



CONSERVATION
TE PAPA ATAWHAI

CONSERVATION ADVISORY SCIENCE NOTES

No. 64

THREATENED AND LOCAL PLANTS IN SOUTHLAND AND OTAGO : INCLUDING NATIONAL DISTRIBUTION

(Short Answers in Conservation Science)

This report is published by Head Office, Department of Conservation, and presents the results of scientific services or advice purchased from a consultant outside the Department or provided by Departmental scientific staff. All enquiries should be addressed to the CAS Coordinator, S&R Division.

Department of Conservation, P O Box 10-420, Wellington, New Zealand



ISSN 1171-9834

© 1994 Department of Conservation

Reference to material in this report should be cited thus:

Johnson, P.N., 1994.

Threatened and local plants in Southland and Otago : including national distribution.

Conservation Advisory Science Notes No. 64, Department of Conservation, Wellington. 16p.

Commissioned by: Southland Conservancy
Location: NZMS

Threatened and local plants in Southland and Otago

P.N. Johnson

Threatened and local plants in

Southland and Otago

P.N.Johnson

Landcare Research
Private Bag 1930
Dunedin

Landcare Research Contract Report LC9394/60

PREPARED FOR:
Department of Conservation
P.O. Box 743
Invercargill

November 1993, revised January 1994

Introduction

These lists of threatened and local plants have been prepared primarily to assist Department of Conservation, Southland Conservancy with developing conservation management strategies. Secondly they are a contribution to a workshop on Southland rare plants to be held in Te Anau in December 1993. Threatened plants of Otago Conservancy have been included also, for comparative purposes, and to provide also for the needs of DOC in that region.

The plants listed are those classified as threatened or local on a national level, and which occur within the Southland and Otago Conservancies of the Department of Conservation. Candidate taxa and their assignment to threat categories are based on the 1993 Revision of New Zealand Threatened and Local Plant Lists (Cameron et al., June 1993, New Zealand Botanical Society Newsletter 32: 14-28).

Occurrence of these plant taxa within Otago and Southland is based on previously assembled lists, the Landcare Research Threatened Plants Database, site records held at Landcare Research, Dunedin, and recent field observations by the author and by Brian Rance, DOC, Invercargill.

This report comprises:

Table 1. An alphabetical listing of threatened and local plants of Southland and Otago.

Table 2. A listing by threat categories of threatened and local plants of Southland.

Note on January 1994 revision:

Additions and corrections have been made to distribution notes for conservancies other than Otago and Southland, based on comments supplied by Peter de Lange, DoC, Auckland. Amendments to Otago and Southland listings are:

Hypolepis amaurorachis added to Otago, on basis of Druce, Harris Mts collection, and a Catlins record (P. de Lange pers. comm.)

Ischnocarpus novae-zelandiae added to Southland (Upper Dome Burn, Garvie Mts).

Swainsona novae-zelandiae removed from Southland list, listed in error.

Urtica linearifolia removed from Southland list, listed in error, southernmost CHR record is Lake Tuakitoto, Otago.

Table 1 Threatened and local plants of Southland and Otago

KEYS TO ABBREVIATIONS IN COLUMNS A - E:

A. THREAT CATEGORIES

Ex = Extinct I = Insufficiently Known
 E = Endangered T = Taxonomically Indeterminate
 V = Vulnerable L = Local
 R = Rare

B. DISTRIBUTION IN OTAGO AND SOUTHLAND CONSERVANCIES

O = Otago
 S = Southland

C. DISTRIBUTION IN OTHER DOC CONSERVANCIES

These are listed to highlight those taxa believed to occur only or mainly in Otago and Southland. Note that some inaccuracies may be present in this wider distribution data, arising mainly from uncertainties in ascribing certain herbarium collection records precisely to conservancies.

AU = Auckland NM = Nelson / Marlborough
 BP = Bay of Plenty TT = Tongariro / Taupo
 CA = Canterbury WC = West Coast
 EC = East Coast WG = Wanganui
 HB = Hawkes Bay WK = Waikato
 NL = Northland WL = Wellington

() indicates historic, not current occurrence

D. PRIORITY CATEGORIES FOR CONSERVATION ACTION

(From Molloy & Davis, 1992: Setting priorities for the conservation of New Zealand's threatened plants and animals. Department of Conservation, 44p.)

A = Highest priority threatened species
 B = Second priority threatened species
 C = Third priority threatened species
 X = Species which have not been sighted for a number of years but which may still exist
 I = Species about which little information exists, but based on existing evidence, are considered to be threatened
 O = Species which are threatened in New Zealand but which are known to be secure in other parts of their range outside New Zealand

E. FOOTNOTES (Refer to end of list)

		A	B	C	D	E
<i>Acaena pallida</i>	Rosaceae	L	OS	WL.	B	
<i>Aciphylla leighii</i>	Apiaceae	I	S			
<i>Aciphylla montana</i> var. <i>gracilis</i>	Apiaceae	L	O	CA.		
<i>Aciphylla stannensis</i>	Apiaceae	L	S			1,3
<i>Alepis favida</i>	Loranthaceae	V	OS	TT.HB.(WL). NM.WC.CA.		3
<i>Anisotome acutifolia</i>	Apiaceae	R	S			2
<i>Anogramma leptophylla</i>	Gymnogrammaceae	R	O	NL.AU.HB.WL.CA.		
<i>Atriplex billardieri</i>	Chenopodiaceae	E	OS	NL.CA.	A	1,3
<i>Austrofestuca littoralis</i>	Poaceae	R	OS	NL.AU.WK.BP. EC.WL.NM.CA.		3
<i>Brachyglottis bifistulosa</i>	Asteraceae	L	S			3
<i>Brachyglottis sciadophila</i>	Asteraceae	L	OS	NM.CA.		3,4
<i>Brachyglottis southlandica</i> var. <i>albidula</i>	Asteraceae	I	S			3
<i>Brachyscome humilis</i>	Asteraceae	R	O			
<i>Brachyscome linearis</i>	Asteraceae	R	S			
<i>Cardamine "Tarn"</i>	Brassicaceae	TE	OS	NM.CA.		3
<i>Carex allanii</i>	Cyperaceae	TI	O			3
<i>Carex edgariae</i>	Cyperaceae	L	OS			
<i>Carex inopinata</i>	Cyperaceae	E	O	NM.CA.	A	
<i>Carex kirkii</i> var. <i>elatior</i>	Cyperaceae	R	O	NM.		
<i>Carmichaelia compacta</i>	Fabaceae	R	O			
<i>Carmichaelia curta</i>	Fabaceae	R	O	CA.		
<i>Carmichaelia hollowayii</i>	Fabaceae	R	O	CA.		
<i>Carmichaelia kirkii</i> s.l.	Fabaceae	E	O	NMCA	B	3
<i>Carmichaelia nigrans</i>	Fabaceae	TR	O	WC.		3
<i>Celmisia haastii</i> var. <i>tomentosa</i>	Asteraceae	L	O			
<i>Celmisia hookeri</i>	Asteraceae	L	OS			

		A	B	C	D	E
<i>Celmisia inaccessa</i>	Asteraceae	L	S			3
<i>Celmisia philocremna</i>	Asteraceae	R	S			3
<i>Celmisia spedenii</i>	Asteraceae	R	S			
<i>Celmisia thomsonii</i>	Asteraceae	R	S			
<i>Centipeda minima</i>	Asteraceae	I	O	NL.AU.WK.BP. WG.HB.WL.NM. WC.CA.		
<i>Centrolepis minima</i>	Centrolepidaceae	L	S	WC.CA.		
<i>Ceratocephalus pungens</i>	Ranunculaceae	L	O	CA.		
<i>Cheesemania wallii</i>	Brassicaceae	L	S			
<i>Chenopodium detestans</i>	Chenopodiaceae	I	O	NM.CA.		
<i>Chenopodium pusillum</i>	Chenopodiaceae	I	O	TT.EC.NM. CA.	X	4
<i>Chionochloa lanca</i>	Poaceae	L	S			1,3
<i>Chionochloa spiralis</i>	Poaceae	V	S		B	
<i>Chionohebe glabra</i>	Scrophulariaceae	TR	OS			3
<i>Chionohebe myosotoides</i>	Scrophulariaceae	I	O			3
<i>Coriaria "Rimutaka"</i>	Coriariaceae	I	S	WL.		1,3
<i>Corybas cryptanthus</i>	Orchidaceae	L	S	NL.AU.TT. WG.WL.NM.		
<i>Craspedia "Kaitorete"</i>	Asteraceae	TE	O			3
<i>Crassula multicaulis</i>	Crassulaceae	L	OS	NMCA		3
<i>Crassula peduncularis</i>	Crassulaceae	V	O	EC.WL.CA.		3
<i>Crassula ruamahanga</i>	Crassulaceae	R	OS	WL.WC.CA.		3
<i>Deschampsia caespitosa</i>	Poaceae	V	OS	(WK.)HB.WL. I NM.WC.CA.		
<i>Deschampsia pusilla</i>	Poaceae	I	O			
<i>Desmoschoenus spiralis</i>	Cyperaceae	L	OS	NL.AU.WK. BP.EC.WG. HB.WL. NM.WC.CA.		
<i>Epilobium purpuratum</i>	Onagraceae	R	OS	CA.		

		A	B	C	DE
<i>Euphorbia glauca</i>	Euphorbiaceae	V	OS	NL.AU.WK. BP.WL.NM. WC.CA.	B
<i>Gentiana antipoda</i>	Gentianaceae	R	S		2
<i>Gentiana gibbsii</i>	Gentianaceae	L	S		1
<i>Gentiana lilliputiana</i>	Gentianaceae	L	O	CA.	3
<i>Geum pusillum</i>	Rosaceae	R	OS		
<i>Gratiola nana</i>	Scrophulariaceae	R	OS	NL.AU.WK. WG.HB.WL. NMWCCA	
<i>Gunnera hamiltonii</i>	Gunneraceae	E	S		A
<i>Hebe annulata</i>	Scrophulariaceae	I	S		
<i>Hebe biggarii</i>	Scrophulariaceae	L	S		
<i>Hebe cupressoides</i>	Scrophulariaceae	E	O	NM.CA.	B
<i>Hebe imbricata</i>	Scrophulariaceae	I	S		
<i>Hebe matthewsii</i>	Scrophulariaceae	I	S		
<i>Hebe murrellii</i>	Scrophulariaceae	L	S		
<i>Hebe "Takahe"</i>	Scrophulariaceae	I	S		3
<i>Helichrysum intermedium</i> 'var . tumidum"	Asteraceae	L	O		3
<i>Hydatella inconspicua</i>	Hydatellaceae	V	S	NL.	A
<i>Hypolepis amaurobachis</i>	Dennstaedtiaceae	L	OS		3
<i>Ileostylus micranthus</i>	Loranthaceae	L	OS	NL.AU.WK.BP. TT.EC.HB.WG. WL.NM.WC.CA.	3
<i>Iphigenia novae-zelandiae</i>	Colchicaceae	R	OS	HB.CA.	
<i>Ischnocarpus novae-zelandiae</i>	Brassicaceae	I	OS	NM.CA.	
<i>Isolepis basilaris</i>	Cyperaceae	I	OS	HB.WL.NM. WC.CA.	3
<i>Iti lacustris</i>	Brassicaceae	R	S		B 3
<i>Lepidium kirkii</i>	Brassicaceae	E	O		A
<i>Lepidium oleraceum</i>	Brassicaceae	V	OS	NL.AU.WK. BP.WG.NM. WC.CA.	B

		A	B	C	DE
<i>Lepidium sisymbrioides</i> subsp. <i>kawarau</i>	Brassicaceae	V	O		
<i>Lepidium sisymbrioides</i> subsp. <i>matau</i>	Brassicaceae	E	O		A
<i>Lepidium tenuicaule</i>	Brassicaceae	R	OS	WL.	
<i>Leptinella albida</i>	Asteraceae	R	O		3
<i>Leptinella</i> "Clutha"	Asteraceae	TE	O		3
<i>Libertia peregrinans</i>	Iridaceae	I	OS	WK.TT.WG.HB. WL.NM.WC.	
<i>Limosella curdieana</i>	Scrophulariaceae	I	O		
<i>Luzula crenulata</i>	Juncaceae	R	O		
<i>Mazus novaezeelandiae</i>	Scrophulariaceae	V	O	NL.WK.EC.WG. WL.CA.	3
<i>Melicytus</i> "flexuose"	Violaceae	V	OS	WK.TT.WG. NM.CA.WC.	3
<i>Microlaena thompsonii</i>	Poaceae	I	OS	WC.	
<i>Muehlenbeckia ephedroides</i>	Polygonaceae	I	OS	TT.WG.HB. WL.NM.CA.	
<i>Myosotis albosericca</i>	Boraginaceae	V	O		B
<i>Myosotis cheesemanii</i>	Boraginaceae	I	O		
<i>Myosotis glabrescens</i>	Boraginaceae	I	O		
<i>Myosotis</i> "glauca"	Boraginaceae	I	OS	WL.	3
<i>Myosotis oreophila</i>	Boraginaceae	V	O		
<i>Myosurus minimus</i> subsp. <i>novae-zelandiae</i>	Ranunculaceae	R	OS	WL.NM.CA.	B 3
<i>Myriophyllum robustum</i>	Haloragaceae	R	S	NL.WK.BP. (WL.)WC.	B
<i>Olearia fragrantissima</i>	Asteraceae	I	OS	CA.	
<i>Olearia hectorii</i>	Asteraceae	E	OS	WG.(HB.)WL. NM.	A
<i>Ourisia modesta</i>	Scrophulariaceae	R	S	HB.WC.NM.	
<i>Ourisia spathulata</i>	Scrophulariaceae	L	OS		3
<i>Peraxilla colensoi</i>	Loranthaceae	V	OS	WK.EC.TT. HB.NM.CA.	3

		A	B	C	D	E
<i>Peraxilla tetrapetala</i>	Loranthaceae	V	OS	NL.AU.WK.BP. TT.EC.HB. WG.WL. NM.WC.CA.		3
<i>Pimelea arenaria</i>	Thymeleaceae	R	O	NL.AU.WK. WG.WL.NM. CA.		4
<i>Pimelea aridula</i> agg.	Thymeleaceae	I	O	TT.HB.WL. NM.CA.		
<i>Pimelea crosbysmithiana</i>	Thymeleaceae	L	S			
<i>Pittosporum obcordatum</i>	Pittosporaceae	V	S	NL.EC.WG. HB.WL.CA.	B	
<i>Plantago obconica</i>	Plantaginaceae	R	O	NM.CA.		3
<i>Pleurosorus rutifolius</i>	Aspleniaceae	L	O	HB.WL.NM. CA.		
<i>Poa aucklandica</i> subsp. <i>rakiura</i>	Poaceae	R	S			1,3
<i>Poa pygmaea</i>	Poaceae	L	O			
<i>Poa senex</i>	Poaceae	R	OS			3
<i>Pseudognaphalium</i> "compactum"	Asteraceae	TV	OS	NM.CA.		3
<i>Pseudopanax ferox</i>	Araliaceae	L	OS	NL.EC.WL. NM.CA.		
<i>Puccinellia antipoda</i>	Poaceae	R	S			2
<i>Puccinellia</i> "Central Otago"	Poaceae	V	O			3
<i>Pygmaea armstrongii</i>	Scrophulariaceae	TI	O			3
<i>Ranunculus brevis</i>	Ranunculaceae	L	O	NM.CA.		3
<i>Ranunculus haastii</i> subsp. <i>piliferus</i>	Ranunculaceae	L	S			
<i>Ranunculus maculatus</i>	Ranunculaceae	L	OS	CA.		
<i>Ranunculus recens</i> var. <i>lacustris</i>	Ranunculaceae	L	S			
<i>Ranunculus scritchalis</i>	Ranunculaceae	L	S			3
<i>Ranunculus stylosus</i>	Ranunculaceae	L	S			1,3
<i>Ranunculus ternatifolius</i>	Ranunculaceae	R	OS	WL.NM.CA.		

		A	B	C	DE
<i>Ranunculus viridis</i>	Ranunculaceae	R	S		C 1,3
<i>Rytidospenna tenue</i>	Poaceae	R	O		3
<i>Schizeikma cockaynei</i>	Apiaceae	L	OS	NM.	
<i>Senecio dunedinensis</i>	Asteraceae	I	OS	NM.CA.	
<i>Senecio scaberulus</i>	Asteraceae	V	O	NL.AU. adventive: NM.CA.	4
<i>Simplicia laxa</i>	Poaceae	E	O	WL.	I
<i>Sprengelia incarnata</i>	Epacridaceae	L	S		
<i>Stellaria decipiens</i> var. <i>angustata</i>	Caryophyllaceae	R	S		2
<i>Stellaria elatinoides</i>	Caryophyllaceae	Ex	OS	HB.CA.	X
<i>Stilbocarpa lyallii</i>	Araliaceae	R	S		C 1
<i>Stilbocarpa robusta</i>	Araliaceae	R	S		B 2
<i>Stipa petriei</i>	Poaceae	R	O	CA.	
<i>Swainsona novae-zelandiae</i>	Fabaceae	I	O	NM.CA.	
<i>Tetrachondra hamiltonii</i>	Tetrachondraceae	L	OS	HB.WC.	
<i>Teucrium parvifolium</i>	Verbenaceae	I	OS	WK.EC.HB. WL.NM.CA.	
<i>Triglochin palustre</i>	Juncaginaceae	V	O	CA.	O
<i>Tupeia antarctica</i>	Loranthaceae	R	OS	NL.WK.BP. EC.HB.TT. WGNM.WC CA.	
<i>Uncinia purpurata</i>	Cyperaceae	I	OS	CA.	
<i>Urtica linearifolia</i>	Urticaceae	L	O	EC.WG.WL. CA.	

FOOTNOTES

1. Taxa found within Southland DOC Conservancy only on Stewart Island. But note that *Coriaria* "Rimutaka" known also from Rimutaka Range, North Island. *Stilbocarpa lyallii* also on Solander Islands, recorded from Fiordland coast on basis of old records.

2. Taxa found within Southland DOC Conservancy only on Subantarctic Islands, as follows: *Anisotome acutifolia* (Snares), *Gentiana antipoda* (Antipodes), *Puccinellia antipoda* (Antipodes, Aucklands), *Stellaria decipiens* var. *angustata* (Antipodes), *Stilbocarpa robusta* (Snares, Solander Is).

3. Notes on taxa that are of uncertain taxonomic status, are undescribed, have been recently described, or subject to recent name changes.

Aciphylla stannensis Described from Stewart Island by J.W. Dawson (1980), N.Z. Journal of Botany 18:119

Alepis flavida (= *Elytranthe flavida*)

Atriplex billardieri (formerly treated as *Theleophyton billardieri*)

Austrofestuca littoralis (the coastal dune tussock formerly known as *Poa triodioides*)

Brachyglottis bifistulosa (formerly *Senecio bifisulosus*)

Brachyglottis sciadophila (formerly *Senecio sciadophilus*)

Brachyglottis southlandica var. *albidula* (formerly *Senecio southlandicus* var. *albidulus*)

Cardamine "Tarn" A distinct taxon with lanceolate pinnatifid or spatulate leaves. Illustrated by Johnson & Brooke 1989, Wetland Plants in New Zealand, p. 180 - 181.

Carex allanii is listed as taxonomically indeterminate, because of A.P. Druce opinion that it may be the same as *C. enysii*.

Carmichaelia kirkii s.l. (sensu lato - in the broad sense; there is a possibility that more than one taxon of lianoid native brooms might be included here)

Carmichaelia nigrans As with many named native brooms there is uncertainty as to taxonomic status of this one, described from Makarora Valley..

Chionochloa lanea Described from Stewart Island by Connor (1987. N.Z. Journal of Botany 25:165). See also Connor (1991) *Chionochloa* Zotov (Gramineae) in New Zealand. N.Z. Journal of Botany 29:219-283.

Chionohebe glabra Classified thus by M. Heads (1987, Botanical Society of Otago Newsletter No. 5. (= *Veronica thomsonii* var. *glabra*. Otago Central Mts, Garvies.)

Chionohebe myosotoides (= *Pygmaea myosotoides*). See Connor & Edgar (1987) N.N. Journal of Botany 25, p.155.

Coriaria "Rimutaka" Wilson's "Mason's Bay *Coriaria*" from Mason Bay and Ruggedy Beach. Also known from Rimutaka Range. Affinities with *C. plumosa* and *C. pteridoides*. Illustrated p. 265 In Eagle 1982.

Craspedia "Kaitorete" Recognised by A.P. Druce, this differs from *C. lanata* in having off-white flowers. Known from Upper Clutha river flats and Kaitorete Spit.

Crassula multicaulis (= *Tillaea multicaulis*; see Webb et al., Flora of New Zealand, Vol IV, p. 580.

Crassula peduncularis (= *Tillaea purpurata*; see same reference, p. 580)

Crassula ruamahanga (= *Tillaea acutifolia*; see same reference, p. 581.)

Gentiana lilliputiana Described by Webb (1990, N.Z. Journal of Botany 28: 1-3) from alpine bogs and flushes on Kirkliston Range (Canterbury) and Dunstan Mountains (Otago).

Hebe "Takahe" Status uncertain yet but has affinities with *Hebe* Section Subdistichae. Takahe Valley area, Fiordland, on limestone.

Helichrysum intermedium "var. *tumidum*" The whipcord shrub *Helichrysum* from Otago Peninsula, formerly known as *H. selago* var. *tumidum*. The name *H. selago* is based on a hybrid, and although the species name *intermedium* is available, the formal combination of var. *tumidum* within this has not yet been done.

Hypolepis amaurobachis Described as *Hypolepis subantarctica* by Brownsey & Chinnock (1984, N.Z. Journal of Botany 22:43-80) but now known to be the same as *H. amaurobachis* from Victoria and Tasmania. Known in New Zealand from Auckland and Campbell Islands and three coastal sites in Fiordland.

Ileostylus micranthus (= *Loranthus micranthus*)

Isolepis basilaris (= *Scirpus basilaris*)

Iti lacustris Described from Lakes Te Anau and Manapouri by Garnock-Jones & Johnson (1987, N.Z. Journal of Botany 25:603-610.)

Lepidium sisymbrioides subsp. *kauvrau* Treated as *Lepidium kawarau* in Allan's Flora. Webb et al. (Flora of New Zealand, Vol IV, pA35) adopt an earlier treatment, regarding the entity as distinct at subspecies level.

Lepidium sisymbrioides subsp. *matau* = *Lepidium matau*; comment as above.

Lepidium sisymbrioides subsp. *sisymbrioides* NOTE: This subspecies is not listed by Cameron et al in the 1993 Revision of Threatened and Local plants lists. However it does appear in Category I (species about which little information exists) in Molloy & Davis (1992). It is known from inland Canterbury and Otago; more field observation is needed to assess threat status.

Leptinella albida (= *Cotula albida* Lloyd, = *Cotula sericea* in Allan's Flora) Western Central Otago Mountains.

Leptinella "Clutha" An entity recognised by A.P. Druce from Upper Clutha river flats.

Mazus novaezeelandiae Described by W.R. Barker, 1991: A taxonomic revision of *Mazus* Lour, (Scrophulariaceae) in Australasia. In Banks, M.R. et al. (Eds.) Aspects of Tasmanian Botany - A tribute to Winifred Curtis. A New Zealand endemic, formerly placed within *Mazus pumilio*, a species now considered as confined to Australia.

Melicytus "flexuose" An undescribed tall shrub with thin twigs, distinct from another tall "Hymenanthera" (*Melicytus* "Brockie") that is more common through New Zealand, and from the Australian *M. angustifolius*.

Myosotis "glauca" (= *M. pygmaea* var. *glauca*). Considered by A.P. Druce to be distinct at species level, but the formal name change has not been made.

Myosurus minimus subsp. *novae-zeelandiae* Formerly known in New Zealand at specific rank as *Myosurus minimus*. See Garnock Jones (1986) N.Z. Journal of Botany 24:352.

Ourisia spathulata Described by Kalin Arroyo (1984, N.Z. Journal of Botany 22:447-463). Confined to Thompson, Eyre, and Garvie Mountains.

Peraxilla colensoi (= *Elythrante colensoi*)

Peraxilla tetrapetala (= *Elytranthe tetrapetala*)

Plantago obconica Described by Sykes (1988, N.Z. Journal of Botany 26:321) from alpine bogs in Marlborough, Canterbury, and Central Otago. Known in Otago from Harris Mountains and Crown Range.

Poa aucklandica subsp. *rakiura* This subspecies described from Mt Anglem, Stewart Island, by Edgar (1986, N.Z. Journal of Botany 24: p. 467).

Poa senex Described by Edgar (1986, N.Z. Journal of Botany 24: p. 477) from alpine damp ground on Old Man and Pisa Ranges. A.P. Druce includes *P. senex* within an unnamed subspecies of *P. sublimis* with a distribution extending from Old Man Range west to Eyre and Harris Mountains.

Pseudognaphalium "compactum" A relatively short floccose-woolly plant of dried mud and lake edges.

Puccinellia "Central Otago" Low growing wispy grass with flower heads scarcely appearing above leaves. Maniototo and Alexandra area, on salty soils.

Pygmaea armstrongii Taxonomic status doubtful (Hectors Col only - Allan 1961, p. 875)

Ranunculus breois Formerly known by the illegitimate name *Ranunculus depressus*. Described by Garnock Jones (1987, N.Z. Journal of Botany 25:126.)

Ranunculus scritchalis Described by Garnock-Jones (1987, N.Z. Journal of Botany 25:126). Known only from screes, Eyre Mountains.

Ranunculus stylosus Described by Wilson & Garnock-Jones (1983, N.Z. Journal of Botany 21:341, from Tin Range, Stewart Island.

Ranunculus viridis Described by Wilson & Garnock Jones (1983, N.Z. Journal of Botany 21:341, from Tin Range, Stewart Island.

Rytidosperma tenue Formerly *Notodanthonia tenuis*. See Connor & Edgar (1979, N.Z. Journal of Botany 17:321. Known only from Otago: Upper Waipori, Old Man Range, west Lake Mahinerangi, and Flagstaff Hill.

Sprengelia incamata Known from S.E. Australia and Tasmania; recorded for the New Zealand flora by L.B. Moore (1969, N.Z. Journal of Botany 7:96-99.). Known from S.W. Fiordland.

4. Distribution notes for taxa for which presence in Otago/Southland is doubtful:

Brachyglottis sciadophila Southland record doubtful. Listed for Southland by Given in 1989 revised list; Allan (1961) gives distribution to 46 degrees south; no CHR specimens from south of Dunedin.

Chenopodium pusillum Otago record based on B. Patrick collection from Kurow.

Muehlenbeckia ephedroides Southland listing based on CHR specimens from Lake Te Anau and Wairaki River.

Myosurus minimus subsp. *novae-zelandiae* Southland listing based on an old collection from Te Anau.

Pimelea arenaria Otago record based on early collection from Brighton by J.S. Thomson.

Senecio scaberulus Otago record based on early collection; not seen recently.

Table 2 Threatened and local plants of Southland, listed according to threat categories

KEYS TO ABBREVIATIONS IN COLUMNS A-C

A. DOC PRIORITY CATEGORIES

(From Molloy & Davis, 1992: Setting priorities for the conservation of New Zealand's threatened plants and animals. Department of Conservation, 44p.)

A = Highest priority threatened species

B = Second priority threatened species

C = Third priority threatened species

X = Species which have not been sighted for a number of years but which may still exist

I = Species about which little information exists, but based on existing evidence, are considered to be threatened

B. TAXA ALREADY COVERED IN STATUS REPORTS BY SOUTHLAND CONSERVANCY

C. PRIORITY TAXA FOR STATUS REPORT PREPARATION

		A	B	C
EXTINCT				
<i>Stellaria elatinoidea</i>	Caryophyllaceae	X	+	
ENDANGERED				
<i>Atriplex billardieri</i>	Chenopodiaceae	A	+	
<i>Cardamine "Tarp"</i>	Brassicaceae			1
<i>Gunnera hamiltonii</i>	Gunneraceae	A	+	
<i>Olearia hectorii</i>	Asteraceae	A	+	
VULNERABLE				
<i>Alepis flavida</i>	Loranthaceae			
<i>Chionochloa spiralis</i>	Poaceae	B	+	
<i>Deschampsia caespitosa</i>	Poaceae	1		2
<i>Euphorbia glauca</i>	Euphorbiaceae	B	+	
<i>Hydatella inconspicua</i>	Hydatellaceae	A		2
<i>Lepidium oleraceum</i>	Brassicaceae	B	+	
<i>Melicytus "flexuose"</i>	Violaceae			1
<i>Peraxilla colensoi</i>	Loranthaceae			2
<i>Peraxilla tetrapetala</i>	Loranthaceae			2
<i>Pittosporum obcordatum</i>	Pittosporaceae	B	+	
<i>Pseudognaphalium "compactum"</i>	Asteraceae			2

A B C

RARE

<i>Anisotome acutifolia</i>	Apiaceae	+	
<i>Austrofestuca littoralis</i>	Poaceae		3
<i>Brachyscome linearis</i>	Asteraceae		3
<i>Celmisia philocremna</i>	Asteraceae		3
<i>Celmisia spedenii</i>	Asteraceae		3
<i>Celmisia thomsonii</i>	Asteraceae		3
<i>Chionohebe glabra</i>	Scrophulariaceae		3
<i>Crassula ruamahanga</i>	Crassulaceae		3
<i>Epilobium purpuratum</i>	Onagraceae		3
<i>Gentiana antipoda</i>	Gentianaceae		3
<i>Geum pusillum</i>	Rosaceae		3
<i>Gratiola nana</i>	Scrophulariaceae		3
<i>Iphigenia novae-zelandiae</i>	Colchicaceae		3
<i>Iti lacustris</i>	Brassicaceae	B	+
<i>Lepidium tenuicaule</i>	Brassicaceae		3
<i>Myosurus minimus</i>			
subsp. <i>novae-zelandiae</i>	Ranunculaceae	B	3
<i>Myriophyllum robustum</i>	Haloragaceae	B	+
<i>Ourisia modesta</i>	Scrophulariaceae		3
<i>Poa aucklandica</i>			
subsp. <i>rakiura</i>	Poaceae		3
<i>Poa senex</i>	Poaceae		3
<i>Puccinellia antipoda</i>	Poaceae		3
<i>Ranunculus ternatifolius</i>	Ranunculaceae		3
<i>Ranunculus viridis</i>	Ranunculaceae	C	+
<i>Stellaria decipiens</i>			
var. <i>angustata</i>	Caryophyllaceae		3
<i>Stilbocarpa lyallii</i>	Araliaceae	C	+
<i>Stilbocarpa robusta</i>	Araliaceae	B	+
<i>Tupeia antarctica</i>	Loranthaceae		3

INSUFFICIENTLY KNOWN

<i>Aciphylla leighii</i>	Apiaceae		2
<i>Brachyglottis southlandica</i>			
var. <i>albidula</i>	Asteraceae		2
<i>Coriaria "Rimutaka"</i>	Coriariaceae		3
<i>Hebe annulata</i>	Scrophulariaceae		2
<i>Hebe imbricata</i>	Scrophulariaceae		2
<i>Hebe matthewsii</i>	Scrophulariaceae		2
<i>Hebe "Takahe"</i>	Scrophulariaceae		2
<i>Isolepis basilaris</i>	Cyperaceae		3
<i>Libertia peregrinans</i>	Iridaceae		3
<i>Microlaena thompsonii</i>	Poaceae		3
<i>Muehlenbeckia ephedroides</i>	Polygonaceae		3
<i>Myosotis "glaucua"</i>	Boraginaceae		3
<i>Olearia fragrantissima</i>	Asteraceae		3
<i>Senecio dunedinensis</i>	Asteraceae		3
<i>Teucrium parvifolium</i>	Verbenaceae		3
<i>Uncinia purpurata</i>	Cyperaceae		3

LOCAL

<i>Acaena pallida</i>	Rosaceae	B	+
<i>Aciphylla stannensis</i>	Apiaceae		
<i>Brachyglottis bifistulosa</i>	Asteraceae		
<i>Brachyglottis sciadophila</i>	Asteraceae		
<i>Carex edgariae</i>	Cyperaceae		
<i>Celmisia hookeri</i>	Asteraceae		
<i>Celmisia inaccessa</i>	Asteraceae		
<i>Centrolepis minima</i>	Centrolepidaceae		
<i>Cheesemania wallii</i>	Brassicaceae		
<i>Chionochloa lanea</i>	Poaceae		
<i>Corybas cryptanthus</i>	Orchidaceae		
<i>Crassula multicaulis</i>	Crassulaceae		
<i>Desmoschoenus spiralis</i>	Cyperaceae		
<i>Gentiana gibbsii</i>	Gentianaceae		
<i>Hebe biggarii</i>	Scrophulariaceae		
<i>Hebe murrellii</i>	Scrophulariaceae		
<i>Hypolepis amaurorachis</i>	Dennstaedtiaceae		
<i>Ileostylus micranthus</i>	Loranthaceae		
<i>Ourisia spathulata</i>	Scrophulariaceae		
<i>Pimelea crosbysmithiana</i>	Thymeleaceae		
<i>Pseudopanax ferox</i>	Araliaceae		
<i>Ranunculus haastii</i>			
subsp. <i>piliferus</i>	Ranunculaceae		
<i>Ranunculus maculatus</i>	Ranunculaceae		
<i>Ranunculus recens</i>			
var. <i>lacustris</i>	Ranunculaceae		
<i>Ranunculus scripthalis</i>	Ranunculaceae		
<i>Ranunculus stylosus</i>	Ranunculaceae		
<i>Schizeilema cockaynei</i>	Apiaceae		
<i>Sprengelia incarnata</i>	Epacridaceae		
<i>Tetrachondra hamiltonii</i>	Tetrachondraceae		