

**INDIGENOUS PLANTS
OF THE
UPPER RASTUS BURN**



Ranunculus pachyrrhizus

**Neill Simpson
Queenstown
2022**

PLANTS OF THE UPPER RASTUS BURN and DOOLANS VALLEYS
(compiled by Neill Simpson)

	abundance		
Trees and Shrubs	1 only	Brachyglottis cassinioides	
	o	Coprosma atropurpurea	
	r	Coprosma cheesemanii	
	f	Coprosma niphophila	
	f	Coprosma perpusilla	
	r	Coprosma propinqua	mingimingi
	a	Dracophyllum muscoides	
	o	Dracophyllum pronum	
	r	Dracophyllum prostratum	
	o	Dracophyllum rosmarinifolium	
	o	Gaultheria crassa	koropuka, rock snowberry
	c	Gaultheria depressa var. novaezelandiae	creeping snowberry
	f	Gaultheria nubicola	
	c	Gaultheria parvula	
	o	Hebe buchananii	Veronica buchananii
	c	Hebe epacridea	Veronica epacridea
	o	Hebe hectorii subsp. demissa	Veronica hectorii subsp.
	o	Hebe hectorii subsp. hectorii	Veronica hec. subsp. h
	r	Hebe odora (includes H. anomala)	Veronica odora
	r	Hebe pauciramosa	Veronica pauciramosa
	f	Leucopogon fraserii	mingimingi, mikimiki,
	f	Melicytus alpinus	porcupine shrub
	o	Myrsine nummularia	
	r	Olearia avicenniifolia	akeake
	o	Ozothamnus vauvilliersii	tauhinu, cottonwood
	o	Pentachondra pumila	
	o	Pimelia oreophila subsp. lepta	
	f	Pimelia notia	
	o	Muehlenbeckia axillaris	
Lycopods	o	Huperzia australianum	
	f	Lycopodium fastigiatum	
Ferns	f	Blechnum penna-marina	
		Grammitis poeppigiana	
	f	Polystichum cystostegia	
	f	Polystichum vestitum	
Monocots herbs & orchids	f	Microtis unifolia	
	f	Prasophyllum colensoi	
	r	Thelymitra longifolia	
Grasses	c	Agrostis muelleriana	
	o	Agrostis muscosa	
	f	Agrostis pallescens	

	o	# <i>Agrostis petriei</i>	
	o	<i>Agropyron solandri</i>	
	a	<i>Chionochloa macra</i>	
	c	<i>Chionochloa rigida</i> subsp. <i>rigida</i>	
	f	<i>Deschampsia chapmanii</i>	
		<i>Deyeuxia aucklandica</i>	
		<i>Deyeuxia avenoides</i>	
	r	<i>Festuca mathewsii</i>	
	o	<i>Festuca madida</i>	
	o	<i>Festuca novae-zelandiae</i>	
	o	<i>Hierochloe recurvata</i>	
	o	<i>Koelaria cheesemanii</i>	
	r	<i>Koelaria novozelandica</i>	
		<i>Lachnogrostis lyallii</i>	
		<i>Lachnogrostis uda</i>	
	o	<i>Poa cita</i> var. <i>cita</i>	
	a	<i>Poa colensoi</i> (3)	
	o	<i>Poa kirkii</i>	
	o	<i>Poa lindsayii</i>	
	o	<i>Poa novae-zelandiae</i>	
	o	<i>Poa tonsa</i>	
	r	<i>Poa schistaceus</i>	
	c	<i>Rytidosperma australe</i>	
		<i>Rytidosperma buchananii</i>	
	a	<i>Rytidosperma pumilum</i>	
	o	<i>Trisetum lepidum</i>	
	o	<i>Trisetum spicatum</i>	
		<i>Trisetum tenellum</i>	
Sedges	r	<i>Carex acicularis</i>	
	r	# <i>Carex allanii</i>	
	c	# <i>Carex berggrenii</i>	
	o	<i>Carex breviculmis</i>	
		<i>Carex comans</i>	maurea
	r	<i>Carex coriacea</i>	rautahi
	f	# <i>Carex edgariae</i>	
		<i>Carex enysii</i>	
	c	<i>Carex gaudichaudiana</i>	
	o	<i>Carex kirkii</i>	
	c	# <i>Carex lachenalii</i> subsp. <i>parkeri</i>	
	c	<i>Carex petriei</i>	
	r	# <i>Carex pterocarpa</i>	
	f	<i>Carex pyrenaica</i> var. <i>cephalotes</i>	
	c	<i>Carex wakatipu</i>	
	o	<i>Carpha alpina</i>	
		<i>Elaeocharis acuta</i>	
	c	<i>Isolepis aucklandica</i>	
		<i>Isolepis caligenis</i>	
	c	<i>Oreobolus pectinatus</i>	

	c	Schoenus pauciflorus	
	f	Uncinia divaricata	
	o	Uncinia drucei	
	c	Uncinia fuscovaginata	
	r	# Uncinia purpurata	
	o	Uncinia sinclairii	
	f	# Uncinia viridis (Carex horizontalis)	
Rushes & allied plants	r	Centrolepis pallida	
	f	Juncus antarcticus	
	c	Juncus novae-zelandiae	
	r	Juncus pusillus	
	r	Luzula colensoi	
		Luzula crinita var. petrieana	
	c	# Luzula leptophylla	
		Luzula migrata	
	c	Luzula pumila	
	c	Luzula rufa var. rufa	
		Luzula sp. (aff. rufa but rhizomatous)	
	r	# Luzula traversii var. tenuis	
	r	Luzula traversii var. traversii	
	u	Marsippospermum gracile	
Monocot. herbs	r	Astelia nivicola	Doolans
Dicot. herbs, composites	c	Abrottenella caespitosa	
	c	Abrottenella inconspicua	
	c	Anaphalioides bellidioides	
	c	Brachyglottis bellidioides	
	u	Brachyglottis southlandica	
	u	Brachyscome longiscapa	
	a	Brachyscome montana	
		Brachyscome radicata	
	o	Celmisia angustifolia	
	r	Celmisia brevifolia	
	f	Celmisia densiflora	
	o	Celmisia glandulosa	
	o	Celmisia gracilentata	pekapeka
	a	Celmisia haastii var. haastii	
	c	Celmisia laricifolia	
	o	Celmisia lyallii	
	f	Celmisia sessiliflora	
	r	# Celmisia sp (aff. gracilentata, strongly rhizomatous)	(not C. graminifolia)
	f	Celmisia sp. (aff. alpina? Common in alpine bogs)	
	o	Celmisia viscosa	
	o	Craspedia lanata	
	o	Craspedia robusta	

	o	Craspedia spp. (several unnamed taxa)	
	o	Dolichoglottis lyallii	
		Euchiton audax	
	c	Euchiton laterale	
	c	Agyrotegium mackayii	
	o	Euchiton traversii	
	f	Haastia sinclairii var. fulvida	
		Helichrysum filicaule	
		Lagenifera cuneata	
		Lagenifera petiolata	
	o	Lagenifera pumila	
	o	# Leptinella albida	
	c	Leptinella goyenii	
	o	Leptinella pectinata var. villosa	
	r	Leucogenes grandiceps	
		Pseudognaphalium luteo-album agg.	
	f	Raoulia apicinigra	
	r	# Raoulia beauverdii	
	a	Raoulia grandiflora	
	c	Raoulia hectorii	
		# Raoulia mollis (R. hectorii var. mollis)	
	r	Raoulia subsericea	
	a	Raoulia subsericea	
	r	Raoulia subulata	
	r	Raoulia tenuicaulis	
	o	Raoulia youngii	
	o	Raoulia sp. (aff. R.bryoides)	
	f	Taraxacum magellanicum	
	r	Vittadinia australis	
Dicot herbs etc	o	Acaena caesiiglauca	
	o	Acaena fissistipula	
	a	Acaena saccaticupula	
	o	Aciphylla aurea	
	a	Aciphylla kirkii	
	f	# Aciphylla lecomtei	
	f	Aciphylla sp. "lomond" (robust, blue-green lvs, short or no stipules,	common)
	f	Aciphylla simplex	
	o	Anisotome aromatica	
	o	Anisotome brevistylis	
	c	Anisotome flexuosa	
	c	Anisotome imbricata	
	c	# Anisotome lanuginosa	
	f	Anisotome sp. (tiny in alpine bogs)	
	o	* Cardamine bilobata	

o	Cardamine corymbosa	
r	Chionohebe ciliolata var. fiordensis	Veronica cil. var. fiord.
c	Chionohebe thomsonii	Veronica thomsonii
f	Colobanthus apetalus	
o	Colobanthus strictus	
	Crassula sinclairii	
	Crassula tetramera	
o	Drosera arcturi	
f	Epilobium atriplicifolium	
f	Epilobium brunnescens	
	Epilobium minutiflorum (E.	
o	brunescens subsp. minutiflorum)	
o	Epilobium chlorifolium	
r	Epilobium cockayneanum	
c	Epilobium komarovianum	
r	Epilobium macropus	
r	Epilobium melanocaulon	
f	Epilobium porphyrium	
c	Epilobium tasmanicum	
c	Euphrasia zelandica	
o	Euphrasia sp. aff. E. petriei	
o	Galium perpusillum	
c	Gentianella amabilis	
o	Gentianella bellidifolia	
o	Gentianella divisa	Doolans
g	# Geranium sp. aff. microphyllum	
o	Geranium sessiliflorum	
f	Geum leiospermum	
r	Geum parviflorum	
r	# Geum pusillum	Doolans
r	Gunnera monoica	
r	Hebejeebie birleyi (now Veronica)	top of Double Cone
f	Hebejeebie densifolia " "	Veronica densifolia
c	Hectorella caespitosa	
	Hydrocotyle novae-zelandiae var.	
c	montana	
c	Kellaria childii	
c	Kellaria dieffenbachii	
c	Kellaria paludosa	
o	Kellaria villosa	
f	Lobelia angulata (Pratia)	
r	Lobelia linnaeoides	
o	Montia fontana	
o	Myosotis drucei	
c	Myosotis pulvinaris	
r	Myosotis bryonoma	
f	Montia sessiliflora	
f	Nertera balfouriana	
	Nertera ciliata	

		Oreomyrrhis colensoi	
		Oreomyrrhis ramosa	
	f	Oreomyrrhis sp. (tiny bog plant)	
	f	Ourisia caespitosa	
	c	Ourisia glandulosa	
	r	Pachycladon novae-zelandiae	
	f	Phyllachne colensoi	
	o	Phyllachne rubra	
	f	Plantago lanigera	
	f	Plantago novae-zelandiae	
	c	Plantago unibracteata	
	c	Caltha obtusa	
	r	Ranunculus buchananii	
	r	Ranunculus cheesemanii	
	o	Ranunculus foliosus	
	c	Ranunculus gracillipes	
	o	# Ranunculus maculatus	
	f	Ranunculus royi	
	c	Schizeilema exiguum	
		Schizeilema haastii var.	
	r	cyanopetalum	
	o	Scleranthus brockiei	
	o	Scleranthus uniflorus	
	o	Stellaria gracilentia	
	f	Viola cunninghamii	
	a	Wahlenbergia albomarginata	
Exotic species	f	Agrostis capillaris	brown top
	o	Anthoxanthum odoratum	sweet vernal
	o	Cerastium fontanum	mouse ear chickweed
	f	Hieracium lepidulum	tussock hawkweed
	f	Hieracium pilosella	mouse ear hawkweed
	o	Holcus lanatus	Yorkshire fog
	f	Hypochaeris radicata	cats ear
	o	Lotus pedunculatus - on road batters	lotus
	o	Rumex acetosella	sheep"s sorrel
	o	Trifolium repens	white clover
Abundance scale: a = abundant; c = common; f = frequent; o = occasional; r =rare			
Doolans = only recorded from Doolans valley. No value = not recorded this survey			

List compiled from many botanical forays to the Remarkables and the mountains of Otago and Southland with a number of professional botanists including Brian Rance and Geoff Rogers but in particular with Tony Druce.

PLANT COMMUNITIES OF THE RASTUS BURN RECREATION RESERVE WITH SPECIES ABUNDANCE

Plant communities showing the most abundant species noted in recce plots during a survey in 2019. $n = 65$ with occurrence and percent.

HERBFIELD, Bryophytes & Lichens			
species	no.	%	notes
Wahlenbergia albomarginata	20	31	
Taraxacum magellanicum	9	14	
Ranunculus royi	8	12	
Uncinia divaricata	8	12	
Bryophytes	29	44	moss species were in all communities
Polytrichum sp.	11	17	most common moss
Racomitrium crispulum	9	14	stony ground and cushionfield
Lichens	20	31	under recorded

TALL TUSSOCK GRASSLAND			
Chionochloa macra	34	52	
Chionochloa rigida	12	18	
Poa colensoi	38	58	
Raoulia grandiflora	25	38	
Raoulia subsericea	24	37	
Epilobium atriplicifolium	14	22	
Lycopodium fastigiatum	14	22	
Anisotome flexuosa	12	18	
Celmisia densiflora	9	14	
Aciphylla sp. "lomond"	8	12	
Huperzia australiana	8	12	
Celmisia gracilentia	7	11	
Geranium microphyllum	7	11	
Geranium sessiliflorum	7	11	
Acaena caesiiglauca	6	9	
Celmisia lyallii	5	8	
SHRUBS			
Ozothamnus vauvilliersii	12	18	
Dracophyllum pronum	11	17	
Dracophyllum rosmarinifolius	10	15	
Pimelia oreophylla	6	9	

EXOTIC SPECIES			
Hieracium lepidulum	16	25	tussock hawkweed
Hieracium pilosella	15	23	mouse ear hawkweed
Hypochaeris radicata	14	22	cats ear
Agrostis capillaris	9	14	brown top
Rumex acetosella	8	12	sheep's sorrel
Anthoxanthum odoratum	5	8	sweet vernal

ROCKFIELD, BLUFF, SCREE, ROCKS			
species	no.	%	notes
Blechnum penna marina	12	18	
Brachyglottis bellidioides	9	14	
Polystichum cystostegia	9	14	
Aciphylla simplex	8	12	
Melicytus alpinus	8	12	
Epilobium porphyrium	7	11	
Hebe epacridea	6	9	
Polystichum vestitum	5	8	
Schizeilema haastii var. cyanopetalum	5	8	
Myrsine nummularia	4	6	
Haastia sinclairii var. fulvida	3	5	
MOST COMMON SPECIES ALL COMMUNITIES			
Species	no.	%	notes
Poa colensoi	38	58	uncommon in wetlands
Chionochloa macra	34	52	
Brachyscome sp. montana	26	40	
Celmisia haastii	25	38	
Raoulia grandiflora	25	38	
Rytidosperma pumila	25	38	
Wahlenbergia albomarginata	25	38	
Acaena saccaticupula	24	37	
Raoulia subsericea	24	37	
Aciphylla kirkii	19	29	

WETLAND SPECIES			
Species	no.	%	notes
<i>Oreobolus pectinatus</i>	19	29	
<i>Plantago lanigera</i>	19	29	
<i>Euchiton laterale</i>	17	26	
<i>Caltha obtusa</i>	16	25	
<i>Luzula leptophylla</i>	15	23	
<i>Carex gaudichaudiana</i>	14	22	
<i>Carex berggrenii</i>	14	22	
<i>Isolepis aucklandicus</i>	14	22	
<i>Schoenus pauciflorus</i>	14	22	
<i>Abrottenella caespitosa</i>	13	20	
<i>Kelleria paludosa</i>	13	20	
<i>Montia sessiliflora</i>	13	20	
<i>Gaultheria parvula</i>	12	18	
<i>Ranunculus gracillipes</i>	12	18	
<i>Plantago unibracteolata</i>	11	17	
<i>Agyrotegium mackayii</i>	11	17	
<i>Plantago novae-zelandiae</i>	10	15	
<i>Carex petriei</i>	10	15	a few of these records were probably <i>C. edgarae</i>
<i>Colobanthus apetalus</i>	9	14	
<i>Deschampsia chapmanii</i>	9	14	
<i>Epilobium komarovianum</i>	9	14	
<i>Lobelia angulata</i>	9	14	
<i>Rytidosperma australe</i>	9	14	
<i>Ourisia caespitosa</i>	9	14	
<i>Coprosma atropurpurea</i>	8	12	
<i>Epilobium brunescens</i>	8	2	
<i>Gentianella amabilis</i>	8	12	
<i>Nertera balfouriana</i>	8	12	
<i>Ranunculus maculatus</i>	8	12	
<i>Celmisia alpina</i> agg.	7	11	
<i>Schizeilema exiguum</i> ,	7	11	Azorella (new generic name)

CUSHIONFIELD SPECIES			
species	no.	%	notes
<i>Poa colensoi</i>	35	58	occurs in most communities
<i>Dracophyllum muscoides</i>	28	43	
<i>Brachyscome</i> sp. <i>montana</i>	26	40	also in herbfields
<i>Luzula pumila</i>	25	38	
<i>Epilobium tasmanicum</i>	21	32	
<i>Chionohebe thompsonii</i> (Veronica)	19	29	
<i>Aciphylla kirkii</i>	19	29	
<i>Hectorella caespitosa</i>	18	28	
<i>Leptinella goyenii</i>	18	28	
<i>Kellaria childii</i>	17	26	
<i>Ourisia glandulosa</i>	17	26	
<i>Hebejeebie densifolia</i> (Veronica)	16	25	
<i>Celmisia laricifolia</i>	15	23	
<i>Colobanthus buchananii</i>	15	23	
<i>Gaultheria nubicola</i>	15	23	
<i>Leptinella pectinata</i> var. <i>pectinata</i>	14	22	
<i>Agrostis muelleriana</i>	14	22	
<i>Abrotanella inconspicua</i>	14	22	
<i>Raoulia hectorii</i>	14	22	
<i>Phyllachne colensoi</i>	13	20	
<i>Pimelia notia</i>	13	20	
<i>Anisotome imbricata</i>	12	18	
<i>Celmisia sessiliflora</i>	10	15	
<i>Anisotome lanuginosa</i>	9	14	
<i>Myosotis pulvinaris</i>	8	12	
<i>Leptinella pectinata</i> var. <i>villosa</i>	7	11	
<i>Craspedia lanata</i>	6	9	
<i>Phyllachne rubra</i>	6	9	
<i>Leptinella albida</i>	5	8	



Brachyscome montana



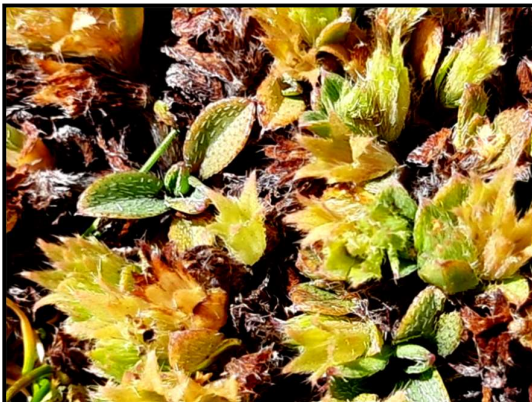
Brachyscome longiscapa



Chaerophyllum aff. *colensoi* (*Oreomyrrhis* sp. "bog").



Raoulia aff. *buchananii*



Myosotis glauca on the Remarkables ridge top.



Carex berggrenii common in wetlands.



Aciphylla lecomtei



Aciphylla simplex



Aciphylla kirkii



Anisotome lanuginosa



Leptinella albida in flower.



Ranunculus maculatus partly submerged.



Ranunculus pachyrrhizus showing thick stems.



Ranunculus pachyrrhizus.



Hebe epacridea on typical scree habitat.



Epilobium porphyrium, scree willow herb

Hebe epacridea and *Epilobium porphyrium* are confined to screes and rocky sites of the upper slopes and ridges above about 1800 m.



Euphrasia aff. *petrici* in wetland. Forms loose cushions in damp ground.



Carex edgarae, leaves similar to *Carex petrici* but pinkish rather than reddish



Leucogenes grandiceps, NZ Edelweiss



Celmisia haastii, a common alpine daisy.



Myosotis bryonoma, moss forget-me-not.



Pachycladon novae zelandiae a tiny
cress of fellfield and rock crevices.



Celmisia viscosa lower Sugar Bowl.



Luzula colensoi on exposed rocky ridge top.



Ranunculus buchananii



Geum cockaynei, Sugar Bowl.



Chionohebe ciliolata subsp. *fiordensis*.
New Record.



Celmisia brevifolia uncommon.



Raoulia apicinigra uncommon.



Aciphylla lecomtei in slim-leaved snow tussock.



Myosotis pulvinaris, forms tight cushions.



Brachyglottis bellidioides with *Acaena saccaticupula*



Colobanthus apetalus



Coprosma atropurpurea. Fruit can be dark purple.



Chionohebe thompsonii



Drosera arcturi sundew



Aciphylla kirkii



Kellaria childii



Raoulia grandiflora with *Abrottenella inconspicua* (top).

Raoulia apice-nigra with black bracts



Phyllachne rubra (with nobby leaf tips)

Phyllachne colensoi



Myosotis pulvinarius cushions with *Raoulia youngii*.

Poa novae-zelandiae on wet rocks.



Scleranthus uniflora with *Raoulia apice-nigra* mat.



Hebe hectorii var. *demissa*



Schizelema exiguum in flower. In wetlands.



Dolichoglottis lyalii beside stream.



Schizelema cyanopetala on rock ledge.



Taraxacum magellanicum



Alpine moth with *Abrotanella caespitosa* (strap lvs) and *Kellaria paludosa* (bottom centre & upper right).



Myosotis drucei on stony ridge top.



Alpine moth.