	E	V	FRH	C		GW	U
<i>C. vitescens</i>	L	K		A		W	PDD
<i>C. sp.(c)</i> (described as <i>C. parviflora</i> var. <i>dumosa</i> by Cheeseman 1906; non <i>C. parviflora</i> var. <i>dumosa</i> Allan 1961) [ <i>C. parviflora</i> in part]	L	KE	SVFRHAC	BYT	GW	U	MPPD
<i>C. sp.(c)</i> (aff. <i>C. intertexta</i> ; prostrate or lianoid shrubs)	E	SV					U
<i>C. sp.(c)</i> (aff. <i>C. pseudocuneata</i> ; low-growing shrubs with small, thick, arcuate lvs) [ <i>C. pseudocuneata</i> in part]	E	SV	FRH	A	YT	G	U
<i>C. cheesemani</i> X <i>C. ciliata</i>	E	SV	R				
<i>C. patriae</i> X <i>C. rugosa</i>	S	V	R	H	A		



Corallosporium crassicaule var. crassicaule. H C Y T N W U M P D  
 C. crassicaule var. racemosum. E S V F R H A H A N G U  
 Coriaria angustissima L R H A H A Y T N G U P D  
 C. arborea. E S V F R H A H A Y T N G U P D O  
 C. plumosa. E S V F R H A H A Y T N G U P D  
 C. sarmentosa. L K E S V F R H A H A Y T N G U P D  
 C. plumosa X C. sarmentosa. L K E S V F R H A H A Y T N G U P D O  
 Cotokia cotoneaster var. cotoneaster. E S V F R H A H A Y T N G U P D  
 Cyathodes dealbata s.l. (incl. C. punila) [C. punila] E S V F R H A H A Y T N G U P D  
 C. empetrifolia. E S V F R H A H A Y T N G U P D  
 C. sp.(c) (C. juniperina agg.; lvs small, usually < 1cm L E F R A P  
 41cm x < 1mm)

C. sp.(b) (C. juniperina agg.; lvs usually not < 1cm E  
 x 1mm, up to 1.5cm x 2.5mm) L K E S V F R H A C B Y T N G U M P D O  
 Discaria tumatou. L K E S V F R H A C B Y T N G U M P D O  
 Dracophyllum longifolium var. longifolium. L E S V F R H A Y T G U P D  
 D. manziesii V F R H A C B Y T N G U M P D  
 D. muscoides E F R H A C B Y T N G U M P D  
 D. politum. E F R H A C B Y T N G U M P D  
 D. prostratum. E S V F R H A C B Y T N G U M  
 D. uniflorum s.l. (incl. D. uniflorum var. frondosum) L E S V F R H A C B Y T N G U M P D  
 D. sp.(e) (D. oliveri auct. Southland, non D. oliveri V

Du Roi 3; "The southern form" of Oliver 1952)

D. longifolium X D. uniflorum		RH	YT	G
D. muscoides X D. politum	F			
D. muscoides X D. uniflorum	F			D
D. praeum X D. uniflorum	E		TN	
D. prostratum X D. uniflorum	E	V	TN	
Elaeocarpus hookerianus	L	ESV		G U
Fuchsia excorticata	L	ESVFRHA	YT	G U P
F. excorticata X F. perseandans		R		G U
Gaultheria antipoda	L	ESVFRHA	BYT	G W U P D
G. crassa	L	ESVFRHAC	BYTN	G W U M P D
G. depressa s.s.	F			
G. macrostigma [Pernettya macrostigma]	E	SV		G U D
G. nubicola [Pernettya nana in part]	E	SVFRHAC	BYT	G W U M P D
G. parvula [Pernettya nana in part]	K	ESVFRHAC	BYTN	G W M P D
G. sp. (1) (described as G. depressa var. novae- Zelandiae by Franklin 1962) [G. depressa in part]	K	ESVFRHAC	BYTN	G W U M P D
G. crassa X G. macrostigma	S	V		
G. crassa X G. nubicola		R		G U
G. crassa X G. sp. (1)	E	FR	AC	
G. macrostigma X G. sp. (1)	S	V		
G. nubicola X G. sp. (1)	S			
G. parvula X G. sp. (1)		RHA		

<i>Grisebina littoralis</i>	L	E S	F R H A	Y T	G	U	P D
<i>Hebe anomala</i> [ <i>H. odorata</i> (in part)]		E S	V F R H	Y T N G	G	U M	
<i>H. biggarii</i>		E	S V	R H A C B Y T	G	G W U M P D	
<i>H. buchananii</i>		E	F				
<i>H. cockayneana</i> var. <i>cockayneana</i>		E	R H	Y T		G	U
<i>H. cupressoides</i>		E	S	R			
<i>H. dilatata</i> s.l. (incl. <i>H. tetawli</i> )		E	V	A C B Y T	G	G	U M P D
<i>H. epacridea</i>							
<i>H. haastii</i> var. <i>humilis</i>		E	S	V F R H A C	Y T	G	U
<i>H. lycopodioides</i> s.l. (incl. <i>H. lycopodioides</i> var. <i>patula</i> and <i>H. poppelwellii</i> )		E	S	V F R H A C	B Y T	G	M P D
<i>H. odora</i> s.s.		E	S	V F R H A C	Y T	G	U M
<i>H. pauciramosa</i>		E	S	V F R H A C	B Y T	G	M P D
<i>H. pathei</i> s.s.		E		R H		N	
<i>H. pimeleoides</i> s.s. (incl. <i>H. pimeleoides</i> var. <i>minor</i> )		E	S	V F R H A C	Y T N G	U	
<i>H. propinqua</i> var. <i>major</i>		K E	S V F R H A C	B Y T N G	G	U M P D	
<i>H. rakaiensis</i> / <i>H. subalpina</i>		K E	S V F R H A C	B Y T N		M P D	
<i>H. rakaiensis</i>		K E	S V F R H				
<i>H. subalpina</i> var. <i>subalpina</i>		L K E	S V F R H A C	B Y T	G W U	P D O	
<i>H. salicifolia</i> var. <i>salicifolia</i>		E	S	V F R H A C	Y T	G	
<i>H. salicornioides</i> var. (a) (incl. <i>H. annulata</i> )		E	S	V F R H A C	B Y T N G	G W U M P D	
<i>H. tetragona</i> var. (b) (incl. <i>H. hectorii</i> and <i>H. subulata</i> )		E	S	V F R H A C	B Y T N G	G W U M P D	
<i>H. tetragona</i> var. (c) (incl. <i>H. laingii</i> )		E					

H. sp. (h) (described as <i>H. pimaleoides</i> var. <i>rup-estris</i> by Cockayne and Allan, 1926)	K E					W U M P D O
<i>H. buchananii</i> X <i>H. takaheensis</i>			A			
<i>H. odora</i> X <i>H. propinqua</i> (Dickinson 1988)						U
<i>H. propinqua</i> X <i>H. taffogona</i>	E				T	
<i>H. salicifolia</i> X <i>H. sp. (h)</i>	K					W P
<i>Helichthysum aggregatum</i> var. <i>aggregatum</i> [ <i>H. glometatum</i> ]	L	E S V	R A		Y T	G W U M P D
<i>H. intermedium</i> var. <i>intermedium</i> [ <i>H. selago</i> ]	K	E S V	R H	C B	Y T	G W U P D
<i>Hobaria lyallii</i> s.l. (incl. <i>H. glabrata</i> )	L	K E S V	F R H A	B Y T	N G	W U M P
<i>H. populnae</i> var. <i>lanceolata</i> (only 1 plant seen) [ <i>H. sexstylosa</i> ]					Y T	
<i>Ileostylus micranthus</i> [ <i>Loranthus micranthus</i> ]	L	E	R		Y T	G
<i>Koithalsella clavata</i> [ <i>K. lindsayi</i> var. <i>clavata</i> ]	L	K	S V			W M
<i>K. lindsayi</i>	L					A
<i>K. salicethioides</i>						
<i>Kunzea ericoides</i> agg. [ <i>Leptospermum ericoides</i> ]	L	K E		H A C		P
<i>Leptospermum scoparium</i>	L	K E S	V F R H A			W U M P D O
<i>Leucopogon fraseri</i> agg. [ <i>Cyathodes fraseri</i> ]	L	K E S	V F R H A C B	Y T	N G	W U M P D O
<i>L. fraseri</i> s.s.	L	K E	V F R H A C B	Y T	N G	W U M P D
<i>L. sp. (a)</i> (described as <i>L. fraseri</i> var. <i>muscosus</i> by Simpson 1945) [ <i>Cyathodes fraseri</i> var. <i>muscosa</i> ]	L	K E S	V R H		N	M O
<i>L. suaveolens</i> s.l. (incl. <i>L. colensoi</i> ) [ <i>Cyathodes colensoi</i> ]	L	K E S V	R H A C B	T N G		W U M P D O
<i>Lophomyrtus obscurata</i>	L					
<i>Melicope simplex</i>	L	E		A	T G	U M P D O

*Melectos alpinus* agg. [Hymenanthera alpina] L K E S V F R H A C B Y T N G W U M P D O  
*M. alpinus* s.s. E R Y T G U

*M. sp. (f)* (shrubs taller than in *M. alpinus*, up to 2.4m; spiny shoots point in all directions with an 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°; erect trianoid shoots numerous at all stages of growth, whereas they are present only in large plants in *M. alpinus*; lvs broader than in *M. alpinus*, lobed in shaded young plants; young plants erect, not decumbent as in *M. alpinus*)

*M. lanceolatus* s.l. (incl. *M. lanceolatus* variation) L E R A G  
*M. ramiflorus* ssp. *ramiflorus* L E R A

*M. sp. (a)* (low-growing hemispherical shrubs; branches up to 40cm long, often rooting; lvs linear-oblong; fr white) E

*M. sp. (b)* (low-growing rhizomatous shrubs with recurved spinous branches and narrowly linear-lanceolate lvs; fr white) S

*M. sp. (d)* (dioecious shrubs or small trees up to 5m; stems erect, tortuous, knobby; branchlets slender, curved, flexuose, interlaced, mostly leafless; seedling lvs narrow, incised or lobed, deflexed) A



O. sp. (b) (aff. *O. virgata*); semi-divaricating shrubs or small trees, up to 7m tall and 45cm basal diam; erect epicotemic shoots numerous on spreading branches; juvenile plants semi-deciduous, adults evergreen; branchlets 4-angled, pilose; older stems rounded; short shoots 2-3-leaved; lvs shortly petioled; lamina elliptic to broadly elliptic-oblong, 6x3 mm up to 16x6 mm, mostly c. 12x5 mm, semi-glossy; lower surface clad in white tomentum; capitula on short pedicels, 2-3 mm long)

<i>O. avicenniifolia</i> X <i>O. cymbifolia</i>		R	A	B	I	
<i>O. avicenniifolia</i> X <i>O. moschata</i>	E S	R				
<i>O. moschata</i> X <i>O. humulatifolia</i>	E	R				
<i>Pennantia corymbosa</i>	L	R	A			
<i>Pentachondra pumila</i>	E S V E R H A C	T	N	G	U	M P D
<i>Peraxilla colensoi</i> [ <i>Elytranthe colensoi</i> ]	E				G	U
<i>P. tetrapetala</i> [ <i>Elytranthe tetrapetala</i> ]	E	F			G	U
<i>Plinlea aridula</i> var. <i>aridula</i>	K	R H	C B Y T N	W	M	P D
<i>P. microphylla</i> [ <i>P. prostrata</i> in part]	S V					
<i>P. oreophylla</i> [ <i>P. pseudolyallii</i> in part]	L K E S V F R H A C B Y T N C	W	U	M	P	D
<i>P. poppelwalleri</i>	E	V	F	R	H	
<i>P. prostrata</i>	K E	V	F	R	H	
<i>P. pulvinatis</i>						
<i>P. sulzlii</i>	E	F	R	H	A	
<i>P. traversii</i>	S V					
<i>P. sp.</i> (dwarf shrub; stems short, densely hairy; lvs densely hairy below, glabrous above with stomata plainly visible, penicillate)						

G U

<i>Pittosporum divaricatum</i> [ <i>P. divaricatum</i> and <i>P. lineare</i> ]	L	R		
<i>P. augenioides</i>	L	R		
<i>P. tenuifolium</i> ssp. <i>tenuifolium</i>	L	ES	FRHA	YT GU
<i>Pseudopanax anomalus</i> [ <i>Neopanax anomalus</i> ]	L	SV	R	G
<i>P. crassifolius</i> s.s.	L	ES	FRHA	YT GU
<i>P. crassifolius</i> f. (a) (vs at all stages much wider: deflexed juvenile vs 2.5-4cm wide, adult vs 3-5cm wide) (abundant on Pigeon I, L Wakatipu)	L			
<i>P. edgerleyi</i> (Poppelwell 1915, as <i>Nothopanax edgerleyi</i> )	L		A	GU
<i>P. ferox</i>	L			
<i>P. simplex</i> s.l. (incl. <i>P. simplex</i> var. <i>sinclairii</i> ) [ <i>Neopanax simplex</i> ]	L	E	FR	GU
<i>P. sp.</i> (a) (described as <i>P. colensoi</i> var. <i>tenuatum</i> by Wardle 1968) [ <i>Neopanax colensoi</i> in part]	L	ES	FRHA	YT GU
<i>Pseudowintera colorata</i>	L	E	F	A GU
<i>Schefflera digitata</i>	L		FR	A
<i>Solanum laciniatum</i> (Johnson 1983, Brumley <sup>et al.</sup> 1986)	L			U
<i>Sophora microphylla</i>	L	KE	HA	BYT GWUMPD
<i>Touretidium parvifolium</i> s.l. (incl. <i>T. parvifolium</i> var. <i>luxurians</i> )	L		A	U
<i>Urtica ferox</i>	K			T
<i>Waimanania racemosa</i> var. <i>racemosa</i>			F	P



DICOTYLEDONOUS LIANES AND RELATED

TRAILING PLANTS

*Calystegia tuguriorum* . . . . . T . . . . . G . . . . . U . . . . . P . . . . .  
*Clematis foetida* . . . . . R . . . . . A . . . . . T . . . . . T . . . . . G . . . . . U . . . . . P . . . . .  
*C. matata* . . . . . R . . . . . A . . . . . T . . . . . T . . . . . G . . . . . U . . . . . P . . . . .  
*C. paniculata* . . . . . R . . . . . H . . . . . A . . . . . B . . . . . Y . . . . . T . . . . . G . . . . . U . . . . . M . . . . . P . . . . . D . . . . .  
*C. quadrifida* . . . . . F . . . . . R . . . . . H . . . . . A . . . . . T . . . . . T . . . . . G . . . . . W . . . . . U . . . . . P . . . . .  
*Convolvulus fracosaxosa* . . . . . K . . . . . E . . . . . A . . . . . T . . . . . T . . . . . T . . . . . G . . . . . W . . . . . U . . . . . P . . . . .  
*C. verecundus* agg. . . . . K . . . . . E . . . . . A . . . . . T . . . . . T . . . . . T . . . . . W . . . . . U . . . . . P . . . . .  
*C. verecundus* s.s. . . . . K . . . . . E . . . . . A . . . . . T . . . . . T . . . . . T . . . . . W . . . . . U . . . . . P . . . . .  
*C. sp. (a)* (described as *C. verecundus* ssp. *waitaha*) by Sykes 1987 . . . . . L . . . . . E . . . . . A . . . . . T . . . . . T . . . . . T . . . . . W . . . . . U . . . . . P . . . . .

Sykes 1987

*Fuchsia petscandens* . . . . . L . . . . . K . . . . . E . . . . . S . . . . . F . . . . . R . . . . . H . . . . . A . . . . . C . . . . . T . . . . . G . . . . . U . . . . . P . . . . .  
*Muehlenbeckia australis* . . . . . L . . . . . K . . . . . E . . . . . S . . . . . V . . . . . F . . . . . R . . . . . H . . . . . A . . . . . C . . . . . Y . . . . . T . . . . . T . . . . . G . . . . . W . . . . . U . . . . . P . . . . .  
*M. axillaris* . . . . . L . . . . . K . . . . . E . . . . . S . . . . . V . . . . . F . . . . . R . . . . . H . . . . . A . . . . . C . . . . . B . . . . . Y . . . . . T . . . . . N . . . . . G . . . . . U . . . . . M . . . . . P . . . . .  
*M. complexa* agg. . . . . L . . . . . K . . . . . E . . . . . S . . . . . V . . . . . F . . . . . R . . . . . H . . . . . A . . . . . C . . . . . B . . . . . Y . . . . . T . . . . . N . . . . . G . . . . . U . . . . . M . . . . .  
*M. aphedroides* . . . . . L . . . . . K . . . . . E . . . . . S . . . . . V . . . . . F . . . . . R . . . . . H . . . . . A . . . . . C . . . . . B . . . . . Y . . . . . T . . . . . N . . . . . G . . . . . W . . . . . U . . . . . M . . . . .  
*M. australis* X *M. complexa* . . . . . L . . . . . K . . . . . E . . . . . S . . . . . V . . . . . F . . . . . R . . . . . H . . . . . A . . . . . C . . . . . B . . . . . Y . . . . . T . . . . . N . . . . . G . . . . . W . . . . . U . . . . . M . . . . .  
*M. axillaris* X *M. ephedroides* . . . . . L . . . . . K . . . . . E . . . . . S . . . . . V . . . . . F . . . . . R . . . . . H . . . . . A . . . . . C . . . . . B . . . . . Y . . . . . T . . . . . N . . . . . G . . . . . W . . . . . U . . . . . M . . . . .  
*Parsonsia capsulatis* . . . . . L . . . . . K . . . . . E . . . . . S . . . . . F . . . . . R . . . . . H . . . . . A . . . . . T . . . . . Y . . . . . T . . . . . G . . . . . W . . . . . U . . . . . P . . . . .  
*P. heterophylla* . . . . . L . . . . . K . . . . . E . . . . . S . . . . . F . . . . . R . . . . . H . . . . . A . . . . . T . . . . . Y . . . . . T . . . . . G . . . . . W . . . . . U . . . . . P . . . . .  
*Rubus cissoides* var. (a) ("form c" of Allan 1961; Iflts broader than in var. *cissoides*) . . . . . L . . . . . K . . . . . E . . . . . S . . . . . F . . . . . R . . . . . T . . . . . Y . . . . . T . . . . . G . . . . . U . . . . .  
*R. schmidlioides* var. *subpauperatus* . . . . . L . . . . . K . . . . . E . . . . . S . . . . . V . . . . . F . . . . . R . . . . . H . . . . . A . . . . . B . . . . . Y . . . . . T . . . . . G . . . . . W . . . . . U . . . . . M . . . . .  
*R. cissoides* X *R. schmidlioides* . . . . . L . . . . . K . . . . . E . . . . . S . . . . . V . . . . . F . . . . . R . . . . . H . . . . . A . . . . . B . . . . . Y . . . . . T . . . . . G . . . . . W . . . . . U . . . . . M . . . . .



<i>B. fluviatile</i> agg.	L	E S V F R H A		G	U	U	D
<i>B. membranaceum</i>	L		R	G	U	U	
<i>B. minus</i>	L			G	U	U	
<i>B. penna-matina</i>	L	K E S V F R H A C B Y T N G		W	U	M	P D Q
<i>B. procerum</i>	L	E F R		G	U	P	
<i>B. vulcanicum</i>	L	K E S V F R H A	Y T	G	W	U	M P D
<i>B. sp. (a)</i> (lowland sp.; lower pinnae reduced in length) [ <i>B. sp. 1</i> ]	L	E R		G			
<i>B. sp. (b)</i> (mountain sp.; lower pinnae not reduced in length; "The Donedin-Cass Variety" of Crookes 1963) [ <i>B. sp. 3</i> ]	L	E S V F R H A	T	G	U	P	
<i>B. precatum</i> X <i>B. sp. (a)</i>	L		R				
<i>Botrychium bifarium</i>							
<i>Cheilanthes humilis</i>	L	K E	F A B T	W	U	M	P D Q
<i>Ctenopteris heterophylla</i>	L	F R		U			D
<i>Cyathea colensoi</i>	L	E		G	U		
<i>C. smithii</i>		F					
<i>Cystopteris tasmanica</i>	L	K E S V F R H A	B Y T N G W U	P	D		
<i>Dicksonia squarrosa</i>	L	E					
<i>Gleichenia dicarpa</i>			R				
<i>Grammitis billardierei</i>	L	E S F R	Y	G	U	U	
<i>G. givenii</i>		E S					
<i>G. magellanica</i> ssp. <i>holkofageti</i>	L	E R H	Y T	G			
<i>G. patagonica</i>	L	E S V F R H A	Y T	G			D
<i>G. poeppigiana</i>	L	E S V F R H A C B Y T		G	W	U	M P D

G. sp. (c) (plants forming patches on rocks and banks in forest; rhizome short-creeping; stipe indistinct, winged to base; stipe hairs absent to sparse; lamina linear-oblongolate; lamina hairs absent to sparse; sori oblong, parallel to midrib)	L	R	YT
G. patagonica X G. poeppigiana (?)			YT
Histiopteris incisa	L K E	F	T N G W U M P D
Hymenophyllum bivalve	E		G U
H. demissum	E		
H. dilatatum	E		G
H. multifidum	E S V	F R H A	T G U
H. peltatum	E	F R	Y T U
H. pulcherrimum	S V		
H. sanguinolentum (Dickinson, 1988 and 1989; Mark et al. 1984)	E		G U
H. scabrum			
H. villosum	E S V	R	Y T G W U M P D
Hypolepis amurethachis		H	
H. ambigua	E	R	
H. millefolium	L K E	S V F R H A C B Y T N	G U G W U M P D O
H. rufo-barbata	L	E	R U
Leptopteris hymenophylloides			
L. superba		F	G U
Ophioglossum ciliaceum agg.	K E S	A C B	T N G W U M P D O
Paesia scabrotula		FR	

Pellaea caliduripium	L	K	E	A	T	W	M	P	D	D
P. rotundifolia	L	K	E	R	A	G	U			
Phymatosorus pustulatus [P. diversifolius]	L	K	E	F	R	H	A	Y	T	G
Pilularia novae-zelandiae	L	K	E	A						O
Pleuroscopus lutifolius	L	K	E	S	V	F	R	H	A	C
Polystichum cystostegia	L	K	E	S	V	F	R	H	A	C
P. richardii	L	K	E	F	R	H	A	B	Y	T
P. silvaticum	L	K	E	F	R	H	A	B	Y	T
P. vestitum	L	K	E	S	V	F	R	H	A	C
P. cystostegia X P. vestitum	L	K	E	S	V	F	R	H	A	C
P. richardii X P. vestitum	L	K	E	S	V	F	R	H	A	C
Platidium esulentum	L	K	E	S	V	F	R	H	A	C
Pyrosia eleagnifolia	L	K	E	F	H			Y	T	G
Rumohra adiantiformis	L	K	E	F						U
Stichetus cunninghamii	L	K	E	F						U
<b>MONOCOTYLEDONOUS HERBS</b>										
<b>ORCHIDS</b>										
Adenochilus gracilis	L	E	S	V	F	R				G
Aporostylis bifolia	L	E	S	V						G
Caladenia catenata (St George 1992) [C. carnea in part]	L	E	S	V						G
C. lyallii	L	E	S	V	R					G
Chiloglottis cernuta	L	K	E	F	R					G
Corybas macranthus	L	K	E	R	A	Y	T	G	W	U
C. orbiculatus (St George 1992, as C. "short tepals")	L	E	F	R	B					P
C. trilobus ss.	L	E	F	R						Y
Earina mucronata ss.	L	E	F	R						R

Gastrodia cunninghamii	L	E	FR		
G. minor (St George 1992)			R		
Lyperanthus antarcticus		S	V		U
Microtis oligantha	L	E	S	R	H
M. unifolia					M
Prasoplyllum colensoi	L	K	E	S	F
Pterostylis atrolata (Markt et al. 1989)		E	S	V	F
P. australis	L	E	FR		Y
P. banksii	L	E	R		G
P. tristis [P. hirtica]					U
P. venosa					M
P. sp.(a) (aff. P. cyenocephala) [P. cyenocephala]					U
P. sp.(c) (aff. P. montana)	L	E	R		M
Thelymitia cyanea [T. venosa]	L				G
T. formosa (St George 1992)					U
T. hatelii (Markt et al. 1989)		E	S	V	R
T. longifolia, agg.	L	E	S	V	H
T. pauciflora agg.	L	E	R	A	C
T. pulchella	L	E	R		T

**GRASSES**

Agrostis imbecilla [A. tenella]	L	E	S	V	F	R	H	A	C	B	Y	T	G		M
A. muelleriana [A. subulata in part.]		E	S	V						C	B	T	H	G	W
A. muscosa															U
A. pallascens		S	V						H	C	T	T	G	W	U
A. personata [A. parviflora]		E	S	V	F	R	A	C	Y	T	T	T	G	W	U
A. petriei	L	K	E	S	V	F	R	H	A	C	Y	T	N	G	W

A. sp. (b) (aff. <i>A. dyeri</i> but panicles not contracted) [ <i>A. dyeri</i> in part]	E	F	G	U
A. sp. (c) (plants forming glaucous or purplish green patches, up to 20cm diam, in bogs)				D
<i>Chionochloa conspicua</i> ssp. <i>conspicua</i> [Danthonia cunninghamii]	ES	VFRH	G	U
<i>C. crassiuscula</i> ssp. <i>torta</i> [Danthonia crassiuscula]	ES	VFR	T	G
<i>C. macra</i> [Danthonia raculi in part]	ES	V R H A C B	Y T N G	W U M P D
<i>C. oreophila</i> [Danthonia oreophila]	E	V F R H A	Y T	
<i>C. pallens</i> ssp. <i>cadens</i> [Danthonia raculi in part]	E	V F R H		
<i>C. rigida</i> ssp. <i>rigida</i> [Danthonia raculi in part]	KES	V F R H A C B	Y T N G	W U M P D
<i>C. rubra</i> ssp. <i>cuprea</i> [Danthonia raculi in part]	ES	V	T N G	W U M
<i>C. teretifolia</i> [Danthonia ovata in part]	V			
<i>C. virata</i> (Connors 1991)	V			
<i>C. crassiuscula</i> X <i>C. macra</i>				G
<i>C. crassiuscula</i> X <i>C. oreophila</i>		RH		
<i>C. crassiuscula</i> X <i>C. pallens</i>	F			
<i>C. macra</i> X <i>C. oreophila</i>		HA	Y T	
<i>C. macra</i> X <i>C. rigida</i>	E			G U
<i>C. macra</i> X <i>C. tubra</i>				U
<i>C. oreophila</i> X <i>C. pallens</i>	F			
<i>C. rigida</i> X <i>C. tubra</i>	E		T N G	U
<i>Coftaderia richardii</i>	KES	VFRHAC	T	G W U M P D O
<i>Deschampsia caespitosa</i> s.l. (incl. <i>D. caespitosa</i> var. <i>macrantha</i> )	SV	RHA	N	W U
<i>D. novae-zelandiae</i> s.l. (incl. <i>D. chapmanii</i> ?)	ES	V H A C B	T N G	W U M P D
<i>D. pusilla</i>			T	G U M P
<i>D. tenella</i>	F			G U
<i>D. sp.</i> (aff. <i>D. novae-zelandiae</i> but plants taller)				G U
<i>D.</i> (undetermined plant forming clump c. 20cm diam; lvs filiform; culms up to 50cm; panicle lax up	E			

- Deyeuxia aucklandica* [D. setifolia] F R B Y T G W U M P D  
*D. avenoides* s.l. (incl. *D. avenoides* var. *brachyantha*) E S V F R H A C B Y T N G W U M P D  
*D. youngii* s.l. (incl. *D. youngii* var. *petriei*) L R W P
- Dicholachne cincta* L K E S Y F R H A C B Y T N G W U M P D O  
*Echinopogon ovalis* L K E R H A C Y T W U M P P O  
*Elymus apicus* [Agropyron scabrum in part] K E Y T G W U M P P O  
*E. laevis* [Asperella laevis] E Y T G  
*E. multiflorus* [Agropyron multiflorum] E F R H G P  
*E. naraduroides* [Asperella gracilis] E C T U O  
*E. tenuis* [Agropyron scabrum in part] L K E S V F R H A Y T N
- E. sp. (a)* (aff. *E. rectisetus*; plants usually glaucous; lamina usually flat, up to 5mm wide; awns 4-6cm long) var. (a) (culms erect or ascending) [Agropyron scabrum in part] E S V R H C B Y T N G W U M P D O
- E. sp. (c)* (aff. *E. rectisetus*; plants green or glaucous; lamina usually channelled, up to 3mm wide when flattened; awns 2-3cm long) [Agropyron scabrum in part] F
- Festuca mathewsii* s.s. L K E S V F R H A C B Y T N G W U M P D O  
*F. multinodis* E S V R H A B T G W U M P D  
*F. novae-zelandiae* H C  
*F. sp. (d)* (slender, tufted glaucous-green plants with setaceous lvs) [F. rubra in part]



F. sp. (c) (F. matthewsii sensu Conner 1968)	S V							
Hierochloa cuprea	E							
H. equisetata	L	F	H A	T N G	W U			
H. novae-zelandica [H. fraseri in part]	E	S	F	T	G	U	M P D	
H. recurvata [H. fraseri var. recurvata]	E	S	F	T N G	W U	M P D		
H. redolens	E	S	V					
Koeleria cheesemanii [Fisetum cheesemanii]	K	E	S	A				
K. sp. (b) (K. novozelandica agg.; plants tufted; lvs flat) [K. kottzii in part]	K	E	S	F R H A C	B Y T	G	W U	M P D
Lachnagrostis filiformis ss. [Deyeuxia forsteri in part]	E	S	V	R H A C	B Y T N G	W U	M P D	
L. lyallii s.l. (incl. L. filiformis var. semiglabra) [Deyeuxia forsteri var. semiglabra]	K	E	S	R H A C	Y T N G	W U	M P D	
L. richardii [Deyeuxia forsteri var. pilosa]	L	E		F R H		G		
L. striata [Deyeuxia forsteri var. humilior in part]	S			A				
L. sp. (c) (glumes up to 4mm long; awns short or absent) [Deyeuxia forsteri in part]	S	V						
L. sp. (e) (aff. L. striata; awn short and straight, but anthers much longer than in L. striata - E. Edgar pers. comm.)	E			A C	Y T	G W U	M D	
Microlaena avenacea								
M. colensoi [Elythra colensoi]	S	V	F	R H		G	U	
M. stipoides	S	V	F	R H		G	U	
Pod breviglumis [P. imbecille var. breviglumis]	S		F	R H	C B Y T	G	W U	M P D
P. buchananii [P. sclerophylla]	S							

*P. cita* ssp. *cita* [*P. caespitosa*]

*P. colan-soi* s.l.

*P. colan-soi* f. (a) (plants forming large tussocks, up to 70 cm tall, on lowland and montane cliffs; culms up to 80 cm)

*P. colan-soi* f. (b) (plants forming small stiff tussocks in alpine zone; lvs vary pungent)

*P. colan-soi* f. (c) (widespread plants-forming small, wet vary stiff tussocks; lvs not vary pungent)

*P. imbecilla*.

*P. incrassata* [*P. exigua*]

*P. intrusa* (Dickinson 1988)

*P. kirkii*

*P. lindsayi*

*P. maniototo*

*P. mathewsii* [*P. imbecilla* var. *mathewsii*]

*P. novae-zelandiae* s.s. [*P. novae-zelandiae* in part]

*P. pusilla* [*P. seticulmis* and *P. pusilla*]

*P. pygmaea*.

*P. sublimis* ssp. *sublimis*

*P. sublimis* ssp. (incl. *P. senex*)

*P. subvestita* [*P. novae-zelandiae* var. *subvestita*]

*P. tonsa*

L K E S V F R H A C B Y T N G W U M P D O  
L K E S V F R H A C B Y T N G W U M P D O  
L K E S V R H A C Y T W P

B T

E S V F R H A C T N G W U M P D O

L K E S F R H C Y T G W M P D O  
K E H C Y T G W U M P

U

E S F R H C B Y T N G W U P D  
K E S V R A C T N W M P D O  
K H A C T N W U M P D O

E F

E R H A C B Y T G U M P D

E S

R H P D

G

E H C B T W M P

E S V F

S R H A C B Y T G W U M P D

P.sp.(a) (aff. *P. sudicola*) but lamina not so tightly rolled and hairy adaxially, panicle branches scabrid, and lemma nerves not scabrous - Edgar pers. comm.)

P.sp.(b) (aff. *P. novae-zelandiae* but panicles erect) (possibly of hybrid origin - Edgar pers. comm.)

P.sp.(d) (aff. *P. sublimus*; "differs from *P. sublimis* in having anthers c. 1mm long instead of <0.5mm, the lemma is 3-nerved, not 5-7-nerved and there is quite definite hair on the lower part" - Edgar pers. comm.)

*P. colensoi* X *P. pygmaea*

*P. manicolo* X *P. pygmaea*

*Puccinellia stricta*

*P. sp. (a)*

*Ryidosperma australe* [*Triodia australis*]

*R. buchananii* [*Pantonia buchananii*]

*R. clavatum* [*Pantonia pilosa* in part]

*R. cotinum*

*R. gracile* [*Pantonia semimaculata* in part]

*R. maculatum*

*R. metum*

*R. nigricans* (Dickinson 1988) [*Pantonia semimaculata* var. *nigricans*]

FRHAC Y T P D

E H P

E E

E

E

P

P

M O

M O

E S V F R H C B Y T N G W U M P D

E S V F R H A C B Y T N G U M P D

L K C Y T W P O

L E S V F R H A Y T N G W U M P D

K G P D O

G U

R. pumilum [Triodia pumila]	K E S V F R H A C B Y T N G W U M P D
R. setifolium [Dactyloctenium semicannabaceum var. setifolia]	K E S V F R H A C Y T G W U M P D
R. tenue [Dactyloctenium buchananii var. tenuis]	R H A C N G W M P D
R. thomsonii [Triodia thomsonii]	R H A U P D
R. unarecte [Dactyloctenium semicannabaceum in part]	L E W M P D
Simplicia laxa	K
Stipa patriei [S. setaceae]	H A C B T G W U M P D
Trisetum spicatum agg. [T. subspicatum]	E R H A C G W P
T. youngii	L K E S V F R H A C Y T G W U P D
T. sp. (a) (plants up to 45cm high; culms spread- ing at base, slender; panicles drooping; lf sheath usually glabrous, occasionally slightly hairy in upper part, with hairs up to 0.5mm long; lf blade flat, up to 2.5mm wide, margins smooth, usually with a few hairs near ligule) [T. antarcticum in part]	
T. sp. (b) (described as T. antarcticum, spp. tenellum by Petrie 1912) [T. antarcticum var. tenellum]	E S F H A C T N G W U M P D
Zoysia minima [Z. pungens in part]	O

**[SEDGES]**

Baumea rubiginosa	S V A
B. tenax	V
Carex aciculata s.l. (incl. C. alpinii)	E S E H A Y T G U M
C. albula	A
C. berggrenii	K E S V F R H A C B Y T G W U M P D
C. breviculmis	L K E S V R H A C B Y T N W U M P D
C. buchananii	L K E S V A T W U P O





C. sp. (j) (aff. C. raoulii but terminal spike wholly male and utricles margins and surfaces not scabrid)

E

C. sp. (l) [C. secta var. tenuiculinis]

V

C. diandra X C. secta

C. alpina ss

E. ochrochris acula

E. gracilis

E. pusilla

E. sphaeralata

I. solepis aucklandica [Scirpus aucklandicus]

I. basilaris [Scirpus basilaris]

I. caliginis [Scirpus caliginis]

I. habita [Scirpus habita]

I. inundata [Scirpus inundatus]

I. subtilissima [Scirpus subtilissimus]

S V F  
E S V F  
L K E S V F R H A B T N G U M  
S V R H A B T N G W U M P D O  
S R N W U M O  
N

S V

L K E S V F R H A C B T N G W U M P D O

S R H C B Y T N G W U P  
K E S Y F T G W U P D

R

S V

<i>Lepidosperma australe</i>	L	V	A	G	U
<i>Oreobolus impar</i>	E	F		G	U M
<i>O. pectinatus</i>	E S	V F R H A C B Y T N		G	W U M P D
<i>O. strictus</i>	E	V	T	G	U
<i>Schoenus concinnus</i> [ <i>S. nitens</i> var. <i>concinus</i> ]	E S V				
<i>S. pauciflorus</i> s.s.	K E S V	F R H A C B Y T N	G	W U M P D	O
<i>S. sp.</i> (a) (aff. <i>S. pauciflorus</i> ; "robust form" of Edgar 1970, under <i>S. pauciflorus</i> , p. 194; culms 15-2mm diam.)		F			
<i>Uncinia caespitosa</i>	E			G	U P D
<i>U. clavata</i>	E	F R	A	G	U
<i>U. divaticata</i>	E S V	F R H A C B Y T N	G	W U M P D	
<i>U. drucei</i>	E	F H C B T	G	U M P D	
<i>U. egyptiaca</i>	E	R	N	G W U M P	
<i>U. elegans</i>					
<i>U. ferruginosa</i>	E	V F		G	U
<i>U. filiformis</i>	E S V	B T	G	U M P	
<i>U. fuscovirginata</i> var. (a) (plants glaucous)	E				
<i>U. gracilenta</i>	E S V				
<i>U. involuta</i>		F R H	Y T		D
<i>U. laxiflora</i>			Y T		
<i>U. longifructus</i>	F				
<i>U. purpurata</i> s.l. (incl. <i>U. fuscovirginata</i> var. <i>caespitans</i> )	E	R H A C B Y T	G	W U M P D	
<i>U. rubra</i>	E S V		N G	U M	D
<i>U. rupestris</i> s.l. (incl. <i>U. angustifolia</i> )	E	F	G	U	
<i>U. scabata</i>	E	F			





L.crenulata	ESV	RHA	B	T	GW	M
L.leptophylla	ES	FRHAC	BY	TN	GWUM	PPD
L.migrata [L.banksiana var.migrata]	ESV	FRHAC	BY	TN	GWUM	PPD
L.picta s.s. [L.picta var.picta]	SV	FRHAC	BY	TN	GWUM	PPD
L.pumila	ESV	FRHAC	BY	TN	GWUM	PPD
L.thedina [L.banksiana var.thedina]	SV	FRHAC	BY	TN	GWUM	PPD
L.rufa agg.	ESV	FRHAC	BY	TN	GWUM	PPD
L.rufa s.s. [L.rufa var.rufa in part]	ESV	FRHAC	BY	TN	GWUM	PPD
L.sp.(c) [L.rufa var.albicomans]	ESV	FRHAC	BY	TN	GWUM	PPD
L.sp.(e) (plants hirsutous; infl head smaller than in L.rufa) [L.rufa var.rufa in part]	ESV	FRHAC	BY	TN	GWUM	PPD
L.subclavata [L.picta var.pallida]	ESV	FRHAC	BY	TN	GWUM	PPD
L.traversii s.s.	ESV	FRHAC	BY	TN	GWUM	PPD
L.ulophylla	ESV	FRHAC	BY	TN	GWUM	PPD
L.sp.(a) [L.picta var.limosa]	ESV	FRHAC	BY	TN	GWUM	PPD
L.sp.(b) [L.cornuta var.petriciana]	ESV	FRHAC	BY	TN	GWUM	PPD
L.sp.(f) [L.traversii var.tanvuis]	ESV	FRHAC	BY	TN	GWUM	PPD
L.migrata x L.rufa s.s.	ESV	FRHAC	BY	TN	GWUM	PPD
Matsippospatium gracile	ESV	FRHAC	BY	TN	GWUM	PPD
Rostkovia magellanica	ESV	FRHAC	BY	TN	GWUM	PPD

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

Arthropodium candidum	L	KE	FRH	T	GWUM	PPD
Astelia fragrans	L	E	FR	YT	GU	U



Anaphalis sp. (a) (incl. Helictysum bellidoides s.s.)	L	K	E	S	V	F	R	H	A	C	B	Y	T	N	G	W	U	M	P	D	
A. sp. (a) f. (a) (involveral bracts golden brown)													T								
A. sp. (a) X Leucogenes grandiceps			E																		
Brachyglottis bellidoides (f) (re corded by many authors but presence uncertain) [Sanecio bellidoides]																				G	
B. haastii [Sanecio haastii]		K							A	C					N	G	W		M	P	D
B. southlandica s.l. (incl. B. southlandica var. albidula) [Sanecio southlandicus]			L	E			F	R	H	A	C		Y	T	N						U
B. sp. (b) (included in B. bellidoides, as var. orbiculata, by Nordenstam 1978) [Sanecio bellidoides in part]																					G
Brachyscome linearis																					W
B. longiscapa [B. sinclairii in part]																					U
B. montana [B. sinclairii in part]																					G
B. radicata																					W
B. sp. (c) (prostrate perennial plants in open bogs in areas of ultramafic rock, emitting stolons from central rosette; lvs thick and fleshy, narrow linear-oblanccolate, up to 2.5 cm X 2 mm, usually entire, occasionally with 1-3 teeth; scapes up to 10 cm; capitula 8-10 cm diam.; involueral bracts c. 3 mm long, green with very dark purple margins, tips lacerate; ray florets white)																					U
																					D

areas of ultramafic rock, emitting stolons from central rosette; lvs thick and fleshy, narrow linear-oblanccolate, up to 2.5 cm X 2 mm, usually entire, occasionally with 1-3 teeth; scapes up to 10 cm; capitula 8-10 cm diam.; involueral bracts c. 3 mm long, green with very dark purple margins, tips lacerate; ray florets white)

<i>Celmisia angustifolia</i>	E S V F R H A C	Y T	G
<i>C. argentea</i>			G M
<i>C. bellidioides</i>	E S Y R H		G
<i>C. brevifolia</i> (whether <i>C. angustifolia</i> and <i>C. brevifolia</i> are separate species is open to doubt)	E R H	C B Y T	G W U M P. D
<i>C. densiflora</i> s.l. (incl. <i>C. prorepans</i> )	E S V	A C B Y T N	G W U M D
<i>C. glandulosa</i> ssp. (a) (described as <i>C. glandulosa</i> var. <i>longi-scapa</i> )	E S V F R H	C B Y T N	G U M



C. sp. (a) (aff. *C. gracilentata*; plants tufted; lvs linear-  
to linear-lanceolate, up to 45 x 1.2 cm) ssp. (a)  
(lower surface of lf white with cottony hairs)  
[*C. gracilentata* in part] F

C. sp. (b) (aff. *C. gracilentata* but plants strongly rhizom-  
atous) (the 2 forms described below may be the ends  
of a continuum) [*C. gracilentata* in part]  
C. sp. (b) f. (a) (plants of alpine and subalpine bogs; lvs usually < 4 cm long) E S V F R H A C Y T N G W U M

C. sp. (b) f. (b) (plants of lower-altitude bogs; lvs 10-20 cm long) E S V F A

*C. angustifolia* x *C. lindsayi* S

*C. argentea* x *C. viscosa* G

*C. argentea* x *C. sp.* ("of the *C. gracilentata* group")  
(Simpson and Thomson, 1926; recorded from the

"Wakatipu district")

*C. brevifolia* x *C. densiflora* G

*C. brevifolia* x *C. hectorii* E U

*C. brevifolia* x *C. walkeri* (?) (Simpson and Thomson, 1926) E

*C. densiflora* x *C. lindsayi* (Simpson and Thomson, 1926, as *C. densiflora* x *C. bonplandii*) E

<i>C. densiflora</i> X <i>C. montoi</i> (Dickinson 1989, as <i>C. densiflora</i> X <i>C. semicordata</i> )					G
<i>C. densiflora</i> X <i>C. spedenii</i>	E				
<i>C. glandulosa</i> X <i>C. lindseyi</i> (?) (Simpson 1926, as <i>C. glandulosa</i> X <i>C. hamplandii</i> ?)	E				
<i>C. gracilentata</i> X <i>C. montoi</i> (Dickinson 1988, as <i>C. gracilentata</i> X <i>C. semicordata</i> )					U
<i>C. gracilentata</i> X <i>C. verbascifolia</i>	E				
<i>C. haastii</i> X <i>C. hectorii</i>	E			YT	
<i>C. hectorii</i> X <i>C. ramulosa</i>	E				U
<i>C. hectorii</i> X <i>C. sinclairii</i>			F		
<i>C. lyallii</i> X <i>C. montoi</i>	S				G U M
<i>C. lyallii</i> X <i>C. sessiliflora</i> (Dickinson 1989)					G
<i>C. lyallii</i> X <i>C. verbascifolia</i>	E				G
<i>C. montoi</i> X <i>C. sessiliflora</i>	E				G U
<i>C. montoi</i> X <i>C. spedenii</i>	E				
<i>C. montoi</i> X <i>C. verbascifolia</i>	E				G
<i>C. montoi</i> X <i>C. viscosa</i>					G
<i>C. montoi</i> X <i>C. sp. (b)</i>					M
<i>C. montoi</i> X <i>C. sp. (undetermined)</i>					G
<i>C. ramulosa</i> X <i>C. walkeri</i> (Mark et al. 1989)					
<i>C. sessiliflora</i> X <i>C. verbascifolia</i>	E			YT	G
<i>C. sessiliflora</i> X <i>C. sp. (undetermined)</i>					U
<i>C. verbascifolia</i> X <i>C. sp. (b)</i>	E				
<i>Cantipeda minima</i> (Petrie 1896, as <i>Catula minima</i> )					A



(well-drained)

*Kraspedia lanata* s.s. (summer green plants in wet sites; lvs white, both surfaces densely clad in cottony hairs that mat together to form a felt closely appressed to the lf surface; fls yellow) A B Y T G W U M P D

*C. robusta* (summer-green plants in wet flushes and in moist tussock and shtob lands; lvs green or whitish green, both surfaces densely clad in short glandular hairs interspersed with few to many long multicellular non-glandular hairs with or without cottony tips; lf margins faintly to distinctly white with a band of cottony hairs; fls white) E V F R H A C B Y T N G W U M

*C. sp. (a)* (summer-green plants in wet flushes; 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, usually obscured; fls white) E F G U M P  
[*C. lanata* var. *elongata*]

*C. sp. (m)* (summer-green plants in alpine herbfields; lvs white or greenish white, both surfaces densely and conspicuously clad in erect, multicellular, non-glandular hairs, with long cottony tips that mat together to form a felt held above the lf surface; lf margins conspicuously white with a thick band of felted cottony hairs; fls white) B Y T G M D

C.sp. (p) (summer-green plants in wet  
 flushes; lvs green, somewhat glossy,  
 both surfaces densely clad in min-  
 ute glandular hairs of uniform length, inter-  
 spersed with scattered long, multicellular,  
 non-glandular hairs with or without cottony  
 tips; lf margins not white, or only faintly so with  
 a thin band of cottony hairs; fls yellow)

C

C.sp. (q) (summer-green <sup>plants</sup> in well-drained sites;  
 lvs green, both surfaces densely clad in  
 short glandular hairs not of uniform length,  
 interspersed with scattered long multicellu-  
 lar non-glandular hairs with or without  
 cottony tips; lf margins not white, or only  
 faintly so with some of the hairs cotton-  
 tipped; fls yellow)

R.H.A.C

C.sp. (v) (aff. C. lanata; summer-green plants  
 on dry stony terraces; lvs grayish white,  
 both surfaces densely clad in cottony  
 hairs that mat together to form a felt;  
 fls white.)

D

C. sp. (gg) (aff. sp. a but lvs narrower, felt of matted cottony hairs less dense, and capitula smaller; summer-green plants in red-tussock wetlands; lvs green or greenish-white; both surfaces densely clad in minute glandular hairs, with or without cottony hairs that mat together to form a thin felt closely appressed to the lf surface; fls white)

S V

C. robusta X C. sp. (a)

E

C. (undetermined plants)

S

N W M

*Dolichoglottis lyallii* [Sansecoiolyallii]  
*D. scorzoneroideas* [Sanseco scorzoneroideas]

*D. lyallii* X *D. scorzoneroideas*  
*Gnaphalium audax* [G. collinum in part]

*G. delicatum*

*G. ansifer*  
*G. laterale*

*G. limesum* s.s. [G. collinum in part]  
*G. mackayi* s.s. [G. traversii in part]

*G. polylepis*

*G. ruahinicum* [G. collinum in part]  
*G. sphaericum* [G. involucreatum in part]

*G. traversii*

*G. sp. (d)* (aff. *G. paludosum*; lvs linear, green on upper surface) [G. paludosum in part]

*Haastia sp. (a)* (described as *H. sinclairii* var. *fulvida* by Allan 1961)

*Helichrysum filicaule*

*Kirkianella novae-zelandiae* s.s.

*Lagenifera barketti* [L. punila var. *barketti*]  
*L. cuneata*

*L. petiolata* [L. punila var. *multicaudata*]  
*L. pinnatifida*

*L. punila*

*L. stragulata* [L. petiolata]

*Leptinella albida* ssp. *albida* [Cotula sericea]

*L. goyarii* [Cotula goyarii]

*L. mahiotata* [Cotula maniotata]

K E S V F R H A C B Y T N G W U M P D  
E F R H A G  
E F R H G  
L K E S V F R H A C B Y T N G W U M P D O

E S V N

E S V F R H A C N G W U M P D  
E S V F R N G U

E S V F R H A C B Y T N G W U M P D  
K S V R H A C T G W P D O

L K E F T G

L E R U D O  
L K E S V F R H A C T N G W M P D

S V

E S V F B Y T G P

L K E S V F R H A C B Y T N G W U M P D  
L E S V R H A C Y T N G D  
L E S V F R H A C N G M

L K E S V F R H A C B Y T N G W U M P D  
L E S V R H A C B Y T N G W U M P D

L E S V F R H A B Y T N G U  
L E S V F R H A B Y T N G U

L E S V F R H A B Y T N G U  
L E S V F R H A B Y T N G U

L E S V F R H A C B Y T N G U M P D  
L E S V R H C B Y T N G W U M P D

L S V A U M P O

*L. pectinata* ssp. *pectinata* (Mark and Adams, 1973)  
 [*Cotula pectinata*] P

*L. pectinata* ssp. *villosa* [*Cotula villosa*] K E RH C B Y T G W U M P D

*L. pectinata* ssp. *willcoxii* [*Cotula willcoxii*] E S V F R H

*L. pectinata* ssp. *villosa*  $\rightleftharpoons$  ssp. *willcoxii* E R H A C

*L. pusilla* [*Cotula pappusilla* in part] K S R H A Y T N G W U M P D O

*L. serrulata* [*Cotula pappusilla* in part] L A T G W M P D O

*L. sp. b*) (included in *L. squalida*, as ssp. *mediana*, by Lloyd and Webb, 1987) [*Cotula squalida* in part] L E F R N.G

*L. sp. f*) (aff. *L. sp. b* but pinnae teeth broadly triangular rather than narrowly triangular; the plant illustrated in Mark and Adams, 1973, pl. 64, under *Cotula squalida*, probably belongs to this species) [*Cotula squalida* in part] S V R H A Y T N G W M P

*L. sp. h*) (aff. *L. pectinata*; vs linear-lanceolate, silvery green, densely villous; pinnae linear, acute; peduncles very slender, up to 6 cm; capitulum 2-3 mm diam.) O

possibly a ssp. of that sp.

*L. albidula* X *L. pectinata* (Lloyd 1972; precise locality not indicated)

*L. goyenii* X *L. pectinata* (Lloyd 1972; precise locality not indicated)

- L. pectinata* X *L. sp.(b)* E  
*Leucogenes grandiceps* s.s. E S V F R H C B Y T G U M P D  
*L. grandiceps* f. (a) (capitulum solitary) G M
- Microseris scapigera* var. (a) ("forma linearis" of Allan 1961; lvs filiform, usually entire in field, but producing truncate teeth in cultivation) E S V R H A N G U M D
- Pseudognaphalium* sp. (a) (aff. *P. luteoalbum*; lvs mostly linear-spathulate to linear, acute) [*Gnaphalium luteoalbum* in part] E S V F R Y T G U
- P. sp.(b)* (aff. *P. luteoalbum*; lvs mostly oblong-spathu- late to narrowly oblong, rounded) [*Gnaphalium luteoalbum* in part] L K E S R H A C B T N G W U P D O
- P. sp.(g)* [*Gnaphalium luteoalbum* var. *compactum*] S
- Raoulia apicinigra* s.s. [*R. hookeri* var. *apicinigra* in part] E R H A C B Y T W U P D  
*R. australis* agg. K E S V R H A C Y T N G W U M P D O
- R. sp.(i)* (*R. australis* "diploid" of Dawson et al. 1993) L K H C T M P O  
*R. sp.(j)* (*R. australis* "tetraploid" of Dawson et al. 1993) M O
- R. beauverdiei* [*R. hookeri* var. *apicinigra* in part] K R H A W M P D O  
*R. buchananii* E S V R H A G  
*R. glabra* L K E S V F R H A T N G U M P D  
*R. grandiflora* var. (a) (lvs more rigid than in var. *grandiflora*; tip almost acicular rather than bluntly acute) E S V F R H A C B Y T G W U M P D  
*R. haastii* S V R H N G  
*R. hectorii* s.s. E R H A C B Y T G W U M P D  
*R. hookeri* s.s. (*R. hookeri* "tetraploid" of Dawson (1993) et al.) L K E S F R H T G W U P D  
*R. montai* P D O

R. parkii	K E	R	A C	T N G W	M P D D
R. subsericea	K E S V	R H A C	B Y T	T N G W	U M P D
R. subulata	E	H A C	B Y T	G W	U M P D
R. tenuicaulis s.l. (incl. R. tenuicaulis var. dimorpha and R. tenuicaulis var. pusillata)	L K E S V F	R H A	Y T N G	W U M P D	
R. youngii	E	R H A C	B Y T	G	M P
R. sp. (f) (described as R. hectorii var. mollis by Buchanan (1899))	E		C B	T G	M P
R. sp. (g) (aff. R. bryoides; R. "sp. L." of Ward (1982))					
R. australis X R. baauverdii			B	T G	M P
R. baauverdii X R. montoi					8
R. baauverdii X R. sp. (i) (Dawson et al. 1993)					M
R. hookeri X R. sp. (i) (Dawson et al. 1993)		H			M
R. parkii (?) X R. sp. (i) (Dawson et al. 1993)					M
R. sp. (i) X R. sp. (i) (Dawson et al. 1993)					U
R. hectorii X Leucogenes grandiceps					
R. subsericea X Leucogenes grandiceps (?) (J. Ward pers. comm.)			G		
Senecio biserratus (Johnson 1983) [Erechtites sonchoides]					U
S. dunedinensis [Erechtites diversifolia]	L E	R H A C			D
S. minimus [Erechtites minima var. heterophylla and E. minima var. angustata]	L K	R	T G	U M P	
S. quadridentatus [Erechtites quadridentata]	L K E	R	C B Y T	W U M P D D	
S. wairauensis [Erechtites wairauensis]	E S V F R H		Y T	U	P D
S. sp. (a) (described as S. glaucophyllus ssp. discoides by Ornduff 1960) ssp. (b)	K		C B T	G W	M P D
Taraxacum magellanicum	E S V F R H A C	B Y T		G W U M P D	
Vittadinia australis agg.	K E	R H	C B Y T	G W U M P D	

DICOTYLEDONOUS HERBS OTHER THAN COMPOSITES

*Acaena anserinifolia* [A. anserinifolia, A. virdior,  
and A. pusilla]

L K E S V F R H A T N G W U M P D

*A. buchananii*

K E A T N W U M P D O

*A. caesiiglauca*

L K E S V F R H A C B Y T N G W U M P D

*A. dumicola*

L E R H A Y T

*A. fissistipula*

E S V F R H C B Y T N G W M P D

*A. inermis* [A. inermis, A. microphylla var. *robusta*, and  
A. microphylla var. *pallideolivacea*]

K E S V F R H A C B Y T N G W P D O

*A. juvenca* [A. anserinifolia in part]

L K E S V F R T G W U M P

*A. microphylla* var. *pauciglochidiata*

N

*A. novae-zelandiae* (present but considered to be  
adventive)

*A. profundeincisa* [A. anserinifolia var. *sericeiventans*  
and A. anserinifolia var. *paucidentans*]

E S V F R H A C B Y T N G W U M

*A. saccaticupula*

K E S V F R H A C B Y T N G W U M P D

*A. tesca*

S V C N G W U M D

*A. anserinifolia* X *A. inermis*

E S V

*A. anserinifolia* X *A. juvenca* (Dickinson 1988,  
as *A. anserinifolia* X "916")

U

U

*A. caesiiglauca* X *A. dumicola*

Y T

*Aciphylla aurea*

K E R H A C B Y T N G W U M P D

*A. colensoi* var. *maxima* [A. scott-thomsonii]

K E V R H

T N G U M





A. brevistylis	ESVFR	ACBYTNGWU	PD
A. capillifolia	ESVFRHA	BYTNG	UM
A. caudicola	LKE	BYTNGW	PD
A. flexuosa [A. aromatica var. dissecta]	ESVFRHAC	BYTNGWUMPD	
A. haastii	FRHA		
A. imbricata ss.	RHAC	BYTNGWUMPD	
A. lanuginosa [A. aromatica var. lanuginosa]	CBYT	GWMPD	
A. pilifera	FRHA	YT	P

A. sp. (c) (standar rhizomatous plants of seepages; lvs c. 1cm long, finely dissected; pinnulae segments linear, 1-2mm long, bifistle-tipped)

Apium sp. (a) (plants with slender stems; fls 1-1.5mm diam.) [A. filiforme]

Atriplex buchananii	ESV	CB	TNG	MP	O
Callitriche petriei ssp. petriei	ES	RHA	BYTNG	WUMPD	
Cardamine bilobata					

*C. corymbosa* agg. L E S V F R H A C B Y T N G W U M P D O

*C. sp. (a)* (plants slender; fls petalous or apetalous - petalous 4-6 mm diam.; the common lowland and montane species of North and South Islands) L E S V F H A N

*C. sp. (f)* (plants in areas of ultramafic rock; lvs mostly simple, occasionally with up to two pairs of pinnules; terminal lamina ± faniform) E

*C. sp. (j)* ("Scree Race" of Pritchard 1957) E S V F C B Y T G P

*C. sp. (m)* ("C. 'larn" of Johnson and Brooke, 1989; plants small, delicate, much-branched, on damp ground that is periodically inundated; stems decumbent; stems and petioles clad in hispid hairs; lvs simple, or pinnate with up to 3 pairs of pinnules; terminal lft much the largest, elliptic-oblong, up to 7 x 3 mm, entire; fls up to 2 mm diam, solitary on slender pedicels c. 1 cm tall; pedicels lengthening to c. 4 cm after anthesis; siliques c. 1 cm long) N

*C. sp. (v)* (plants in wet flushes in subalpine and alpine zones; fls large, up to 1.5 cm diam.; petals up to 6 mm broad) C Y T M P

*C. sp. (y)* (aff. "Scree Race" of Pritchard 1957, but lvs simple, entire, narrowly spatulate; siliques 0.6-1.3 mm long) P

*C. debilis* agg. L K E S V F R H A C Y T N G W U M P  
*C. sp. (b)* ("Long style" of Fitchard 1957) E F Y T N  
*C. sp. (c)* ("Narrow Petal" of Fitchard 1957) L E R A C Y T  
*C. sp. (d)* ("Glossy Leaf" of Fitchard 1957) L E F R G U  
*C. sp. (h)* (siliques minutely hairy) Y T

*C. sp. (n)* (fls minute; petals c. 2 X 0.8 mm; L  
 siliques slender, glabrous, 2-3.5 cm  
 long; style slender, 1-2 mm long) R

*Centalla uniflora* E A G W D  
*Ceratocephalus pungens* W M D O  
*Cheeseniana fastigiata* s.s. H Y T G  
*C. wallii* Y T G  
*Chenopodium glaucum* ssp. *ambiguum* [C. *ambiguum*] M D O  
*C. delastans* A P O  
*Chionochete ciliolata* ssp. (a) (described as *lygnea*  
*ciliolata* var. *fiordensis*) E V A  
*C. densifolia* [ *Pygmaea tetragona* ] R H A C B Y T N G W U M P D  
*C. glabra* [ *Pygmaea thomsonii* in part ] B T G W M P  
*C. myosotoides* [ *Pygmaea myosotoides* ] P

<i>C. thomsonii</i> [Pygmaea thomsonii in part]	E	FRHACBYT	GWUMPD
<i>C. densifolia</i> X <i>C. thomsonii</i>		R C	P
<i>C. glabra</i> X <i>C. myosotoides</i>			P
<i>C. glabra</i> X <i>C. thomsonii</i>			P
<i>C. glabra</i> X <i>Parakebe trifida</i>			G
<i>Colobanthus affinis</i> (Dickinson 1988)			U
<i>C. apetalus</i> s.l. (incl. <i>C. apetalus var. alpinus</i> )	ESV	FRHACBYT	NGWUMPD
<i>C. brevisepalus</i>	LK	A	MPDO
<i>C. buchananii</i> s.s.	KESV	FRHACBYT	GWUMPD
<i>C. strictus</i>	LKESV	FRHACBYT	NGWUMPD
<i>C. sp. (c)</i> (aff. <i>C. affinis</i> ; <i>C. "Kapeka"</i> of Wilson 1982;			G

plants in water tunnels in alpine flushes;  
 stems long and slender; lvs vary fine, c. 0.3  
 mm wide; acute or shortly acicular; sepals 1.5-2  
 mm long; capsule lobes 1.5-2 X sepals when  
 fully open)

<i>Crassula multicaulis</i> [ <i>Tillaea multicaulis</i> ]	ES	A	N	O
<i>C. pedunculatis</i> [ <i>Tillaea purpurata</i> ]	LKESV	R A B	TNGW	MPDO
<i>C. sinclairii</i> [ <i>Tillaea sinclairii</i> ]	LK S	R A C B	TNGW	UMPD
<i>C. tetramera</i> [ <i>Tillaea sibirica</i> in part]				U
<i>Dichondra brevifolia</i> (Dickinson 1988, Bramley et al 1986)	KE		T	WUMPD
<i>D. repens</i> agg.	E Y		G	UM
<i>Donatia novae-zelandiae</i>	ESV	FR A B Y T N G		UMPD
<i>Drosera arcturi</i>			H	
<i>D. binata</i> (Petrie 1896)	E V		T	
<i>D. spathulata</i>				
<i>D. stenopetalata</i> (Petrie 1896)				



<i>E. verheroides</i> [ <i>E. pedunculata</i> var. <i>viridiz</i> ]	K E S	FRH C	TNG	U P
<i>E. nummulatifolium</i>	L E V	RHA	YT	G W U M P D
<i>E. pallidiflorum</i>	L V	R		U
<i>E. pernitens</i>	L K E	FRH C	T	G W U M P D
<i>E. pictum</i>	K E S	RH	T	G W U M P
<i>E. porphyrium</i>	E S	FR A	BYT	G U M P D
<i>E. pubens</i> and [ <i>E. pubens</i> var. <i>strictum</i> ]	L K E	FRH A C	BY	N G W U M P D
<i>E. purpuratum</i>	E	FRH A	G	P
<i>E. psychostachyum</i>	E S			
<i>E. rostratum</i> [ <i>E. rostratum</i> and <i>E. rostratum</i> var. <i>pubens</i> ]	L K E	FRH A C	T	G W P D
<i>E. rotundifolium</i>	E S	FRH A C	BYT	G W U M P D
<i>E. tasmanicum</i>	K E S	FRH A C	TN	N G W M P D
<i>E. tenuipes</i> agg.	E S	FRH	N	G W M P D
<i>E. elegans</i>	E S	FRH		
<i>E. tenuipes</i> s.s.	E S	FRH		
<i>E. sp. (d)</i> (stems up to 15cm long, decumbent, much-branched, often rooting; lf lamina purplish red underneath, broadly elliptic, up to 1.5 x 0.9cm; capsule minutely pubescent or glabrous, 2.5-4cm long; fruiting pedicel up to 8cm long)				
<i>E. glabellum</i> X <i>E. sp. (a)</i>		RH		
<i>E. macropus</i> X <i>E. sp. (a)</i>	S	A	T	
<i>E. (undetermined plands)</i>		A	B T	
<i>Euphrasia australis</i>	E S Y F		G	U
<i>E. dyeri</i> s.s.	E			
<i>E. integrifolia</i>	S		N G W U M P D	

- E. zelandica* s.l. (2 out of a number of forms are <sup>described</sup> below) E S V F R H A C B Y T N G W U M P D  
*E. zelandica* f. (a) (plants up to 10 cm diam., much branched with branches ± appressed to ground, in dry montane sites; lvs usually 7-lobed, sparsely to densely clad in stiff, white non-glandular hairs; calyx with glandular hairs as well as stiff white non-glandular hairs) N  
*E. zelandica* f. (b) (plants 1-2 cm tall, in alpine herbfields, simple and erect, or with a few branches; lvs usually 5-lobed, sparsely clad in glandular hairs; calyx similarly clad) R H A C B Y T G W U M P D  
*E. sp.* (c) (aff. *E. patrici*; referred to as "dwarf densely tufted forms" of *E. patrici* by Ashwin 1961; plants forming dense clumps, up to 8 cm diam. and 2 cm tall; lvs fleshy, glabrous; lf margins recurved; calyx-fleshy, glandular-hairy, hairs mainly on margins; corolla white with yellow throat, not striated, c. 1.2 cm wide; corolla tube with both glandular and non-glandular hairs) [E. *patrici* in part] E F R H B Y T G W M P D  
*E. australis* X *E. zelandica* (?) F



*Forstera sedifolia* s.s. [*F. sedifolia* in part]

E S V F R A Y T G U

*F. tanella*

E S V F R H A Y T G U

*F. sp. (d)* (described as *F. sedifolia* var. *oculata* by Cheeseman 1906) [*F. sedifolia* in part]

E S V

*Galium perpusillum* s.s.

L K E S V F R H A C B Y T N G W U M P D

*G. propinquum*

L E R C Y T G U M P D

*G. thilobum* [*G. tenuicaule*]

L K E S V F A B T W M P

*G. sp. (b)* (aff. *G. perpusillum*)

E S V R N W

Plants forming moss-like turf, 1-3 cm tall, on damp ground that is periodically inundated; lvs narrowly elliptic, 1-3 mm long, rounded to subacute; stipules slightly narrower and shorter, acute; apical bristles 0 or 1, rarely 2 or 3; fls c. 2 mm diam, white) [*G. perpusillum* in part]

*G. sp. (c)* (aff. *G. perpusillum*; plants in dry sites forming cushions or growing interspersed in cushions of other spp.; lvs elliptic to narrowly elliptic, 2-3 mm long, rounded to subacute; stipules distinctly narrower, subacute to acute; lvs and stipules thick and fleshy, papillose and with numerous bristles on apex and upper margins; fls c. 4.5 mm diam, white or with the tips of the corolla lobes fringed pink; corolla tube c. 1 mm long, funnel-form; corolla lobes usually 4, often 3, rarely 5, acute) [*G. perpusillum* in part]

*Gentiana amabilis* [*G. bellidifolia* in part]  
*G. bellidifolia* s.l. (all the forms described below differ somewhat from typical *G. bellidifolia* of central N Island)

*G. bellidifolia* f.(a) (plants tall, up to 25cm, in tussock land of montane and subalpine zones; lvs narrowly lanceolate when flattened out; calyx lobes narrowly acute)

*G. bellidifolia* f.(b) (plants squat, in herbfield, flushes and bog margins of alpine zone; lvs broadly lanceolate when flattened out; calyx lobes broadly acute)

*G. bellidifolia* f.(c) (plants slender, up to 20cm, in herbfield and wet flushes of subalpine zone; lvs small and broad; calyx lobes broadly subacute)

*G. bellidifolia* f.(d) (plants tall, up to 30cm in damp areas of ultramafic rock; lvs linear-lanceolate; calyx lobes very narrowly acute, longer than in f.a)

*G. divisa* s.l. (incl. *G. divisa* var. *magnifica*)

*G. grisebachii*

*G. fillipuliana*

*G. malhevusii*

E S V H A C B Y T N G W U M P D  
 E S V R H B Y T N G W U M P D

T N G W

E S G W M P D

E

E

E S V F R H H A C Y T G U P D  
 E S V F R H H A C Y T G U P D

E N G W U M D

<i>G. serotina</i> s.l.							
<i>G. serotina</i> f. (a) (plants in <sup>montane,</sup> subalpine and alpine tusssock land, robust, up to 40cm tall; radical lvs up to 8cm long; fls numerous, in umbels up to 9cm diam; calyx cut $\frac{2}{3}$ way with long, erect, acuminate lobes; sinus broad; corolla up to 2-3cm diam)	ES	FRHAC	T	G	P		
<i>G. serotina</i> f. (b) (plants in montane gorges, not so robust as in f. (a); calyx lobes recurved)	ES	FRHAC	T	G	P		
<i>G. sp.</i> (h) (biennial; aff. <i>G. divisa</i> but plants more slender, 4-15cm tall; basal lvs forming a dense rosette up to 7cm diam; stems numerous from near base, most branching; infl. produced well above lvs; calyx lobes subacute, sinus narrow; corolla c. 1cm diam.)	E	F					G
<i>G. divisa</i> X <i>G. serotina</i>							
<i>G. grisebachii</i> X <i>G. matthewsii</i> (?)	F						N
<i>Geranium potentilloides</i> var. <i>potentilloides</i> [ <i>G. microphyllum</i> in part]						R	
<i>G. sessiliflorum</i> var. <i>novae-zelandiae</i>		LKESY	FRHAC	BYT	NGWU	M	P
<i>G. sp.</i> (e) (aff. <i>G. microphyllum</i> ) [ <i>G. microphyllum</i> in part]		LKESV	FRHAC	BYT	NGWU	M	P

ESYFRHACBYTINGWUMPP  
 HGWMP  
 ESYFRHACBYTINGUM  
 UMPD

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

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

E  
 KESV R H A C Y T I N G U M P  
 L K E S V F R H A C B Y T G W U M P P  
 E R H C G W U M P  
 S V R A G M  
 S V F R H A T N G W U M P D  
 E S V F R H A T N S W U  
 E S V F R H A A N G U U M P  
 E S F H H G U M P  
 S

*Gingidia baxterae* [*Anisotome enysii* in part]  
*G. decipiens* [*Angelica decipiens*]  
*G. enysii* s.s. [*Anisotome enysii*]  
*G. montana* [*Angelica montana*]  
*G. decipiens* X *G. montana*  
*Glossostigma diandrum* [*G. submetsum*]  
*G. elatinooides*  
*Gonocarpus aggregatus* [*Haloragis depressa*]  
*G. micranthus* ssp. *micranthus* [*Haloragis micrantha*]  
*G. montanus* [*Haloragis procumbens*]  
*Gratiola sexdentata*  
*Gunnera dentata* var. *dentata*  
*G. monoica* [*G. monoica*, *G. albocarpa*, and *G. strigosa*]  
*G. prorepens* (Dickinson 1988)  
*Gratiola nana*

*Haloragis erecta* (Brumley et al. 1986)  
*Heorella caespitosa*  
*Hydrocotyle heteromeria* [*H. americana*]  
*H. hydrophila* [*H. tripartita* var. *hydrophila*]  
*H. microphylla*  
*H. moschata* s.s.  
*H. novae-zeelandiae* s.s.  
*H. sulcata* [*H. tripartita* in part]  
*H. sp.(a) var(a)* [*H. novae-zeelandiae* var. *montana*]

	E	S	V	F	R	H	A	C	B	Y	T	G		U					
	E	S	V	F	R	H	A	C	B	Y	T	G	W	U	M	P	D		
	E	S	V	F	R	H	A	C	B	Y	T	G		U			O		
	L	K	E	F	R	H	A	C	B	Y	T	T	N	G	W	U	P	D	
	L	K	E	F	R	H	A	C	B	Y	T	G		U			P	O	
	L	K	E	F	R	H	A	C	B	Y	T	T	N	G	U			O	
	L	K	E	F	R	H	A	C	B	Y	T	T	N	G	U	M	P	D	
	L	K	E	F	R	H	A	C	B	Y	T	T	N	G	W	U	M	P	D

*H. sp.(c)* (bog plants forming ex-

N M

tensive patches; lvs glabrous; lamina up to 11mm diam., ± evenly cut  $\frac{1}{3}$  way into 7 broad, untoothed lobes; upper surface usually slightly convex, glossy, all veins embossed; sinus vary wide, angle between lowermost lobes  $90^{\circ}$ - $180^{\circ}$ ; fls and frs not seen

*H. sp.(d)* (aff. *H. novae-zeelandiae*; cf. *H. "ötotoa"* L. . . . . H.

of Webb and Bauzenberg, 1987; lvs hairy; lamina up to 16mm diam, cut  $\frac{1}{4}$  way into 7 toothed lobes; upper surface slightly glossy; sinus narrow; fr rounded on dorsal edge)

K L E S R H C T N W M P D O

*Hypaticum graminicum*

*H. japonicum* agg. (the following are possibly not distinct spp.; there are other forms present as well)  
*H. sp. (b)* (plants rhizomatous, in grassland at forest margin; flowering stems up to 8cm long, decumbent to suberect; lvs on flowering stems larger than those on vegetative stems, elliptic-oblong or narrowly elliptic-oblong, up to 11x4.5mm, rounded to subacute, fls 8-10mm diam; 2 sepals slightly broader than other 3, former subacute, latter acute; capsule 4-5mm long, 3-3.5mm diam.)

mid-vein alone prominent;

*H. sp. (c)* (plants rhizomatous, in moist channels and seepages; flowering stems up to 2cm long in field, 4cm in cultivated plants, decumbent to suberect; lvs narrowly elliptic-obovate, up to 2x1mm in field, 5x3 in cultivated plants, rounded, mid-vein alone prominent; fls 3-5mm diam; capsule 3-4mm long x 1.5-2mm diam.)

*H. sp. (d)* (plants rhizomatous, in well-drained sites in tussock land; flowering stems up to 8cm long, decumbent to erect; lvs on flowering stems larger than those on vegetative stems, narrowly elliptic-oblong, up to 5x2mm in field, 8x3mm in cultivated plants, rounded to subacute, fls 4-7mm diam; capsule 3-4mm long x 1.5-2mm diam; illustrated in Moore and Irwin, 1978, p.17)

mid-vein alone prominent;

*Hypsela rivalis*

S V A N

Ischnocarpus novae-zeelandiae  
 Kalleria childii [Drapetes lyallii in part]  
 K. croizatii [Drapetes lyallii in part]  
 K. dieffenbachii [Drapetes dieffenbachii]  
 K. laxa [Drapetes laxus]

L K E S R A Y T G P  
 E C B Y T G W U M P D  
 E S Y F R H A G  
 E S V F R H A C B Y T N G W U M P D  
 E S A N G W U

K. paludosa  
 K. villosa var. villosa [Drapetes villosus]  
 K. dieffenbachii x K. villosa (F)

E S C B Y T N G W U M P D  
 E S V A C B Y T N G W U M D M

Lepidium kirikii.

L. sisymbrioides ssp. kawarau [L. kawarau]  
 L. sisymbrioides ssp. matau [L. matau]  
 L. sisymbrioides ssp. sisymbrioides

K T W P O P D O O O O

Lilaeopsis tulliana

Limosella curdieana (Patrie 1896; Cheeseman, 1906 and 1925)

L. lineata agg.

L. sp. c) (lvs filiform, up to 5cm long in damp mud; peduncle up to 6mm; corolla 4-5mm diam.)  
 L. sp. d) (lvs narrow linear-spathulate; corolla 2-3 mm diam.)

L E S V R A T N W M O O  
 L E S V F R A N G M O

Lobelia linnaeoides.

Mazus novaezeelandiae [M. pumilio]

M. radicans

Mantha cunningghamii

Montia fontana ss.

E S Y R H A C B Y T G W U M P D  
 K E S V F A T N G W P  
 L K E S V R H A Y T N G W U M P D  
 L E S V R H A C B Y T N G W U M P D





or scarcely so;

M. sp.(n) (plants forming patches up to 10 or more cm diam. in areas of ultramafic rock; lvs bluish green, up to 20x6 mm in exposed sites, 50x8 mm in sheltered sites; lamina elliptic, gradually narrowed to petiole, apex subacute, recurved; lf hairs on both surfaces, forward-pointing, stiff, ± appressed, not overlapping fls on leafy cymes on erect or ascending branches; corolla up to 5 mm diam; lobes flat, broad, as wide as long; anther tips slightly exceeding corolla tube) E

M. sp.(c) (aff. *M. tanagericaulis*; Moore 1961, undat. --- E  
*M. tanagericaulis* on p. 814, States: "Specimens from boggy places in the Garvie Mts. .... are dwarfed and flower at c. 2 m tall; internodes and pedicels are short and lf-texture is less memb. than in target plants"; plants on the Eyre Mts and Old Man Ra. are similar; a plant of this kind is illustrated in Mark and Adams, 1973, pl. 81) G --- M

M. sp. (T) (aff. *M. angustata* but lvs broader; scrae-  
plants with stem lvs similar to rosette lvs; hairs  
not hiding epidermis, retrorse hairs absent;  
cymes ebracteate; anthers wholly above  
corolla scales; filaments about = anthers;  
infl dense in fr)

M. sp. (G) (aff. *M. pygmaea*: plants very small in  
wild - in herbfield in kettleholes; in cultivation  
forming patches up to 15 or more cm diam;  
stems prostrate, rooting; lvs brownish green  
to green, with dark petiole, and dark midrib  
on lower half of upper surface, narrow  
obovate-spathulate, up to 4 cm long, apex re-  
curved; lf hairs forward pointing, not appress-  
ed as in *M. pygmaea* ss., confined to upper  
surface and margins; hair base not enlarg-  
ed as in *M. sp. (h)* of central N Island; fls  
in leafy cymes on decumbent branches;  
calyx lobes cut to c half way; calyx hairs  
long, ± spreading; corolla c. 3 mm diam;  
anthers wholly below corolla-scales)

Myosurus minimus ssp. novae-zealandiae [M. novae-zealandiae]

Myriophyllum pedunculatum ssp. novae-zealandiae

M. propinquum

M. triphyllum [M. dlatioides]

M. volschii

Neopaxia sp. (b) (described as Claytonia calycina by Colenso 1846) var. (b) (described as Claytonia australasica var. sessiliflora by Simpson 1952; lvs broader, up to 20 x 3 mm; illustrated in Mark and Adams, 1973, pl. 16, under the name Neopaxia australasica) [Claytonia australasica in part]

N. sp. (d) (plants forming mats on damp ground)

Mat is periodically inundated; lvs filiform, 1-5 cm long; fls 6-8 mm diam.; sepals rounded, margins pale; petals oval, rounded to subacute) [Claytonia australasica in part]

K - - - - - A - - - - - W U M - - - - - D O -

S V F - - - - - A - - - - - U - - - - - P -

L - - - - - S V F R A - - - - - T N G W U M - - - - - O -

L - - - - - E S V F R H A - - - - - N G - - - - - M P - - - - - O -

L - - - - - K E S V F R H A C B Y T N G W U M P P - - - - - O -

S V - - - - - H A - - - - -

*Nertera balfouriana*  
*N. ciliata* K E S V R H A C B T N G W U M P D  
 L E S V F R H A B T G U M  
*N. depressa* s.l. (incl. *N. cunninghamii*) L E S Y F R G U  
*N. setulosa* E F F N G U  
*N. sp. (a)* (aff. *N. dichondrifolia* but hairs present on both surfaces of lf, straight, not hooked) E F F G U  
 [ *N. dichondrifolia* in part ]

*Oreomyrthes colensoi* s.l. (incl. *O. colensoi* var. *hispida* and *O. colensoi* var. *multifida*) E S V F H A B T N G U M  
*O. ramosa* s.s. E S V F R H A C B Y T N G W U M P D  
*O. figida* E S V F R A Y T H W M D O  
*O. sp. (a)* (described as *O. colensoi* var. *delicatula* by Allan 1961) E S N

*O. sp. (c)* (aff. *O. colensoi*; small bog plants, 4-8 cm diam; lvs 2-stem long; pinnae closely spaced but not overlapping, sessile or very shortly petiololate, spatulately hirsute; fts ovoid, 2-2.5 mm long, c. 1 mm broad, widest below middle, glabrous) E S V R H C B Y T N G W U M P D

*O.* (undetermined plants up to 15 cm diam. in grassland; lvs delicate, up to 9 cm long; pinnae widely spaced, sessile or very shortly petiololate, almost glabrous; fts ovoid, c. 2 mm long, c. 1.5 mm broad, widest below middle) E

<i>Oleostyidium subulatum</i>	E S V	F R H A C B Y T N G	G U
<i>Ourisia caespitosa</i> ssp. (a) [ <i>O. caespitosa</i> var. <i>gracilis</i> ]	E S V	F R H A C B Y T N G	W U M P D
<i>O. confertifolia</i> [ <i>O. glandulosa</i> in part]	F	F R H A C B Y T	G
<i>O. glandulosa</i> ssp. <i>glandulosa</i>	F	F R H A C B Y T	G W U M P D
<i>O. lactea</i> ssp. <i>lactea</i> [ <i>O. macrophylla</i> var. <i>lactea</i> ]	E	V F R H	G
<i>O. sessilifolia</i> ssp. <i>sessilifolia</i>	E S		G
<i>O. spathulata</i>	E	Y T	G W
<i>O. caespitosa</i> X <i>O. glandulosa</i>			
<i>O. caespitosa</i> X <i>O. macrocarpa</i>	F		
<i>O. caespitosa</i> X <i>O. sessilifolia</i>	F		
<i>O. caespitosa</i> X <i>O. spathulata</i>	S		
<i>O. glandulosa</i> X <i>O. sessilifolia</i> (Market al. 1989)	E S V	R H A B Y T N G	W U M P D O
<i>Oxalis exilis</i> [ <i>O. corniculata</i> in part]	K E	T	G U M P D
<i>O. magellanica</i> s.l.	K E		
<i>O. magellanica</i> f. (a) (common New Zealand form; <i>K E</i> lvs green, up to 15mm diam.)			
<i>O. magellanica</i> f. (b) (illustrated in Mark and Adams, 1973, pl. 16; plants in alpine zone in Otago, usually in wet flushes; lvs glaucous, seldom > 8mm diam.)		T G	U M P D
<i>Pachycladon novae-zelandiae</i>	E	R H A C B Y T	G W U M P D
<i>Parahebe birleyi</i> ssp. <i>birleyi</i>	E	F B Y T	
<i>P. canescens</i>			O
<i>P. decora</i>	E S V	F R H A C Y T N G	G U
<i>P. linifolia</i> ssp. <i>brevistylis</i>	K E	F R H A C Y T	G W P

P. lyallii L E S V F R H G U  
 P. planopetiolata s.s. E F R H A G U  
 P. trifida E T G U M D  
 Parietaria debilis (Petrie 1896) A

*Pelargonium inodorum* (present but considered to be adventive)

Phyllachne elavigera var. (a) (described as P. haastii by Berggren 1880) E S V F R H A C B Y T G W U M P D

P. rubra H A B Y T G W U M P D  
 Plantago lanigera s.s. F R H A C B Y T N G W U M P D  
 P. novae-zelandica E S V F H B Y T G W U P D  
 P. obconica H C  
 P. praoulii E S V F R  
 P. spathulata ssp. spathulata L E S V R  
 P. triandra s.s. L K E S V R H A C B Y T N G W P  
 P. uniflora E S V F R H A C B Y T N G W U M P D  
 Potentilla anserinoides E S V F R H N G U P  
 Pratia angulata agg. L E S V F R H A C B Y T N G W U M P D  
 P. perpusilla N

P. sp. (a) (aff. P. macrodon but) E H C T G U M  
 (CVs not so deeply toothed, fls not scented, and corolla tube much shorter, only 3-4 mm long and < 2 x calyx lobes)

Psychrophila obtusa [Caltha obtusa] E S V F R H A C B Y T N G W U M P D







<i>S. haastii</i> agg.	KES	VERHA	BYT	G	U	PD
<i>S. haastii</i> ss.	KE			G	U	
<i>S. sp.(n)</i> [ <i>S. haastii</i> var. <i>cyanopetalum</i> ]	ES		T		UMP	
<i>S. hydrocotyloides</i>				G		PD
<i>S. nitens</i>	S	F	A	Y	T	
<i>S. trifoliolatum</i>	E	FR		Y	T	D
<i>Scleranthus brockiei</i>	E	FR	RH	B	T	NGWUMD
<i>S. uniflorus</i>	KE	S	RHAC	BYT	NGWUM	PD
<i>Sellera microphylla</i> [ <i>S. radicans</i> in part]	KE	S	A	T		P
<i>Stackhouseia minima</i>	S					MPD
<i>Stellaria decipiens</i> s.l. (incl. <i>S. parviflora</i> )	L	ES	FRAC	Y	T	NGWU
<i>S. elatinooides</i>						PD
<i>S. gracilentata</i>	KE	S	FRHAC	BYT	NGWUM	PD
<i>S. toughii</i>	E	S				PD
<i>Tetrachondra hamiltonii</i>		S				NGWUM
<i>Urtica aspera</i>				N		
<i>U. incisa</i>	K	E	FR	Y	T	GW
	L			Y	T	GU
<i>Utricularia novae-zelandiae</i> [ <i>U. novae-zelandiae</i> and <i>U. monanthos</i> ]	E	S				NG
						U
						PD
<i>Viola cunninghamii</i>	L	KE	S	FRHAC	BYT	NGWUM
<i>V. filicaulis</i>	L	KE	S	FRH	Y	T
<i>V. lyallii</i>		S				GU
<i>Wahlenbergia albomarginata</i> var. <i>albomarginata</i> s.l. (incl. <i>W. brockiei</i> and <i>W. pygmaea</i> var. <i>laxa</i> )	L	KE	S	FRHAC	BYT	NGWUM
						PD
<i>W. colensoi</i> / <i>W. rupestris</i>	L	KE		RH	C	BYT
						GW
						MP
						DO

DOUBTFUL AND ERRONEOUS RECORDS NOT INCLUDED IN MAIN LIST

RECORD

DICOTYLEDONOUS TREES AND SHRUBS

- Brachyglottis rotundifolia var. (b) (incl. B. eleagnifolia) - Brachyglottis rotundifolia var. (a) (incl. B. buchananii and B. cockaynei)  
 (Buchanan 1869, Poppelwell 1915, Simpson and Thomson 1926, and Wurdle 1956, as Senecio eleagnifolia)  
 Carmichaelia sp. (subgenus Carmichaelia) (Poppelwell 1915, as C. robusta; Dickinson 1989, as C. violacea)  
 Coprosma microcarpa (Mark et al. 1989)  
 C. parviflora (many authors)  
 C. repens (many authors)  
 Gaultheria rupestris (many authors)  
 Hebe atmshengii (Poppelwell 1915, as Veronica atms-  
 strongii)  
 H. chazsomanii (the type loc. is given as Mt Alta but this appears to be an error; we have been unable to locate the species there)  
 H. ciliolata (Buchanan 1882, as Mitrasacme hookeri; Cheeseman, 1906 and 1925, as Veronica gilliesiana)  
 H. pinguiifolia (Poppelwell 1915, as Veronica pingifolia; Mark and Adam, 1973; Mark et al. 1989)  
 H. tetraslecha (Wurdle 1956)  
 H. traversii (Petrie 1896 and Poppelwell 1915, as Veronica traversii and/or H. subalpina)  
 Helichrysum parvifolium (Petrie 1896, as Ozothamnus microphyllum)  
 Melicytus crassifolius (Petrie 1896, as Hymenanthera crassifolia)  
 Carmichaelia petriei  
 Coprosma sp. (a)  
 C. niphophila and/or C. perpusilla  
 Gaultheria crassa  
 Chionohebe densifolia  
 H. biggatic  
 H. frakataensis and/or H. subalpina  
 Helichrysum intermedium var. intermedium  
 Melicytus alpinus agg.

PROBABLE IDENTITY OF PLANT ON WHICH RECORD BASED

## [RECORD

## PROBABLE IDENTITY OF PLANT ON WHICH RECORD BASED

- M. sp. (d) (Simpson and Thomson, 1926, as *Hymenanthera angustifolia*) - - - *M. alpinus* agg.  
*Olearia virgata* (Pettie 1896, Poppelwell, 1913 and 1915, Simpson and Thomson, 1926, and Wardle 1956) - - - *Olearia lineata*  
*Pimelea quida* (Poppelwell 1915 and Cheeseman 1925) - - - *Pimelea poppelwellii*  
*P. lyallii* (Pettie 1896, and Wardle 1956) - - - *P. oreophila*  
*P. pseudolyallii* (Brumley et al. 1986, Dickinson, 1988 and 1989, and Mark et al. 1989) - - - *P. oreophila*  
*P. saticeovillosa* (Pettie 1896, Cheeseman, 1906 and 1925, Poppelwell 1915, and Cockayne 1928)  
*Pseudopanax colensoi* (many authors) - - - *Pseudopanax* sp.(d)  
*Pseudopanax colensoi* (many authors) - - - *Pseudopanax* sp.(d)

## [DICOTYLEDONOUS LIANES AND RELATED TRAILING PLANTS]

- Clematis-forsteri* (Mark et al. 1989)  
*Rubus australis* (Poppelwell, 1915 and 1920, and Dickin-son 1989) - - - *Rubus cissoides* var.(d)  
*R. squarrosus* (Dickinson 1988) - - - *R. schmidtioides* (juvenile)

## [PSILOPOIDS, LYCOPODS, AND QUILLWORTS]

- Lycopodium laterale* (Poppelwell 1920, as *L. lamulosum*)

## [FERNS]

- Hymenophyllum revolutum* (Poppelwell 1913)  
*Pellaea falcata* (Johnson 1985, Brumley et al. 1986, and Partridge et al. 1991) - - - *Pellaea calditropium*

## [NONCOTYLEDONOUS HERBS]

## [ORCHIDS]

- Corybas rotundifolius* (Poppelwell 1915, as *Corysanthes rotundifolia*)

RECORD

PROBABLE IDENTITY OF PLANT ON WHICH RECORD BASED

Pterostylis montana (Mark et al. 1989) - - - - Pterostylis sp.(b)

GRASSES

Agrostis oresbia (Edgar and Forde, 1991, record this sp. as having been collected from Navis V. by D. Petrie, but treat the locality as doubtful since the specimen "matches North I. specimens in all respects")

A. subulata (Petrie 1896, as Anuellaria; Cockayne 1928, - Agrostis muelleriana Wardle 1956, Billings and Mark, 1961, Mark and Bliss, 1970, Brumley et al. 1986, Dickinson, 1988 and 1989, Mark et al. 1989, and Wardle 1991)

Mark 1965,

Chionochoa flavescens (Toppelwell, 1913, 1915, and 1920, - Chionochoa maeta and/or C. rigida Simpson and Thomson, 1926, Wardle 1956, and Billings and Mark, 1961)

Deyeuxia quadrisetata (Petrie 1896)

Poa dipsacoides (N.C. Simpson, pers. comm. in Dickinson 1989)

P. foliosa (Buchanan 1869 and Petrie 1896) - - - - Poa novae-zelandiae and/or P. subvestita

Trisetum antarcticum (Wardle 1956, Brumley et al. 1986, Trisetum sp.(a) and/or T. sp.(b) Dickinson, 1988 and 1989, and Mark et al. 1989)

SEDGES

Carex raculii (Johnson 1985, Partridge et al. 1991)  
C. tetanaria (Petrie 1896, and Toppelwell, 1913, 1915, and - C. coriacea 1920)

PROBABLE IDENTITY OF PLANT ON WHICH RECORD BASEDRECORD

*Gahnia procera* (Poppelwell 1915, and WG Lee, pers. comm. in Mark et al. 1989)

*Uncinia banksii* (Hamlin 1959)

*U. nervosa* (Dickinson 1988) ----- *Ucinia* sp. (a)

RUSHES AND ALLIED PLANTS

*Juncus pauciflorus* (Poppelwell 1915)

*Luzula banksiana* (Dickinson 1988)

MONOCOTYLEDONOUS HERBS OTHER THAN ORCHIDSGRASSES, SEDGES, RUSHES AND ALLIED PLANTS

*Bulbinella hookeri* (Petrie 1896, as *Anthericum* ----- *Bulbinella angustifolia* hookeri; Simpson and Thomson, 1926, and Cockayne 1928, as *Chrysobacton hookeri*; Poppelwell 1913; Poppelwell 1915, as *Chrysobacton hookeri*)

DICOTYLEDONOUS HERBSCOMPOSITES

*Abrotanella linearis* (Bumley et al. 1986)

*Anaphalis trinervis* (Poppelwell, 1913 and 1915, as

*Gnaphalium trinerve*)

*Celmisia alpina* (Poppelwell, 1913 and 1915, as *C. longi* ----- *Celmisia* sp. (c) f. (a) folia var. alpina; Bumley et al. 1986, Dickinson, 1988 and 1989, and Mark et al. 1989)

*C. coriacea* (Poppelwell 1915, as *C. coriacea* and as *C.* ----- *C. montoi* ssp. (c) lanceolata; Cockayne 1928)

*C. incana* (Buchanan 1869; Petrie 1896, as *C. discolor*; *C. Sinclairii*

Poppelwell 1913, Poppelwell 1915, as *C. discolor*, as *C. discolor* var. *intermedia*, and as *C. viviana*; Poppelwell 1920, as *C. discolor*)

PROBABLE IDENTITY OF PLANT ON WHICH RECORD BASED

Brumley et al. 1986,

RECORD

- C. petriei* (?) (Poppelwell 1915 and Cheese-man 1925)  
*C. spectabilis* (?) (Poppelwell 1913)  
*C. verbascifolia* ssp. *mambianacea* (Poppelwell 1915, - *C. verbascifolia* ssp. *verbascifolia* as *C. petiolata* var. *mambianacea*)  
*Claspedia minor* (Simpson and Thomson, 1926, as  
*C. uniflora* var. *minor*, Dickinson 1988)  
*C. uniflora* (Poppelwell, 1915 and 1920, Cockayne 1928, Wardle 1956, Billings and Mark, 1961, McIntosh and Lee, 1986, Dickinson, 1988 and 1989, and Mark et al. 1989)  
*Gnaphalium paludosum* (Pettie 1896, Kirk 1899, Poppelwell, 1913 and 1915, Johnson 1985, and Partridge et al. 1991)  
*Haastia sinclairii* (Buchanan 1869, Cockayne 1928, - *Haastia* sp. (a) Brumley et al. 1986, Mark et al. 1989, and Wardle 1991)  
*Lapinalla dioica* (Poppelwell 1915, as *Cotula dioica*)  
*L. pyrrhithifolia* (Poppelwell 1915, as *Cotula pyrrhithifolia*) - *Lapinella pectinata* ssp. *villosa*  
*L. squalida* (Pettie 1896 and Dickinson 1988, as *Cotula* - *L. sp.* (b) and/or *L. sp.* (c) *squalida*; Mark et al. 1989)  
*Raoulia bryoides* (Pettie 1896, Kirk 1899, and Cheese-man, 1906 and 1925) - *Raoulia* sp. (g)  
*R. eximia* (Mark 1965)  
*R. cf. mamillaris* (Brumley et al. 1986, and Wardle 1991) - *R. sp.* (g)  
*Senecio glaucophyllus* (Brumley et al. 1986) - *Senecio* sp. (a)  
*S. lautus* (Pettie 1896 and Brumley et al. 1986) - *S. sp.* (a)  
*S. scaberulus* (Poppelwell 1915, as *Erechtites scaberula*)

Brumley et al. 1986,

Mark 1965,

RECORDPROBABLE IDENTITY OF PLANT ON WHICH RECORD BASEDDICOTYLEDONOUS HERBS OTHER THAN COMPOSITES

*Acaena magellanica* (Pettie 1896, as *A. adscendens*)

- Aciphylla dobsonii* (Cheeseman 1925, Oliver 1956, - - *Aciphylla simplex* and Mark and Bliss, 1970)
- A. horrida* (Oliver 1956, ~~1978~~ Dawson and Le Comte, 1978) *A. sp. (d)*, and *Brumley et al. 1986*
- A. montei* (Buchanan 1869, Pettie 1896, and Poppel ~~A.~~ *A. lecomtei* wall, 1913 and 1915)
- A. similis* (Cheeseman 1925, Simpson and Thomson, 1926, Cock - - *A. lecomtei*ayne 1928, Oliver 1956, ~~1970~~ Mark and Bliss, 1970) *B. Brumley et al. 1986, and Wardle 1991*
- A. squarrosa* (Poppelwall 1915, Simpson and Thomson, 1926, Cock - - *A. glaucescens* 1926, and *Brumley et al. 1986*)
- A. takahaea* (Oliver 1956, Allan 1961)
- Anisotome* sp. (b) (described as *A. imbricata* var. *prostrata*) (Mark and Bliss, 1970, *Brumley et al. 1986*, Dickinson, 1988 and 1989, and Mark et al. 1989)
- Cardamine depressa* (Pettie 1896, Poppelwall 1915, and Mark and Bliss, 1970) (*Buchanan 1882*)
- Chionochoe pulvinatis* (Buchanan 1869, Pettie 1896, and Poppelwall 1915, as *Rhynchos pulvinatis*; *Brumley et al. 1986*)
- Colobanthus acicularis* (Buchanan 1869, Poppelwall - *Colobanthus buchananii* 1915, Wardle 1956, Mark and Bliss, 1970, McIntosh and Lee, 1986, *Brumley et al. 1986*, and Mark et al. 1989)
- C. canaliculatus* (*Brumley et al. 1986*, and Dickinson, - - *C. buchananii* 1988 and 1989)

RECORD  
 PROBABLE IDENTITY OF PLANT ON WHICH RECORD BASED

- C. muelleri* (Simpson and Thomson, 1926) - - - - - *C. strictus*  
*Clasula huiua* (Dickinson 1989, as *C. pusilla*)  
*C. sieberiana* (Williams 1980, Johnson 1985, and Dickinson 1988, as *Tillaea sieberiana*; Brumley et al. 1986, Dickinson 1989, and Partridge et al. 1991) - - - - - *Clasula tetramera*
- Epilobium bilkudierianum* (Brumley et al. 1986)
- E. confertifolium* (Pettie 1896)  
*E. pedunculata* (Wardle 1956) - - - - - *Epilobium* sp.(a)  
*E. pedunculata* (Dickinson, 1988 and 1989, Mark et al. 1989, and Partridge et al. 1991) - - - - - *E. limnacooides*
- E. tubromarginatum* (Brumley et al. 1986)  
*Euphrasia cockayneana* (Brumley et al. 1986)  
*E. petrii* (Mark and Bliss, 1970, Brumley et al. 1986, Dickinson 1989, and Mark et al. 1989) - - - - - *Euphrasia* sp. (c)  
*E. revoluta* (Buchanan 1869, Pettie 1896, Dickinson 1989, and Mark et al. 1987)
- Forstera bidwillii* (Poppelwell, 1915 and 1920, and Simpson and Thomson, 1926)  
*Gentiana lineata* (Poppelwell 1915)  
*G. montana* (incl. *G. patula*) (Simpson and Thomson, 1926, Wardle 1956, Brumley et al. 1986, Dickinson 1989, Mark et al. 1989)  
*G. saxosa* (Buchanan 1869)  
*G. tenuifolia* (Cheeseman 1925) - - - - - *Gentiana serotina*  
*G. tereticaulis* (Simpson and Thomson, 1926)  
*G. ? townsonii* (Dickinson 1989)  
*Geranium microphyllum* (many authors) - - - - - *Geranium* sp.(c)  
*Gunnata menziesii* (Poppelwell 1915, as *G. huxta*)



## RECORD

## PROBABLE IDENTITY OF PLANT ON WHICH RECORD BASED

*Kelleria lyallii* (Buchanan 1869, Petrie 1896, Cheeseman 1906, Poppelwell, 1913, 1915, and 1920, Cockayne 1928, Wardle 1956, Billings and Mark, 1961, Mark and Bliss, 1970, and Bromley et al. 1986, as *Drapetes lyallii*)

Mark 1965,

*Lilaeopsis novae-zealandiae* (Flabard and Wilson, 1988)

*Mitrasacme novae-zealandiae* (Buchanan 1869)

*Nyosotis antarctica* (Petrie 1896)

*M. traversii* (Bromley et al. 1988)

*Nertera dichondrifolia* (Poppelwell 1915, and Dickinson, Nertera sp. (a) 1988 and 1989)

*Plantago triantha* (Petrie 1896 and Poppelwell 1915, as *P. brownii*)

*Pratia macledon* (Petrie 1896, Cheeseman, 1906 and Pratia sp. (a) 1925, Mark and Bliss, 1970, Bromley et al. 1986, Dickinson, 1988 and 1989, and Mark et al. 1989)

*Psychophila novae-zealandiae* (Buchanan 1875, Petrie 1896, Poppelwell, 1913 and 1915, and Simpson and Thomson, 1926, as *Callia novae-zealandiae*)

*Ranunculus brevis* (Petrie 1896, as *R. depressus*)

*R. brevis* (Randle and Murray, 1989)

*Ranunculus maculatus*

*R. berggrenii*

RECORD

PROBABLE IDENTITY OF PLANT ON WHICH RECORD BASED

*R. enysii* (Fisher 1965, Mark and Bliss, 1970, Brumley et al. 1986, and Dickinson, 1988 and 1989)

*R. berggrenii*

*R. multiscapus* (Poppelwell, 1915 and 1920, Simpson and Thomson, 1926, McIntosh and Lee, 1986, and Mark et al. 1989)

R. sp. (c)

*Schizothelma reniforme* (Petrie 1896, as *Pozoa reniformis*)

*Schizothelma laastii* agg.

*Scleranthus biflorus* (Poppelwell 1915, Billings and Mark, 1961, and Brumley et al. 1986)

*Selliota radicans* (Petrie 1896, Allan 1961, Johnson 1985, and Partridge et al. 1991)

*Sellera microphylla*

*Wahlenbergia gracilis* (Poppelwell, 1913, 1915, and 1920, Simpson and Thomson, 1926, Johnson 1985, Brumley et al. 1986, and Partridge et al. 1991)

*Wahlenbergia rupestris*

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