



PO Box 37263
Stokes Valley
LOWER HUTT 6340

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New Zealand Bryophyte.

Acknowledgements: New Zealand Landcare.
Department of Conservation.

	Umbrella group	Taxon (2004)	Threat classification (2010)	Notes
Allisoniella scottii	Threatened	Allisoniella scottii	Nationally Critical	Stewart Is, Tin Range, summit of SE crest & Westland, Mt Euclid. Identification difficult. Very small area of occupancy. Edges of shallow streams and tarns.
Anastrophyllum papillosum	Threatened	Anastrophyllum papillosum	Nationally Critical	Known only from the type locality at Soda Springs, Ruapehu (1990s). Rim of cliff by waterfall Recent search failed to find it, but very cryptic.
Bragginsella anomala	Threatened	Bragginsella anomala	Nationally Critical	Temple Basin, West Coast only - still present at type locality.
Castanoclobos julaceus	Threatened	Leiomitra julacea	Nationally Critical	Formerly Leiomitra julacea; Cascade Valley, Teer Plateau, South Cape Stewart Island.
Cyclodictyon blumeum (Mull.Hal.) O. Kuntze	Threatened	Cyclodictyon blumeum (Mull.Hal.) O. Kuntze	Nationally critical	Raoul Is only, in seeps (2 only)
Didymodon calycinus Dixon	Threatened	Didymodon calycinus Dixon	Nationally critical	Hawkes Bay, last seen 1956, considerable unsuccessful search effort. Clearly NC if not extinct. No new NZ records. Identified the two recorded localities, and searched both for D.c. Between Larsen's House and the bush, Mauriceville (seen 1913, 1914 leg W Gray "In boggy place in grass paddock, among rushes). Five bryologists searched 3 hours (July 2008); 2 bryologists 4 hours (November 2008). Rochfort Road junction "Road cutting. On rock, more or less damp" (seen 1956, GOKS). Specific Site searched JEB & REB 2 hours (Sep 2007); and other roadsides in the area c.10 hours. Both sites have changed markedly since D. calycinus last seen, which may explain why we haven't been able to re-find it: At Larsen's, massive invasion by exotic Calliergonella cuspidata. At Rochfort Road, cutting is now bone dry and shaded by large pine and macrocarpa above (?50 years old). No presently known sites. There is a lot of potential habitat unsearched.





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Epipterygium opararensis Fife & A.J.Shaw	Threatened	Epipterygium opararensis Fife & A.J.Shaw	Nationally critical	Oparara Arch (+ old doubtful record from Kakapo Saddle); was potentially threatened by track realignment at Oparara but damage avoided.
Erpodium glaucum	Threatened	Erpodium glaucum (Wilson) I.G.Stone	Nationally Critical	Confirmed from only three lowland localities. The Unuwahao material (J.K. Bartlett 1476c; WELT M8353!) was collected from bark of Beilschmiedia tawa and was growing in part as a super epiphyte over Frullania sp. A few stems of Fabronia australis are present in the collection. This specimen was recorded by Bartlett (1985). The Raukokore R. collection is from an unspecified tree species and includes a few stems of Haplohymenium pseudotriste. The Whakawhitira material bears no habitat data but includes plants of Fabronia australis.; formerly Aulacopilum glaucum
Frullania wairua	Threatened	Frullania "Radar Bush"	Nationally Critical	Formerly Frullania "Radar Bush". On twigs of one Bartlett's rata (Nationally Critical) only in Radar Bush, Northland.
Grimmia plagiopoda Hedw.	Threatened	Grimmia plagiopoda Hedw.	Nationally critical	Castle Hill only - in decline.
Hampeella pallens (Sande Lac.) M.Fleisch.	Threatened	Hampeella pallens (Sande Lac.) M.Fleisch.	Nationally critical	One of N.Z.'s rarest moss species. Five K.W. Allison collections made between December 1940 and March 1943 are from the region between Lake Rotoehu and the Bay of Plenty coast, c. 18-20 km to the north. Most of Allison's collections were made from Ripogonum and "lawyer" (presumably Rubus cissoides) stems at c. 180 m (600 ft) elevation and appear to come from moist gullies. The region north of Lake Rotoehu is presently largely occupied by exotic pine plantations and there must be doubt as to whether H. pallens survives in this area. Confirmation of its occurrence there is desired. A single more recent (1985) collection from the Kaimai Ra. (M. Skinner s.n., CHR 352758) extends the known range of this rare species westward in N.Z.
Isolembidium anomalum var. anomalum	Threatened	Isolembidium anomalum var. anomalum	Nationally Critical	Stockton Plateau, Denniston, Paparoa Range, Arthur's Pass (Coral track), 20 km N of Punakaiki, Sewell Peak. (Also Tasmania). Stockton Plateau site gone.





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<i>Lindbergia maritima</i> Lewinsky	Threatened	<i>Lindbergia maritima</i> Lewinsky	Nationally Critical	One population - has declined dramatically in last 10 years (from m2 to cm2). New info: Severe decline of one shoot system at only known locality, probably due to natural causes: storm damage likely, also a seal seen lolling adjacent to the site on a 2007 ARC visit. A few more shoots found a few metres away in 2007. ARC did a 40 hour survey on the Piha coast, with rangers trained to recognise the moss by JEB and JEB, and had abseiling gear. No more colonies found (Trilepidea 56 article). Dries Touw (Thuidiaceae expert) confirmed from photos is taxonomically determinate (and not runty Thuidiaceae).
<i>Lophozia pumicola</i>	Threatened	<i>Lophozia pumicola</i>	Nationally Critical	Currently known from 2 sites only (but much potential habitat between them); decline at Whirinaki frost flat, uncertain land tenure and security at Kepler track car park.
<i>Pachyschistochila papillifera</i>	Threatened	<i>Pachyschistochila</i> papillifera	Nationally Critical	Dannevirke & Ruahine Range, Otupae Range, Wellington. Calciphyte. All localities, though named differently, refer to the same small area of the Ruahine Range.
<i>Petalophyllum hodgsoniae</i>	Threatened	<i>Petalophyllum</i> hodgsoniae	Nationally Critical	Recent search at type locality failed to find it.
<i>Physcomitrella patens</i> subsp. <i>readeri</i> (Mull.Hal.) B.C.Tan	Threatened	<i>Physcomitrella patens</i> subsp. <i>readeri</i> (Mull.Hal.) B.C.Tan	Nationally Critical	Grows on alluvium after big floods
<i>Physcomitrium pusillum</i> Hook.f. & Wilson	Threatened	<i>Physcomitrium</i> pusillum Hook.f. & Wilson	Nationally Critical	Grows on alluvium after big floods
<i>Plagiopus oederiana</i> (Sw.) H.A.Crum & L.E.Anderson	Threatened	<i>Plagiopus oederiana</i> (Sw.) H.A.Crum & L.E.Anderson	Nationally Critical	2 collections 1980s, one locality. S: Nelson (Mt. Owen Ra.). Bipolar. Widespread in the Northern Hemisphere. Known from a single N.Z. collection made from damp marble at c. 1200 m elevation
<i>Riccardia intercellula</i>	Threatened	<i>Riccardia intercellula</i>	Nationally critical	One specimen, Glasgow Range 1980s; not found in similar places
<i>Riccardia pseudodendroceros</i>	Threatened	<i>Riccardia</i> pseudodendroceros	Nationally critical	
<i>Xenothallus vulcanicus</i>	Threatened	<i>Xenothallus</i> vulcanicus	Nationally critical	Mt Ruapehu and Temple Basin
<i>Seppeltia succuba</i>	Threatened	<i>Seppeltia succuba</i>	Nationally critical	Eyre Mountains. Threatened on Macquarie
<i>Petalophyllum australe</i>	Threatened	<i>Petalophyllum</i> australe	Nationally Critical	Fits A(3) in area of occupancy, but also declining seriously (primary habitat mineralised lowland wetland edges), last seen 1988





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Seligeria diminuta (R.Br.bis) Dixon	Threatened	Seligeria diminuta (R.Br.bis) Dixon	Nationally Critical	Castle Hill, Cave Stream, Mt Alford (all Canterbury); possibly threatened by rock climbers. Canterbury (Castle Hill, Cave Stream, Mt. Alford). Endemic. Among the most rarely collected moss species in N.Z. In sheltered crevices of limestone. The single modern and confirmed collection from the Castle Hill area was collected at "Castle Rock" by J.K. Bartlett on 26 Aug. 1980 (CHR 266206).
Pseudolophocolea denticulata	Threatened	Pseudolophocolea denticulata	Nationally critical	
Tortula viridipila Dixon & Sainsbury	Threatened	Tortula viridipila Dixon & Sainsbury	Nationally critical	There are at least 4 collections of T. viridipila. In addition it is fairly distinctive. No new info. 3 specimens: Mt Arthur (leg. GOKS) and Mt Owen (leg. JKB) in NW Nelson, and also Lake Alta, Remarkables leg Mark & Bliss 1964
Cephaloziella invisita	Threatened	Cephaloziella invisita	Nationally Critical	Minginui, Otupaka Frost Flats; frost flats under threat from weed invasion, also Chathams - habitat degeneration.
Cephaloziella nothogena	Threatened	Cephaloziella nothogena	Nationally Critical	Ruapehu (head of Mangaetepopo Stream) only - still present - total area 10x10 cm.
Willia "WELT M4142"	Threatened	Trichostomum imshaugii (Vitt) R.H.Zander	Nationally critical	Includes Trichostomum imshaugii (Vitt) R.H.Zander and Willia calobolax (Mull.Hal.) Lightowlers. Antipodes, Campbell Island, Fiordland (one collection). Further details of voucher are: leg. CD Meurk 3 Dec. 1975, Folly Islet, off Campbell island. JEB notes: Becomes an NZ endemic. Known now from: Antipodes: 1 specimen (leg Cockayne with Leptostomum inclinans); Campbell Island: 2 specimens (leg Vitt, with Zygodon intermedius; leg Meurk "on rock"); ?Fiordland (leg Bartlett) "saxicolous on schist talus". Specimen missing. Habitat: Rock, ?exposed, high latitudes. Genus Willia primarily subantarctic. JEB inference: Not likely to be common on subantarctic islands as collecting there by bryologist Vitt (both Campbell and Auckland) and he described it (as Barbula imshaugii), but never-the-less known range is relatively poorly explored bryologically.





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Calymperes tenerum	Threatened		Nationally critical	New to NZ, tropical species at southern limit (similar to Ectropothecium sandwichense, but C. t. is only known on Chathams in NZ and its habitat there is highly vulnerable, ie in collapsing forest). So far known only from the Chatham Islands (Rekohu and Rangiauria) - two sites on Rekohu (Chatham) - Ocean Mail (2007), Sweet Water (2006) and one on Rangiauria (Pitt) Waipaua (2008). At none of these sites is it secure - the Sweetwater one was last seen in 2006 - and the tree it was growing on has now been felled for a fenceline. I have not seen anymore there despite looking (2007, 2008). The Ocean Mail site was from a rotting log in a small forest remnant by the main road (I didn't knowingly collect it there - there may be more but the site is very small < 0.5 ha). On Rangiauria (Pitt) I found it twice in an unprotected forest remnant that is starting to collapse. Once on a nikau palm, and once on a hoho (Pseudopanax chathamicus). It was reasonably common on a single hoho and one nikau but I did not see any of it anywhere else in this remnant or indeed during other opportunistic surveys on either of the main islands, Rangatira and Mangere.
Dicranoweisia spenceri Dixon & Sainsbury	Threatened	Dicranoweisia spenceri Dixon & Sainsbury	Nationally Endangered	Trend criterion uncertain, but not found in recent searches. N: Wellington (Mt. Ruapehu); S: Nelson (Travers Saddle), Canterbury (Mt. Cassidy, Blimit Track). Endemic. The type collection was made from "on bark of scrub & small trees".
Archidium elatum Dixon & Sainsbury	Threatened	Archidium elatum Dixon & Sainsbury	Nationally Endangered	Jessica: New record from Chatham I (leg PdeL). Now recorded also from Australia (Flora of Australia Vol 51 p 151. leg IGS) so no longer NZ endemic. N Auckland: Ahipara, leg Matthews1931; Moturoa and Crater Rim Rock, leg RE & JEB i and viii 1990. Chatham: leg de Lange Habitat: coastal rock. P de L "Very easily overlooked". From field experience JEB agrees. Large area of potential suitable habitat, but threats from human induced degradation of coastal sites. Not refound at type locality (kikuyu rampant when searched for at Ahipara in 1990).
Chaetophyllopsis whiteleggei	Threatened	Chaetophyllopsis whiteleggei	Nationally Endangered	Old records from Waipou and Atiamuri. Recent records from Tongariro River; Boulder Lake, NW Nelson; and Red Hills, Nelson. Former sites in North Island frostflat and gumland areas largely lost. Also in Australia.
Fissidens integerrimus Mitt.	Threatened	Fissidens integerrimus Mitt.	Nationally endangered	New record: Rangiauria (Pitt I.) leg PdeL. Habitat: 'forest' streams (basis for RR); Puketi, Waipoua, Waitakere Ranges (Spragg Stream). Small, aquatic.
Goebelobryum unguiculatum	Threatened	Goebelobryum unguiculatum	Nationally Endangered	Moderate decline through loss of gumland. Lake Ohia, Ahipara, Spirits Bay (Te Paki). Almost gone from Waikumete Cemetery.





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<i>Neogrollea notabilis</i>	Threatened	<i>Neogrollea notabilis</i>	Nationally Endangered	Fragment found on Chathams
<i>Radula papulosa</i>	Threatened	<i>Radula papulosa</i>	Nationally Endangered	Widely collected throughout East Coast-Wairarapa in lowland forest which have now gone.
<i>Ricciocarpos natans</i>	Threatened	<i>Ricciocarpos natans</i>	Nationally Endangered	Everything eats it.
<i>Calypogeia sphagnicola</i> (Arnell & J.Perss.) Warnst. & Loeske	Threatened		Nationally Endangered	Habitat: subalpine to alpine, seepages (<i>Schoenus pauciflorus</i> sedgeland) and small streams through swamps, 720–1180 m. Distribution: Bipolar. Australia, New Zealand: Nelson (Sandy Peak), Westland (Tiropahi R.), Otago (Maungatua, Swampy Hill), Southland (Borland Bog).
<i>Kurzia dendroides</i>	Threatened		Nationally Endangered	<i>Kurzia dendroides</i> is extremely rare in Australia, known only from the type collected in New South Wales by Whitelegge in 1885 (Schuster 1980) and a recent specimen from a locality about 100 km from the type locality (Heslewood & Brown 2007). AK 302550, P. J. de Lange CH1152 & P. B. Heenan, 13 Sep 2007, Rekohu (Chatham I.), Southern Tablelands, Tuanui Farm, Tuku-a-Tamatea, near Taiko Camp, NZMS 260 CI2 389415, 44° 04' S, 176° 38' W, ca. 180 m a.s.l., in boggy, cattle-pugged ground growing amongst <i>Carex chathamica</i> . Duplicate at F.AK 302657, P. J. de Lange CH1239 & P. B. Heenan, 17 Sep 2007, Rekohu (Chatham Island), Southern Tablelands, Lake Rakeinui Clears, NZMS 260 CI2 437390, 44° 05' S, 176° 34' W, ca. 260 m a.s.l., in dense restiad bog, threaded through <i>Riccardia cochleata</i> (AK 302658). Stewart Island; old Great Barrier record; also recently at Stockton. Likely habitat destruction at Stockton.
<i>Acromastigum verticale</i>	Threatened	<i>Acromastigum verticale</i>	Nationally Vulnerable	New records. More sites known, some with large colonies (Meola Creek, further up Motions Creek, Western Spring (all Auckland City), Masterton, Chatham I. Is readily identifiable, and spate of recent records suggests information gathering has been poor (and still is DP).
<i>Fissidens berteroi</i> (Mont.) Mull.Hal.	Threatened	<i>Fissidens berteroi</i> (Mont.) Mull.Hal.	Nationally Vulnerable	Habitat: soil, in sparse <i>Chionochloa rubra</i> over dense <i>Empodisma minus</i> – <i>Gleichenia dicarpa</i> – <i>Carpha alpina</i> fern rushland; with <i>Donatia novae-zelandiae</i> cushions, also creeping through <i>Trichotemnoma corrugatum</i> on granite bluff; 70–700 m. Distribution: Australia, New Zealand: Westland (Stockton Plateau, Mt Augustus, Waimangaroa Valley, Cypress Stream, Te Kuha Range), Southland (Cleddau Valley, Facile Harbour).
<i>Saccogynidium decurvum</i> (Mitt.) Grolle	Threatened		Nationally Vulnerable	





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Telaranea inaequalis J.J.Engel & G.L.Sm.	Threatened		Nationally Vulnerable	Habitat: dripping overhang on granite, with Zoopsis bicurris, Z. argentea, Kurzia hippuroides; 0–700 m . Distribution: Tasmania, New Zealand: Nelson (Denniston: Whareatea River and Deep Stream; Stockton: Mt Augustus Ridge, Mangatini Stream, Waimangaroa Valley old coal mine), Southland (Bowen Falls), Stewart Island (Pegasus Creek). Two other specimens cited by Schuster without locality.
Riccia fluitans	At Risk	Riccia fluitans	Declining	
Goebelobryum aff. unguiculatum	At Risk	Goebelobryum aff. unguiculatum	Relict	South Island, Chatham Islands, swamps
Porella aff. viridissima	At Risk		Relict	Endemic to New Zealand, known from Canterbury EP: Motunau ED (Mt Cass), Banks Peninsula ER: Port Hills ED (Mt Cavendish, Sugarloaf, Ahuriri Scenic Reserve, Otahuna), Herbert ED (Prices Valley, Kaituna Valley). 200–410 m. Also known from Christchurch Botanical Gardens. .There is a specimen identified at the last Bryo workshop from Thisbee Stream Although is could be Porella aff maxima (Step) M.L.So RJL 1020 13/12/08
Allisoniella recurva	At Risk	Allisoniella recurva	Naturally Uncommon	New locations - Rainbow ski-field and Ureweras. Very cryptic, lots of likely habitat
Cololejeunea falcidentata	At Risk	Cololejeunea falcidentata	Naturally uncommon	3 new populations in last 3 years
Dumortiera hirsuta	At Risk	Dumortiera hirsuta	Naturally uncommon	
Isotachis westlandica	At Risk	Isotachis westlandica	Naturally uncommon	Taramakau River 1874; Abel Tasman NP 1982, West Coast, now also Stckton Plateau and Charming Creek.
Lophozia autoica	At Risk	Lophozia autoica	Naturally uncommon	Scattered sites throughout the country
Plagiochila baylisii	At Risk	Plagiochila baylisii	Naturally uncommon	Many new records
Plagiochila pacifica	At Risk	Plagiochila kermadecensis	Naturally uncommon	Formerly listed as Plagiochila kermadecensis
Schistochila pellucida	At Risk	Schistochila pellucida	Naturally uncommon	New localities
Brevianthus flavus	At Risk	Brevianthus flavus	Naturally Uncommon	Includes Brevianthus sp. Croesus Track; Craigieburn Pakihi, Westland; Lake Kaniere, Tarahoka, Waipoua Forest (2000), Mount Rowe.. Equally rare in Tasmania.
Cololejeunea appressa (A. Evans) Benedix	At Risk	Cololejeunea sp. 1	Naturally uncommon	Formerly Cololejeunea sp. 1. Previously three far North sites - Kiwani Reserve, Herekino Forest; Unawhao, and Radar Bush, Te Paki. Probably present in Australia. New localities Chathams, Port Waikato, Russell State forest.





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Siphonolejeunea "rock"	At Risk	Siphonolejeunea "rock"	Naturally uncommon	Better determination and more collecting.
Stenolejeunea acuminata	At Risk	Stenolejeunea acuminata	Naturally uncommon	More collecting, including Chathams
Fissidens strictus Hook.f. & Wilson	At Risk	Fissidens strictus Hook.f. & Wilson	Naturally Uncommon	5 known sites, Waipoua to Auckland Islands 'forest streams'. Not found by A. Suren in S.I. stream survey. Although black, submerged, it is distinctive.
Zoopsis nitida	At Risk	Zoopsis nitida	Naturally uncommon	More locations including confirmation of outlying population on West Coast.
Acrostyphella phoenicorhiza (Grolle) N.Kitag. & Grolle	At Risk	Austroscyphus phoenicorhizus	Naturally Uncommon	Formerly Austroscyphus phoenicorhizus. Old record from Wairoa; recent records from Ruapehu (2009), Arthur's Pass, Paparoa Range and Stewart Island, Cobb Pwer station, end of Cascade Valley Road. Occurs in Australia.
#NAME?				
Archeophylla schusteri	At Risk	Archeophylla schusteri	Naturally Uncommon	Ruapehu, Sewell Peak, Stewart Island (3 localities), Campbell Island, Haast Pass, Stockton, Mt Owen. Very cryptic.
Austrolejeunea hispida	At Risk	Austrolejeunea hispida	Naturally Uncommon	Ruahine Range; Waterfall Track, Lewis Pass; Eglinton Valley; Haast Pass; Millford Road; Falls Creek, Cozette Burn, Fiordland.. Epiphyll on silver beech, horopito, and bark of kaikawaka. - forest edge.
Bryum pallescens Schleich. ex Schwägr.	At Risk	Bryum pallescens Schleich. ex Schwägr.	Naturally Uncommon	Canterbury (Styx Marsh, Cave Stream, Rough Ck. Basin), Otago (Naseby, Cardrona). Bipolar - widespread in N Hemisphere. Habitat preferences poorly known in N.Z. Known from few localities between sea level (Styx Marsh) and 800 m, and a single locality at c. 1500 m.
Chloranthelia berggrenii	At Risk	Chloranthelia berggrenii	Naturally uncommon	
Cratoneuron filicinum (Hedw.) Spruce,	At Risk	Cratoneuron filicinum (Hedw.) Spruce,	Naturally uncommon	N: Gisborne (Ruakituri R.), Hawke's Bay (Mohaka R.); S: Nelson (Mt. Arthur, Mt Owen, Ruby L.), Marlborough (Woodside Ck.), Canterbury (Broken R., Castle Hill, Temple Basin), Southland (Takahe V.). Reported from Europe, North America, Asia including Japan, Central America, and North Africa by Kanda (1976). In N.Z. Cratoneuron filicinum is usually associated with seepages or springs on limestone, but also occurs on clay over sandstone (at Mohaka R., with the sandstone probably calcareous) and in seepages over greywacke (as at Temple Basin, Arthurs Pass). At Takahe V. it formed a dense, tightly adherent golden-brown mat c. 25 × 25 cm on vertical, dripping limestone in subalpine Nothofagus forest.





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Encalypta raptocarpa Schwaegr.	At Risk	Encalypta raptocarpa Schwaegr.	Naturally uncommon	N: Wellington (Ruahine Ra.); S: Nelson (Mt. Owen and Mt Arthur Ras.), Canterbury (Broken R. basin) and Southland (Murchison Ra.); Ch (Pitt I). The collection from the “northwestern Ruahine Ra.” is a poorly documented one made by A.P. Druce in 1948. Bipolar. Widespread in North America, northern Europe and parts of Asia (Horton, 1983, p. 417). Smith (2004) and Hoe (1974) record it from Hawaii. Ochyra et al. (2008) record it from Patagonia, the Antarctica Peninsula, and the South Orkney Is. Occurring mostly in cracks in massive limestone and marble outcrops and boulders and on derived soil detritus. The Pitt I. (Hakepa Hill) collection (P. de Lange & P.B. Heenan CH2246) is unusual. It grew there “threaded through Lolium perenne and Hymenophyllum multifidum” on soil derived from trachyte (a feldspar-rich intrusive rock often associated with basalt).
Haplomitrium ovalifolium	At Risk	Haplomitrium ovalifolium	Naturally uncommon	Seven sites - Campbell Is; Mt Brewster, Otago; Leith Valley, Otago; Livingstone Mountains, Otago; Newton Range, Westland; Tama Lakes, Ruapehu; Mt Williams, Arthur's Pass.
Hylocomium splendens (Hedw.) B. S. G.	At Risk	Hylocomium splendens (Hedw.) B. S. G.	Naturally uncommon	N: Gisborne (Mt. Hikurangi), Hawke’s Bay (Mt. Kaweka) Wellington (N Ruahine Ra., Tararua Ra.). Bipolar. Widespread in the northern hemisphere.
Isolembidium anomalum var. cucullatum	At Risk	Isolembidium anomalum var. cucullatum	Naturally uncommon	Auckland Islands, Campbell Island, Stewart Island (1 site), (also Tasmania).
Isophyllaria attenuata	At Risk	Isophyllaria attenuata	Naturally uncommon	Northern limit is Ruapehu. Mt Euclid, Otira Valley, Fiordland, Stewart Island, Auckland Islands, Campbell Island.
Kurzia tenax	At Risk	Kurzia tenax	Naturally uncommon	Croesus Track, Fiordland, Awarua Bog, Stewart Island, Auckland Islands, Dennistin. Occurs in Australia.
Lepidozia acantha	At Risk	Lepidozia acantha	Naturally uncommon	
Mnioloma novae-zelandiae	At Risk	Mnioloma fusca	Naturally uncommon	Formerly Mnioloma fusca, now considered endemic
Radula ratkowskiana	At Risk	Radula ratkowskiana	Naturally uncommon	
Rectolejeunea ocellata	At Risk	Rectolejeunea ocellata	Naturally uncommon	More locations
Riccardia multicorpora	At Risk	Riccardia multicorpora	Naturally uncommon	3 pakihi sites but more habitat.
Zygodon rufescens (Hampe) Broth. in Paris	At Risk	Zygodon rufescens (Hampe) Broth. in Paris	Naturally uncommon	





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Bartramia crassinervia	At Risk	Bartramia crassinervia	Naturally Uncommon	S: Canterbury (Rough Cr., Hopkins R., Mt. Cook N. P.), Otago (Hawkdun Ra.). Endemic. The best documented material was collected from a shaded, mesic greywacke outcrop in subalpine mountain beech-dominated forest and most other collections appear to be from similar habitats. One collection (Hawkdun Ra.) is from a damp shady bank beneath tussock. From c. 760–1525 m.
Blindia contecta (Hook.f. & Wilson) Mull.Hal.	At Risk	Blindia contecta (Hook.f. & Wilson) Mull.Hal.	Naturally Uncommon	A; C. Austral. Reported from Kerguelen and Heard I. by Bartlett & Vitt (1986), but the Kerguelen record, at least, is dubious and probably based on a misidentification of Ditrichum strictum (in BM). They also cited unverified Patagonian reports. According to Bartlett & Vitt (1986), Blindia contecta is always subaquatic; it occurs on wet rock faces, often beside waterfalls. An A (Adams I.) collection has been seen from 579 m a.s.l.
Blindia seppeltii J.K. Bartlett & Vitt	At Risk	Blindia seppeltii J.K. Bartlett & Vitt	Naturally Uncommon	A; M. Reported from C by Bartlett & Vitt (1986) and Seppelt (2004). Endemic. From “moist rocks and from aquatic habitats in lakes and seepages”
Bryum algoviucum var. rutheanum (Warnst.) Crundw.	At Risk	Bryum algoviucum var. rutheanum (Warnst.) Crundw.	Naturally Uncommon	7 localities, South island only
Bryum amblyodon (Mull.Hal.)	At Risk	Bryum amblyodon (Mull.Hal.)	Naturally Uncommon	4 localities Nelson and Canterbury.
Cephaloziella aff. pulcherrima	At Risk	Cephaloziella aff. pulcherrima	Naturally Uncommon	Rangitoto Island only - reasonably common.
Chiloscyphus tuberculatus	At Risk	Chiloscyphus tuberculatus	Naturally uncommon	
Crosbya nervosa (Hook.f. & Wilson) Vitt	At Risk	Crosbya nervosa (Hook.f. & Wilson) Vitt	Naturally uncommon	A; C. Endemic. Mostly on branches and trunks of Metrosideros umbellata. Also on Coprosma spp. (fide Vitt, 1977) and Ozothamnus (Cassinia) leptophyllus and occasionally on wet rocks.
Ectropothecium sandwichense (Hook.&Arn.) Mitt. In Seem.	At Risk	Ectropothecium sandwichense (Hook.&Arn.) Mitt. In Seem.	Naturally uncommon	Kermadecs & Te Paki and Chathams. New localities Tokatoka, Chathams (leg P.deL). K; N: N Auckland (N. Cape, Te Paki, Maungaraho Rock S.R.); Ch (Pitt I.). Polynesian. Australia* (Queensland, New South Wales) and, according to Whittier (1976, p. 350), islands of the Pacific N to Fiji and Hawaii and E to Rapa and the Marquesas. Occupying a range of terrestrial habitats on K, including rotten logs, Mysore thorn scrub, swamp margins, grassy sites dominated by Sacciolepis, and open Metrosideros forest. On N usually on streamside rocks, but also recorded from a “rotting, sopping wet puriri log” at Maungaraho (nr. Kaipara).





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Frullania "coastal"	At Risk	Frullania "coastal"	Naturally uncommon	Only known from coastal Stewart Island and Auckland Islands.
Harpalejeunea filicuspis	At Risk	Harpalejeunea filicuspis	Naturally uncommon	Te Paki Bush (Northland) and Mangamuka Gorge.
Herzogianthus sanguineus	At Risk	Herzogianthus sanguineus	Naturally uncommon	Mt Euclid, Sewell Peak, Te Kuha Ridge, West Coast, Croesus Track, Paparoas. New North island sites: Ureweras.
Holodontium strictum	At Risk	Verrucidens turpis (Cardot) Cardot	Naturally uncommon	Includes Verrucidens turpis (Cardot) Cardot, circumsubantarctic. S: Canterbury (Rough Ck Basin, Mt Wakefield), Otago (Old Man Ra., nr. Lake Alta on Remarkable Ra.). Austral-Andean. S. Georgia*, Argentina (Tierra del Fuego)*. Alpine stream margins, sometimes at base of late snowbanks; sometimes forming "continuous cushion[s] on cold wet rock [which is] constantly drenched by running water"
Hygrolembidium triquetrum	At Risk	Hygrolembidium triquetrum	Naturally uncommon	Olivine Range, Dagon, West Coast & Haast, Mt Armstrong, Otago, Stewart Island. Two new records 2000 - Young Range and Princess Range, south Fiordland.
Lejeunea anisophylla	At Risk	Lejeunea anisophylla	Naturally uncommon	Raoul Island, Chathams
Lepidozia elobata	At Risk	Lepidozia elobata	Naturally uncommon	
Lopholejeunea "black"	At Risk	Lopholejeunea "black"	Naturally uncommon	Waipoua River and side stream, Waitekere, Coromandel, Hunua Falls
Muelleriella angustifolia (Hook.f. & Wilson) Dusén	At Risk	Muelleriella angustifolia (Hook.f. & Wilson) Dusén	Naturally uncommon	Campbell Island. On rock faces at c. 150–300 m elevation. It is found commonly with Andreaea acutifolia and A. subulata on siliceous cliff faces in exposed situations. According to C. Meurk (pers. comm., 20 Feb. 2003) the sites at from which M. angustifolia is known lies at the "low end of maritime influence in terms of Campbell I." and would have "low-moderate nutrient inputs from the sea."
Muelleriella aucklandica Vitt	At Risk	Muelleriella aucklandica Vitt	Naturally uncommon	
Notoligotrichum bellii (Broth.) G.L. Smith.	At Risk	Notoligotrichum bellii (Broth.) G.L. Smith.	Naturally uncommon	5 South Island localities, ephemeral pools in forest
Orthotheciella varia (Hedw.) Ochyra	At Risk	Orthotheciella varia (Hedw.) Ochyra	Naturally uncommon	widespread on limestone
Pallavicinia rubristipa	At Risk	Pallavicinia aff. rubristipa	Naturally uncommon	Formerly Pallavicinia aff. rubristipa; some populations on coal measures potentially under threat.
Plagiochila bazzanioides	At Risk	Plagiochila bazzanioides	Naturally uncommon	More records





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Pyrrhobryum paramattense (C. Müll.) Manuel	At Risk	Pyrrhobryum paramattense (C. Müll.) Manuel	Naturally uncommon	Raoul Island, Waipoua, Chathams. Another species reaching southern limit in N Auckland plus Chathams. common in Australia and Norfolk Island. K; N: N Auckland (Puketi State Forest, Waipoua Forest); Ch (Tuku-a-Tametea Res.). Australasian. Tasmania, Australia*, Norfolk I*. Reported from Lord Howe I. According to Sykes (1977, p. 58) "a common and locally abundant epiphyte and common terrestrial of the wet and dry forest" on K
Racomitrium crumianum	At Risk	Racomitrium crumianum	Naturally uncommon	Nelson and Southland, on granite & gneiss. S: Nelson (Boulder L., Scarlett Ra., Glasgow Ra., Lookout Ra., Hope Ra.), Southland (Murchison Ra.). Endemic. The bicentric (Nelson and Fiordland) distribution likely reflects the absence of granitic bedrock in the central S.
Radula cordiloba subsp. erigens	At Risk	Radula aff. cordiloba "Raoul Island"	Naturally uncommon	Was Radula aff. cordiloba "Raoul Island". Distribution: Endemic subspecies to Kermadec Islands, Raoul Island.
Radula javanica	At Risk	Radula javanica	Naturally uncommon	Raoul Is. Only in NZ
Riccardia furtiva	At Risk	Riccardia furtiva	Naturally uncommon	
Schistochila nitidissima	At Risk	Schistochila nitidissima	Naturally uncommon	Now known from Waipapa catchment as well as Waipoua
Sphagnum perichaetiale	At Risk	Sphagnum perichaetiale	Naturally uncommon	Few collections Northland, some Nelson. N Auckland (Ahipara Plateau, Kawerua Road), S Auckland (Netherby). Recorded by Karlin & Andrus (2006) from localities in vicinity of the Karikari Peninsula and from three localities (Nile R., Caledonian & German Terraces) in Nelson L.D. Pantropical.
Timmia norvegica J.E.Zetterst.	At Risk	Timmia norvegica J.E.Zetterst.	Naturally uncommon	4 collections NW Nelson - Mt Arthur & Mt Owen. Widespread at higher latitudes in the northern hemisphere (see Brassard, 1979).
Trichostomum eckeliaaum	At Risk	Tortella mooreae Sainsbury	Naturally uncommon	NZ material formerly Tortella mooreae Sainsbury. Changed genus and synonymised, so no longer NZ endemic. New records on shore-line of Rangitoto I., where already well-known and Chathams (leg PdeL). Abundant spore producer. Odd absences from apparently OK habitat eg Puketutu I foreshore. Confined to Northern NI coasts plus Chathams.
Zoopsis bicurris	At Risk	Zoopsis "Croesus Track"	Naturally uncommon	Was Zoopsis "Croesus Track"
Zoopsis matawaia	At Risk	Zoopsis "Rata Peak"	Naturally uncommon	Was Zoopsis "Rata Peak"
Gigaspermum repens (Hook.) Lindb.,	At Risk	Gigaspermum repens (Hook.) Lindb.,	Naturally Uncommon	New locality on Chathams (leg. PdeL)





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<i>Grimmia longirostris</i> Hook.	At Risk	<i>Grimmia longirostris</i> Hook.	Naturally uncommon? - check	4 collections
<i>Cephaloziella subspinosa</i>	At Risk	<i>Cephaloziella subspinosa</i>	Naturally Uncommon	Mangamuka Reserve (not found recently), Totorā North, Whirinaki, found recently in common microsite types.
<i>Chiloscyphus erosus</i> J.J. Engel	At Risk	<i>Chiloscyphus erosus</i> J.J. Engel	Naturally uncommon	
<i>Drepanolejeunea ternatensis</i>	At Risk	<i>Drepanolejeunea</i> aff. <i>ternatensis</i>	Naturally uncommon	Great Barrier Island (2004) and Radar Bush (1990s). New records from Russell Forest and Herekino Forest.
<i>Lepidozia fugax</i>	At Risk	<i>Lepidozia fugax</i>	Naturally uncommon	
<i>Rectolejeunea denudata</i>	At Risk	<i>Rectolejeunea denudata</i>	Naturally uncommon	3-4 new locations, including Chathams. Mahurangi Harbour, Leigh
<i>Stolonivector waipouensis</i>	At Risk	<i>Stolonivector waipouensis</i>	Naturally uncommon	Better determination and more collecting.
<i>Fissidens oblongifolius</i> var. <i>oblongifolius</i>	At Risk	<i>Fissidens oblongifolius</i> var. <i>oblongifolius</i>	Naturally Uncommon	New records: several records on Rangitoto I., JEB 2005, 2006 (where previously 1 doubtful leg LBM 1933); newly found on Chatham I. (PdeL) Distribution: N Auckland, Chatham I. Substrate: Shaded, soil or rock, often damp (down lava crevices on Rangitoto). Is Secure Overseas (JEB seen in Australia, New Caledonia). More widespread according to Pursell, but JEB has doubts about the synonymy. Easily passed over as the very common <i>Fissidens asplenioides</i> .
<i>Acrolejeunea allisonii</i> Gradst.	At Risk		Naturally uncommon	Habitat: epiphytic on <i>Nestigis</i> , <i>Larix</i> , <i>Nothofagus</i> and <i>Leptospermum scoparium</i> in dry scrub; with <i>Dicnemon</i> , <i>Porella elegantula</i> , <i>Pseudocypbellaria pickeringii</i> , <i>Frullania aterritima</i> , <i>Macromitrium gracile</i> ; 250–750 m. Distribution: Endemic. South Auckland (Rotorua), Nelson (Mt Stevens track, L. Rotoiti peninsula).
<i>Acromastigum mooreanum</i>	At Risk		Naturally uncommon	
<i>Amphidium lapponicum</i> (Hedw.) Schimp.	At Risk		Naturally uncommon	7-8 localities, cation rich rocks only. N: Taranaki (vic. Manganui Lodge, vic. Stratford Mountain House), Wellington (Mt. Ruapehu); S: Nelson (L. Peel, St. Arnaud Ra.), Canterbury), Westland (Otira V.) Bipolar. Widespread in the northern hemisphere; reported from Macaronesia, northern and southern Africa by Magill & van Rooy (1998). On ledges; apparently restricted to relatively cation-rich outcrops of greywacke and volcanics. One doubtful collection from the Eyre Ra. in Southland occurred on schist.





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<i>Amphilophocolea sciaphila</i> R.M.Schust.	At Risk	Naturally uncommon	Habitat: on soil, mist drift zone of waterfall under silver beech forest, on peaty soil under <i>Blechnum</i> and deeply shaded rocks; 550–900 m. Distribution: Endemic. Wellington (Tree Trunk Gorge, Tararua Range), Nelson (Boulder Lake), Westland (Haast Pass).
<i>Anastrophyllum novazelandiae</i> R.M.Schust.	At Risk	Naturally uncommon	Habitat: greywacke boulder; among bryophytes on schist or greywacke crag, in alpine zone; with <i>Chandonanthus squarrosus</i> , <i>Campylopus clavatus</i> , <i>Acrolophozia pectinata</i> , <i>Plagiochila circinalis</i> , <i>Cuspidatula monodon</i> , <i>Adelanthus bisetulus</i> , <i>Metzgeria</i> , <i>Frullania</i> , <i>Cephaloziella</i> ; 1400–1615 m. Distribution: Endemic. Marlborough (Branch River, Mt Richmond), Otago (Mt Shrimpton, Routeburn Track), Southland (Mt Alexander).
<i>Anastrophyllum schismoides</i> var. <i>crassulum</i> J.J.Engel in Engel and Braggins (1998)	At Risk	Naturally uncommon	Type: Engel 14742, Gordon River, Tasmania, F, isotype HO. Habitat: Distribution: Tasmania, New Zealand: South Auckland (Coromandel Peninsula near Moehau), Nelson (Mt Euclid), Canterbury (Bealey track near Jacks Hut), Otago (Ajax Swamp), Southland (Hollyford Track). Also reported from Fiordland- Trail between Gunns Hut and Hidden Falls, Engel and Braggins 1998 :379. Maybe that is your Hollyford record.
<i>Andrewsianthus perigonalis</i> (Hook.f. & Taylor) R.M.Schust.	At Risk	Naturally uncommon	Habitat: damp soil over granite bedrock, alpine tussockland of <i>Chionochloa australis</i> and <i>Schoenus pauciflorus</i> ; with <i>Radula sainsburiana</i> , <i>Rhacocarpus purpurascens</i> , <i>Paraschistochila conchophylla</i> , <i>Andreaea acuminata</i> ; 1280 m. Distribution: Australia, New Zealand: Nelson (Mt Euclid, Stockton), Westland (Upper Otira Valley), Stewart Island (Belltopper Falls). Auckland Islands, Stewart Island (3–ca. 100 m); South Island (ca. 1200 m). Australia: Tasmania (McCarthy 2003). There are a number of collections from the Auckland Islands, but only three from Rakiura EP, including one from Codfish Island (on a rock outcrop in scrub above Sealers Bay) and one from Canterbury (Arthur's Pass) EP
<i>Beeveria distichophylloides</i>	At Risk	Naturally Uncommon	PdL: “ its not common anywhere it is truly biologically sparse, RR - because it is virtually confined to base-rich substrates. I know this species has a few areas where it is common but it s by and large sparsely distributed over large parts of the country (including the Chatham islands).
<i>Cololejeunea floccosa</i>	At Risk	Naturally uncommon	New localities Russell Forest, Kiwanis Reserve, Herekino. New listing





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<i>Cololejeunea inflexifolia</i> R.M.Schust.	At Risk	Naturally uncommon	Habitat: twigs of <i>Myrsine divaricata</i> , <i>Dacrydium cupressinum</i> , <i>Coprosma propinqua</i> , <i>Coprosma tayloriae</i> , on forest margins; <i>Nothofagus fusca</i> forest; 50–450 m. Distribution: Endemic. Nelson (Lake Rotoroa), Westland (Lake Mahinapua Forest Reserve, Kelly shelter).
<i>Dicranella dietrichiae</i> (Müll.Hal.) A.Jaeger	At Risk	Naturally uncommon	Puketi to Tongariro. N: N Auckland (West Russel State Forest, Bay of Islands), S Auckland (Whale I., Rotorua, Waimangu V., Orakei-korako). Australasian. Australia*. Reported from Tasmania by Dalton et al. (1991). On clay. Apparently favouring open areas such as pastures. However, the original N.Z. collection came from thermally heated soil at Orakei-korako, on the Waikato R. and sterile material from Whale I. also came from heated soil. This species is known from very few localities.
<i>Eccremidium minutum</i>	At Risk	Naturally uncommon	Auckland to Taupo, bare soil, ephemeral
<i>Eccremidium pulchellum</i>	At Risk	Naturally uncommon	Throughout North Island and northern South Island, bare soil, ephemeral.
<i>Fallaciella robusta</i> Tangney & Fife	At Risk	Naturally uncommon	Nelson, Marlborough, Southland, scattered montane -subalpine. S: Nelson, Marlborough (Mt. Stokes), Southland (Milford Sound, Stuart Ra., Deep Cove. Endemic.
<i>Heteroscyphus argutus</i> (Reinw. et al.) Schiffn.	At Risk	Naturally uncommon	Habitat: soil, rock, rotten logs; lowland forest, sometimes near streams; with <i>Wijkia extenuata</i> ; 0–? m. Rare. No threat status. Appears to be common on Raoul Island (part of most terrestrial collections). Distribution: Pacific, Australia, New Zealand: Kermadecs (Raoul Island)
<i>Hypnum kirkii</i> Beckett	At Risk	Naturally uncommon	Moggy Island, Solanders, Snares, Auckland Islands. Should be placed in <i>Sematophyllum</i> . Snares Id., T. Kirk, s.n., January 1890, (herb. Beckett 370), CHR-Beckett! Known from Moggy I. (nr. St.), Sol, Sn, and A. Endemic. The best documented collection (D. Horning SA65) came from the trunk of “dead & live” <i>Olearia lyallii</i> at the South Promontory, Snares Id.; also terrestrial on humus or peat.
<i>Ischyrodon lepturus</i>	At Risk	Naturally uncommon	Scattered localities in North Is and northern SI
<i>Isotachis olivacea</i> R.M.Schust.	At Risk	Naturally uncommon	Habitat: seepage over rock, sub-alpine scrub and shrub tussockland, 1160–1310 m. Distribution: Endemic. Nelson (Paparua Range, Mt Euclid), Westland (Upper Otira Valley).
<i>Isotachis plicata</i> J.J.Engel	At Risk	Naturally uncommon	Habitat: rocks and soil near streams and tarn margins, 1225–1370 m.





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Lejeunea sp. WELT H10386

At Risk

Naturally uncommon

Lembidium longifolium

At Risk

Naturally uncommon

Lepidozia glaucophylla

At Risk

Naturally uncommon

Distribution: Endemic. Nelson (Lookout Range), Canterbury (Temple Basin), Southland (Borland Saddle).

Apparently very rare in New Zealand and known only from a few South Island sites. Known from four Fiordland sites: at 695 m at Lake Marion in a rather open *Nothofagus menziesii* forest, with frequent large boulders that are often largely bryophyte covered. At this site, plants of *Lepidozia glaucophylla* together with hymenophylls formed a thick mass loosely that was attached to a huge boulder (see Engel and Schuster, 2001). Known from Mackinnon Pass at 1000 m on a rock overhang; from the Borland Burn (also Fiordland) in bryophyte cushions under *Nothofagus solandri* var. *cliffortioides* forest, and from Deep Cove. Also known from two sites on the Paparoa Ra.: (Mt. Euclid and Mt. Priestly, 960–1200 m). Also found on the Gorge Stream Track at last Bryo workshop. (RJL 0951A 14/12/08) and, in the Wainui Water Reserve on Sledge Track RJL 1521 28 July 2006, Soil bank with *Chiloscyphus*. I have six sites recorded in Fiordland but I guess that does not effect suggestion as uncommon. These are. Cascade Creek, Eglington Valley 1600ft on *Nothofagus fusca*, Hope Arm, Lake Manapouri, West Arm Lake Manapouri, Hope Arm, Lake Manapouri, South end of Lake Marion and Precipice Cove, Bradshaw Sound. (OTA 013772 in *Trichocolea*

Lepidozia serrulata J.J.Engel 2004

At Risk

Naturally uncommon

australis packet, OTA 027767 Det KWA, OTA 027768 det KWA, CHR H 7639 det and Col KWA,

Engel and Schuster 2001: 95 Engel 23170, OTA 010715 GAM Scott)

Stewart Is., Rakiura Natl. Park, Mt. Rocky summit area, 530 m, Engel, von Konrat & Braggins 24293 (F); isotype: (AK). Also under an open canopy of stunted *Dacrydium cupressinum* and dense *Dracophyllum* understorey (ca. 2–3 m above river behind Belltopper Falls). The species also occurs in mosaic communities of stagnant ponds, Sphagnum bog, open *Leptospermum scoparium* – *Dracophyllum* heath to 1–2 m tall, and dense communities of *Gleichenia dicarpa* and *Empodisma minus* (Freshwater Landing). At Pryse Peak *Lepidozia serrulata* occurs in open forest, including stunted *Dacrydium cupressinum*, *Podocarpus hallii*, *Olearia colensoi*, *Gahnia*, *Blechnum* and bryophyte cushions on the forest floor.





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Macromitrium ramsayae	At Risk	Naturally uncommon	Common on Chathams. Chatham Island endemic, forest epiphyte, abundant but susceptible to forest collapse. On the other hand, increasing vigilance for Reserves.
Metzgeria crassipilus (Lindb.) A.Evans	At Risk	Naturally uncommon	Habitat: rock, trunk of Alectryon excelsus, twigs of mahoe, Coprosma grandiflora, margin of tawa forest, under Schefflera canopy, dry habitats; with Siphonolejeunea nudipes, Frullania patula; 180–600 m. Distribution: World-wide. New Zealand: South Auckland (D. Glenny 4739, Rotorua, WELT H9812), Wellington (Ruahine Range, D. Glenny 9785), Otago (G.A.M.Scott 28, Maungatua, on dry rock, 2000 ft, MELU).
Metzgeria scobina Mitt.	At Risk	Naturally uncommon	Habitat: epiphytic on Nothofagus solandri, Coprosma propinqua twigs; lowland to subalpine forest and forest clearings; 400–1300 m. Distribution: Philippines, Indonesia, Malaysia, New Guinea, New Zealand: Wellington (Ruahine Range), Nelson (Red Hills, Mt Glennie; Kiwi Saddle), Westland (Lake Kaniere, Lake Matheson).Rare. No threat status. Also confirmed by John Braggins from Duffy Creek in the Victoria Range on the Jan 2007 Bryo Foray
Metzgeria submarginata M.L.So	At Risk	Naturally uncommon	Habitat: epiphytic on ?; tussock shrubland; 5–980 m. Distribution: Australia (Victoria, Tasmania), New Zealand: ? Otago.Reported by John Steel from Duffy Creek, Victoria Range on the Jan 2007 Bryo Foray
Orthothecium strictum Lorentz	At Risk	Naturally uncommon	4 collections - high altitude limestone and marble, but easily overlooked. Poorly known from high elevation limestone & marble. <t Arthur, Mt Owen, Cobb V., Temple Basin.
Plagiobryum novae-seelandiae Broth.	At Risk	Naturally uncommon	N: Wellington (NW Ruahine Ra.); S: Nelson (Mt. Arthur, Mt. Owen), Canterbury (Broken R., Bealey, Godley R.), Southland (Takahe V.). Endemic. On humic soil over limestone and marble, in either forest or grassland habitats.
Plagiochila caducifolia Inoue & R.M.Schust.	At Risk	Naturally uncommon	Endemic to New Zealand: Known from Fiordland (Iris Burn), Fiordland–Westland boundary (L. Howden), Westland (Siberia R., Beans Burn, St Arnaud Ra.), Otago (L. Wakitipu), Sounds–Nelson (Richmond Range), and ? EPs.





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Plagiochila fuscella (Hook.f. & Taylor) Taylor & Hook.f.	At Risk	Naturally uncommon	Close to <i>P. retrospectans</i> and may be conspecific (with reduced teeth and suppressed trigones), but even alpine <i>P. retrospectans</i> does not show these features. Distribution: Endemic. Auckland Islands, about 4 or 5 collections. My Fiordland record has it in four sites - Borland Lodge, Easter Fiordland, Lake Te`Anau Brod Beach 2 records, and Stillwater River and Secretary Island (OTA 052003 Ray Tangney 2262, OTA 055772 Colin Meurk, CHR H7779 KWA Collection col Colin Meurk, CHR 206173 det EAH and CHR 136194 det EAH 1964.
Plagiochilion prolifer (Mitt.) R.M.Schust.	At Risk	Naturally uncommon	Habitat: rotting logs and tree trunks in wet forest; 510 m. Distribution: Endemic. North Auckland (Bay of Islands), Wellington (Tararuas), Westland (Mt Hercules).
Pohlia australis A.J.Shaw & Fife	At Risk	Naturally uncommon	
Radula AK 282388	At Risk	Naturally uncommon	
Scorpidium cossonii (Schimp.) Hedenäs	At Risk	Naturally uncommon	Correct name for <i>Drepanocladus revolvens</i> sensu Beever. S: Nelson (Cobb V. & vicinity, St. Arnaud Ra.), Canterbury (Temple Basin), Otago (Old Man Ra.) Bipolar. Widespread in northern Europe (Hedenäs, 1989b), in N America and unspecified localities in S America (Hedenäs, 2000). In alpine flushes and margins of alpine tarns; apparently mesotrophic.
Siphonolejeunea sp. AK302659 (aff. nudipes, not 'lanceolata')	At Risk	Naturally uncommon	
Sphagnum compactum DC.	At Risk	Naturally uncommon	5 localities Nelson-Southland, margins of boggy alpine pools. Nelson (Mole Saddle, Paparoa Ra.), Otago (Old Man Ra., Garvie Ra.), Southland (Mt Burns). Bipolar, widespread in the N Hemisphere and reported from New Guinea (Eddy 1988, p. 20). Ranging from 1100 to 1500 m, with most collections coming from the margins of boggy pools in alpine situations.
Syrhobodon armatus	At Risk	Naturally uncommon	At edge of temperature tolerance. Another tropical species reaching its southern limit in NZ northern NI plus Chatham. K (track to Dripping Wells Terraces); N: N Auckland incl. offs. is. (PK, GB, Whangaruru North Head), S Auckland (Hot Water Beach, Pauanui.); Ch (Wairarapa Creek, Rabbit Island). Anomalous. Widespread in northern and eastern Australia according to Reese & Stone (1995), who also indicate it to be "widespread in the paleotropics". Fewer than ten N.Z. specimens have been seen. Three of them came from the caudex of tree ferns (2 from <i>Cyathea dealbata</i> and one unspecified), and a fourth from decaying "stump of <i>Astelia banksii</i> ". The Kermadec collections are from trunks of <i>Metrosideros kermadecensis</i> .





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Telaranea nivicola R.M.Schust. 1968	At Risk	Naturally uncommon	Endemic. Holotype: New Zealand, South Is., above Sealy Lakes, Sealy Ra., Mt. Cook Natl. Park, ca. 5,500 ft., Schuster 67–491b (F). Endemic to New Zealand: South Island (1435 m), North Island (1370 m). Known from Westland (Mt. Brewster), Canterbury (Sealy Ra.) and Southern North Island (Ruahine Ra.) EPs. Known only from a few widely scattered sites. The type occurred amidst <i>Allisonia cockaynei</i> , <i>Austrolophozia paradoxa</i> , <i>Chiloscyphus cuspidatus</i> , <i>Isotachis lyallii</i> and <i>Phyllothallia nivicola</i> on dead <i>Chionochloa</i> culms. The plant also occurs in the penalpine tussock zone at ca. 1435 m on Mt. Brewster and was removed from mats of <i>Allisonia cockaynei</i> , intermingled with <i>Diplophyllum domesticum</i> , <i>Isotachis lyallii</i> , <i>Metzgeria furcata</i> , <i>Phyllothallia nivicola</i> , <i>Solenostoma rufiflorum</i> , and <i>Telaranea quadriseta</i> . Also known from two stations in the Ruahine Ra., both in the Whanahuia Ra.; one of these occurred in boggy areas at 1370 m on Mt. Mangahuia.
Telaranea tetrapila var. cancellata	At Risk	Naturally uncommon	Habitat: dry soil caves within forest, 95–360 m. Distribution: Endemic. North Auckland (2), South Auckland, Wellington (Ruahine Range), Westland.
Telaranea tridactylis (Lehm. & Lindenb.) J.J.Engel & G.L.Sm.	At Risk	Naturally uncommon	Endemic. Type: New Zealand, Waipawa Co., near Norsewood, edge of Bartramia Creek, 1885, Colenso a.1418 (BM!, WELT!). Known from Southern North Island (Tararua Ra.), Gisborne (Urewera Natl. Park), Auckland (Herangi Ra., Mt. Te Aroha, Great Barrier Island) EPs. Known only from several scattered sites, "on trees and logs, forming large and thick patches" (Colenso, loc. cit., p. 245). On Mt. Te Aroha, plants occurred at 880–890 m loosely on the floor as well as over soil deep in a protected niche under the lip of the forest overhang, both populations in a stunted <i>Nothofagus menziesii</i> forest associated with <i>Dracophyllum</i> and <i>Quintinia serrata</i> . In the Herangi Ra. (S of Kawhia Harbor) the species occurred at ca. 720–750 m on an exposed plateau with a mosaic of penalpine bog vegetation, stunted <i>Quintinia serrata</i> and <i>Dracophyllum</i> heath (to 1 m tall), rocky outcrops and small water channels.
Tetrodontium brownianum (Dicks.) Schwägr.	At Risk	Naturally uncommon	Ruapehu, Paparoas, Hope Saddle, Taranaki Falls, chasmophile - highly shaded crevices, and shattered quartzite in shallow seepages. Taranaki (Mt Egmont), Wellington (Mt. Ruapehu); Nelson (Fyffe R, Hope Ra., Mt. Arthur, Mt Euclid), Westland (Sewell Pk.). Bipolar. Widespread but rare in northern hemisphere.
Thuidium cymbifolium (Dozy & Molk.) Dozy & Molk.	At Risk	Naturally uncommon	Northern to Egmont. Allan to supply notes.





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Trematodon mackayi (R.Br.bis) Broth.	At Risk	Naturally uncommon	c. 5 collections, Peat in pakihi, usually after fire. North and South Island. Usually on peat and often in pakihi. A large fraction of collections were made following fire in pakihi or other peatlands. From near sea level (Awarua Bog) to c. 150 m (Pakihi).	
Fissidens oblongifolius var. hyophilus J.E.Beever & I.G.Stone	At Risk	Naturally Uncommon	J agrees with PdeL that it is not a common species, and is fairly readily identifiable (so less argument for DP). Substrate includes a range of smooth-barked trees, exposed roots, and rock. Always more or less coastal with many records from northern off-shore islands, but also Percy's Reserve Wellington, Kaikoura and Chathams. Probably warrants return to species rank.	
Fissidens rigidulus var. pseudostrictus J.E.Beever	At Risk	Naturally Uncommon	Habitat: Aquatic, on rock in fast-flowing forest streams. Definitely easily overlooked. Distribution northern NI (collection bias?) plus Chathams and Nenthorn N Otago (leg P.deL).	
Acromastigum brachyphyllum		Acromastigum brachyphyllum	Data deficient	Taxonomically indeterminate; identity certain for type material only - general locality Paparoa Range
Acroscyphella nitidissima (R.M.Schust.) N.Kitag & Grolle #NAME?		Austroscyphus nitidissimus	Data deficient	Formerly Austroscyphus nitidissimus
Andrewsianthus hodgsonae		Andrewsianthus hodgsonae	Data deficient	Sealey Range, Mt Cook (1960s) only - Gertrude Cirque specimen misidentified. Known from type series only.
Bartramia alaris Dixon & Sainsbury		Bartramia alaris Dixon & Sainsbury	Data deficient	Hawke's Bay (Havelock North). Australia (New South Wales). The type collection was collected "on hillside, in pasture"; nothing more is known of its ecology. But this is a good species!
Bryum tenuidens (Dixon & Sainsbury)		Bryum tenuidens (Dixon & Sainsbury)	Data deficient	Single Mt Arthur collection 1930
Calliergidium austro-stramineum (Mull.Hal.) E.B.Bartram		Calliergidium austro-stramineum (Mull.Hal.) E.B.Bartram	Data deficient	S: Nelson (Cape Foulwind). Austral. South Shetland Is.* Reported from Kergulen, South Georgia (the type locality), southern Chile, South Orkney Is., and the Antarctic Peninsula by Ochyra (1998a, as Warnstorfia laculosa). The single (Cape Foulwind) collection is from "near sea level" and mixed with Drepanocladus aduncus, but bears no detailed habitat notes. Bartlett (1984) described this species in Westland as "always in very damp, acidic bogs in old paddocks and ditches"; unfortunately the collections upon which these observations were based are not present in any N.Z. herbarium; nor has the species been relocated.





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Cololejeunea cardiocarpa	Cololejeunea cardiocarpa	Data deficient	Currently one collection Aldermen Is.
Cololejeunea ellipsoidea	Cololejeunea ellipsoidea	Data deficient	Type specimen only, 1967 collection. Urewera National Park.
Cololejeunea pulchella var. stylifera	Cololejeunea pulchella var. stylifera	Data deficient	Not refound at type locality despite searches by David Glenly
Ditrichum brachycarpum Hampe	Ditrichum brachycarpum Hampe	Data deficient	Castle Hill; single collection 1891. Rare in Australia.
Ditrichum rufo-aureum (Hampe) Willis	Ditrichum rufo-aureum (Hampe) Willis	Data deficient	3 collections, all pre 1965. Mt Egmont, Tongariro, Rock & Pillars
Herzobryum atrocapillum	Herzobryum atrocapillum	Data deficient	Canterbury, Arthurs Pass, Scott Track, Avalanche Peak. No further specimens found despite recent looks.
Herzogobryum filiforme	Herzogobryum filiforme	Data deficient	Sealey Lakes, Canterbury & Upper Otira Valley, West Coast. No new specimens despite looking in the last 5 years.
Herzogobryum vermiculare	Herzogobryum vermiculare	Data deficient	Mt Ruapehu, Avalanche Peak
Lejeunea cyanophora	Lejeunea cyanophora	Data deficient	3 historical collections
Lophozia nivicola	Lophozia nivicola	Data deficient	Type only.
Lophozia subalpina	Lophozia subalpina	Data deficient	Widespread Southern Alps localities
Macromitrium angulatum Mitt.	Macromitrium angulatum Mitt.	Data deficient	One collection - not re-found but little effort
Nephelolejeunea CHR564881	Nephelolejeunea talinayi (S.Arnell) Grolle	Data deficient	MS in press; formerly Nephelolejeunea talinayi (S.Arnell) Grolle, one collection subalpine scrub, Fiordland
Paracromastigum fiordlandiae	Paracromastigum fiordlandiae	Data deficient	Could be widespread in Southern Alps
Phaeoceros hirticalyx	Phaeoceros hirticalyx	Data deficient	Known from single site (roadside cutting south of Westport), little other search effort
Plagiochila fragmentisima	Plagiochila fragmentisima	Data deficient	Type only Deep Cove
Plagiochila hatcheri	Plagiochila hatcheri	Data deficient	3 possible specimens





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<i>Ptychanthus stephensoniana</i>	<i>Ptychanthus stephensoniana</i>	Data deficient	Type collection only, poor locality details
<i>Riccardia</i> aff. <i>pallidevirens</i>	<i>Riccardia</i> aff. <i>pallidevirens</i>	Data deficient	One specimen, Campbell Island
<i>Riccardia umida</i>	<i>Riccardia umida</i>	Data deficient	Campbell Island only - type only.
<i>Schistochila pluriciliata</i>	<i>Schistochila pluriciliata</i>	Data deficient	One new locality - Lake Paringa
<i>Scorpiurium cucullatum</i> (Mitt.) Hedenäs	<i>Scorpiurium cucullatum</i> (Mitt.) Hedenäs	Data deficient	2 collections 1979, Bay of Islands and Rai Valley, not found since despite considerable effort. Possibly vagrant. N: N Auckland (Kawakawa); S: Marlborough (Rai V.). Australasian. Tasmania*, Australia (Victoria)*. Recorded from Queensland and N.S.W. by both Scott & Stone (1976) and Hedenäs (2002). One of the most poorly documented species in the N.Z. flora. The sole Kawakawa collection was recorded by Bartlett (1984) and this appears to be the only published record from N.Z.
<i>Temnoma angustifolium</i>	<i>Temnoma angustifolium</i>	Data deficient	Otupae (1930s) & Tiropahi River, West Coast (1980s).
<i>Petalophyllum preissei</i>	<i>Petalophyllum preissei</i>	Data deficient	
<i>Cephalozia badia</i>	<i>Cephalozia badia</i>	Data deficient	1960s records from Campbell Island and South Island. Circumpolar on subantarctic islands and Antarctic Peninsula.
<i>Pedinophyllum monoicum</i>	<i>Pedinophyllum monoicum</i>	Data deficient	
<i>Porella pulcherrima</i>	<i>Porella pulcherrima</i>	Data deficient	Lowland forest species, but current status widespread but poorly understood.
<i>Brachythecium subpilosum</i> (Hook.f. & Wilson) A.Jaeger	<i>Brachythecium subpilosum</i> (Hook.f. & Wilson) A.Jaeger	Data deficient	St Arnaud Range, 1 1987 collection (Fife)
<i>Drepanolejeunea vesciculosa</i> ssp. <i>euvesiculosa</i>	<i>Drepanolejeunea vesciculosa</i> ssp. <i>euvesiculosa</i>	Data deficient	Kermadecs, Raoul Is. May be attributable to <i>Lejeunea exilis</i> .
<i>Metzgeria alpina</i>	<i>Metzgeria alpina</i>	Data deficient	Widespread Southern Alps localities
<i>Stolonivector fiordlandiae</i>	<i>Stolonivector fiordlandiae</i>	Data deficient	
<i>Aneura</i> aff. <i>rodwayi</i>	<i>Aneura</i> aff. <i>rodwayi</i>	Data deficient	Known from single specimen at South Cape.





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<i>Cephalozia pachygyna</i> R.M.Schust. ex J.J.Engel 2008	<i>Cephalozia pachygyna</i>	Data deficient	Type locality Fiordland. Avalanche Peak, Arthur's Pass.
<i>Cephaloziella aenigmatica</i>	<i>Cephaloziella aenigmatica</i>	Data deficient	Paparoa Range, West Coast - type only.
<i>Cephaloziella exigua</i>	<i>Cephaloziella exigua</i>	Data deficient	Bowen Falls Track, Southland
<i>Cephaloziella grandiretis</i>	<i>Cephaloziella grandiretis</i>	Data deficient	Routeburn Track between Lake Mackenzie and Harris Saddle, Southland
<i>Cephaloziella hispidissima</i>	<i>Cephaloziella hispidissima</i>	Data deficient	Old Man Range & Ajax Swamp, Otago
<i>Cephaloziella muelleriana</i>	<i>Cephaloziella muelleriana</i>	Data deficient	Whirinaki River
<i>Cephaloziella pellucida</i>	<i>Cephaloziella pellucida</i>	Data deficient	Temple Basin only
<i>Cephaloziella pseudocrassigyna</i>	<i>Cephaloziella pseudocrassigyna</i>	Data deficient	Mt Burns, and upper Bealey valley
<i>Cheilolejeunea</i> AK287598	<i>Cheilolejeunea imbricata</i>	Data deficient	One stem from Raoul Island (2004). Formerly <i>Cheilolejeunea imbricata</i>
<i>Chiloscyphus hattorii</i> J.J. Engel	<i>Chiloscyphus hattorii</i> J.J. Engel	Data deficient	
<i>Cololejeunea</i> sp. 2	<i>Cololejeunea</i> sp. 2	Data deficient	Known from one locality on Karikari Peninsula on tawapou.
<i>Cryptostipula inundata</i>	<i>Cryptostipula inundata</i>	Data deficient	Known only from the type locality at Moraine Creek, Hollyford Valley.
<i>Dicranella temperata</i>	<i>Dicranella temperata</i>	Data deficient	Single poor specimen - taxonomically doubtful
<i>Frullania rostrata</i> var. "draco"	<i>Frullania rostrata</i> var. "draco"	Data deficient	Two specimens found on dracophyllum on top of the Mount Arthur tablelands.
<i>Gymnomitrium strictum</i> var. <i>inequalis</i>	<i>Gymnomitrium strictum</i> var. <i>inequalis</i>	Data deficient	Routeburn Track between Lake Mackenzie and Harris Saddle, Southland
<i>Haplomitrium minutum</i>	<i>Haplomitrium minutum</i>	Data deficient	Known only from cultivated turf plots; Cashmere Bowling Green cultivated at Palmerston North, (Otago). Believed to be from coastal Southland.
<i>Hyalolepidozia microphylla</i>	<i>Hyalolepidozia "microphylla"</i>	Data deficient	Mt Ruapehu, Red Hills, Fiordland. Now formally published.





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Hymenostylium recurvirostrum	Hymenostylium recurvirostre (Hedw.) Dixon	Data deficient	Was <i>Gymnostomum recurvirostrum</i> . No new NZ records nor info. Any searches made? Confusion with <i>Anoetangium bellii</i> (by HND). 1 collection leg JKB 1983 c1800 m, on calcareous soil in marble crevices, on Mt Owen, NW Nelson.
Lejeunea AK253889	Lejeunea AK253889	Data deficient	
Nephelolejeunea aff. hamata	Nephelolejeunea aff. hamata	Data deficient	Blue Rocks Road, Wairarapa
Radula "big Dave"	Radula "big Dave"	Data deficient	
Radula aff. retroflexa	Radula aff. retroflexa	Data deficient	
Radula parviretis	Radula parviretis	Data deficient	Type collection only, Port Pegasus
Radula sp.	Radula sp.	Data deficient	One collection, Campbell Island
Scapania nemorosa	Scapania cf. nemorosa	Data deficient	NZ material previously called <i>Scapania cf. nemorosa</i> . One collection, poor locality data.
Scapania undulata	Scapania cf. undulata	Data deficient	NZ material previously called <i>Scapania cf. undulata</i> . Two localities, one not revisited recently.
Treubia aff. tasmanica	Treubia aff. tasmanica	Data deficient	
Triandrophyllum symmetricum	Triandrophyllum symmetricum	Data deficient	Not refound at type locality; doubts about taxonomic validity; one other possible locality
Acrolejeunea securifolia (Nees) Watts ex Steph. subsp. securifolia		Data Deficient	Habitat: usually epiphytic, rarely on rocks or soil (in grass). Distribution: (of subspecies) Australia, Norfolk Is, New Zealand: Gisborne (East Cape, Omaruiti Point, Hamlin 2168, WELT). Not certain how accurate my ids are, they were done on oven dried material. But I have records for the West Coast from the Kathrin Affeld's study of epiphytes in <i>Metrosideros</i> . KA344A Site HT2-1 and K355A Site BC4-2. I don't know where Kathrin placed these collections.
Bazzania accreta (Lehm. & Lindenb.) Trev.		Data Deficient	Habitat: on rotten log in wet mixed podocarp-hardwood forest; c. 100 m. (Australia). Stewart Island, 1350 ft [c. 440 m] asl; in tall manuka scrub, epiphytic on <i>Leptospermum scoparium</i> ; coll. G.A.M. Scott (s.n.), 1964. OTA 008212. Stewart Island, Port Pegasus, North Arm, B.G. Hamlin 2805, WELT H8977 (also scraps in a couple of other <i>Bazzania</i> collections)





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Bazzania engelii Glenny 2008

Data Deficient

Endemic. Stockton Plateau: Weka Stream, Herbert Stream, St Patrick Stream. Rodney Lewington thinks he has it from Charleston, Fenian Track, Denniston, and possibly Lake Hanlon. In addition, specimens from Arthur Range (Harwoods Hole) may fit here. Some taxonomic indeterminacy over this species as it appears to belong in a species complex with the common *B. adnexa*.

Bazzania exempta J.J.Engel

Data Deficient

Endemic. Type from Mt Ruapehu. Also Whareatea River, Denniston.

Bazzania okaritoana Meagher & Glenny
2007

Data Deficient

Endemic. Known from two sites, the type locality in Westland EP and from Fiordland EP, in the Light River, near Lake Dale, 351 m, under *Nothofagus menziesii* forest on a hillslope, in a bouldery area, terrestrial with *Hymenophyton leptopodium* and *Telaranea tuberifera* (CHR 581358). At Okarito it grows on coarse gravels of compacted moraine till, on the back wall of an overhang almost facing the sea that is well protected from weather by hanging vegetation that forms a curtain Rodney Lewington thinks he may have this from Karamea, South Terrace Road.m (Not had time to check yet.)

Bryum funkii Schwaegr.

Data deficient

S: Otago (Pipsens Ck., White Ck., West Wanaka). Bipolar. Reported from Europe and N and central Asia by Nyholm (1958). Known from only three collections, two from stream side gravel with weedy species including *Ceratodon purpureus*, *Campylopus clavatus*, *Dicranoweisia antarctica*, and *Breutelia affinis*, and the third from “dry rocks at lakeside”. All collections are from c. 350 m.

Cephalozia schusteriana J.J.Engel

Data Deficient

Endemic. Holotype: New Zealand, South Is., Canterbury Prov., Arthur's Pass Natl. Park, Scotts Track to Avalanche Peak, W of town of Arthur's Pass, 1370–1430 m, Engel 22067 – c. per. + \$\$\$m (F); isotype: (CHR). Flora says, “Known from only a few collections; occurring on the lip of a pool at 1370–1430 m in the alpine zone (type locality).”

Cephaloziella byssacea (Roth) Warnst.
subsp. *byssacea*

Data Deficient

Habitat: with *Marsupella sparsifolia*, *Radula*, *Jungermannia*, *Diplophyllum verrucosum*, *Adelanthus oclusus*, *Lepidolaena taylorii*, *Andrewsianthus confusus*.

Distribution: Bipolar; New Zealand: Otago (Mt Brewster).

Cephaloziella crassigyna (R.M.Schust.)
R.M.Schust =*Cephaloziella aterrima* var.
crassigyna R.M.Schust.

Data Deficient

Habitat: most rocks subject to submersion in alpine rill; ?.

Distribution: Endemic. Wellington (Ruapehu, Turoa skifield)





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Cephaloziella densifolia	Data Deficient	
Cephaloziella pulcherrima subsp. sphagnicola R.M.Schust.	Data Deficient	Habitat: Sphagnum cristatum swamps; with Kurzia helophila. In Tasmania also found with other bryophytes, e.g. Campylopus clavatus, 390–1100m. Distribution: Tasmania, New Zealand: Nelson (Rotoiti, Maruia).
Cephaloziella rufobrunnea R.M.Schust.	Data Deficient	Habitat: Rare. Distribution: Endemic. Southland (Gertrude Cirque, 1740 m.)
Cephaloziella sp. In subg. Evansia	Data Deficient	CHR 593765, Pitt Island, Waipapaku Waterfall Area. In bracken fernland on burned log, P. de Lange and P. Heenan CH 1689. A species not known from New Zealand, and unlikely to be already described.
Cephaloziella varians (Gottsche) Steph. var. subantarctica (R.M.Schust.) R.M.Schust. ex J.J.Engel Cephaloziella arctica Bryhn & Douin, Cephaloziella arctica var. subantarctica R.M.Schust.	Data Deficient	After making this a southern variety of <i>C. arctica</i> , Schuster (1996) included this in a large species whose oldest name is <i>C. varians</i> . Engel (2007) made the variety a variety of <i>C. varians</i> saying "... with the placement of that species in the synonymy of <i>C. varians</i> , a realignment of variety <i>subantarctica</i> is necessary." Habitat: peaty soil along a small rill; with <i>Lophozia excisa</i> , <i>Lophozia autoica</i> , <i>Cephalozia bicuspidata</i> , <i>Hygrolembidium acrocladum</i> ; 1620 m. Distribution: Northern Hemisphere, Australia, New Zealand: Otago (Old Man Range).
Cheilolejeunea mariana (Gottsche) B.Thiers & Gradstein =Archilejeunea mariana (Gottsche) Steph.	Data Deficient	Distribution: Raoul Is.
Cheilolejeunea sp. AK 297632	Data Deficient	Hen Island - previously misidentified as <i>C. trapezia</i>
Cheilolejeunea sp. AK 303444	Data Deficient	Chatham Islands - previously misidentified as <i>C. trapezia</i>
Cheilolejeunea sp. AK 303450	Data Deficient	Chatham Islands
Chiloscyphus anisolobus J.J.Engel & Glenny 2008	Data Deficient	Endemic. Taupoiti River in upper Waimak, shaded ledge in greywacke bedrock; Pororari River at 10 m, shaded limestone ledge; Gordon's Pyramid, on rock at overhang and in sinkholes. Scattering of sites and rock types suggest it may be quite widespread.
Chiloscyphus sp.	Data deficient	Ulva island only (2003), J. Braggins one patch 0.5x0.5 m.





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Clasmatocolea unipapillosa Glenny ined.	Data Deficient	Habitat: peat soil in Schoenus pauciflorus flush on hillslope of alpine zone, there with Symphyogyna undulata, Breutelia pendula, Plagiochila retrospectans, Cheilolejeunea, Calypogeia sphagnicola; under Nothofagus solandri forest near treeline (Mt Owen), there with Clandarium xiphophyllum, Acrobolbus lophocoleoides, Adelanthus falcatus, Eotrichocolea polyacantha; 1180–1260 m. .Distribution: Endemic. Nelson (Mt Owen, Garibaldi Ridge, Sandy Peak), Westland (Buckland Peaks).
Cryptochila acinacifolia	Data Deficient	Endemic. Campbell Island (type), Fiordland (Eldrig Peak, Mt Alexander), Stewart Island (Table Hill, Mt Rocky), Westland (Kelly Range, Berggren), Western Nelson (Mt. Euclid, Glasgow Ra.). Also on Secretary Island OTA 009717, CHR H 6836 Habitat: on soil, crevices in granite, above treeline in Chionochloa tussocklands; with Radula sainsburiana, Andreaea acutifolia, Herzogobryum teres, Nothogymnomitrium erosum, Forstera sedifolia, Grammitis poeppigiana; 540–1280 m. Rare. No threat status Distribution: Australia, New Zealand: Nelson (Mt Euclid), Westland (Kelly Range – Berggren), Southland (Fiordland), Stewart Island, Campbell Island.
Cylindrocolea sp. AK 303321	Data Deficient	
Didymodon “Ihu Pott” ?undescribed	Data deficient	2 sites: Ihuamatao Manakau Harbour, leg JE Beaver damp S facing seal cliff, volcanic tuff, v 1982; ii 2008; vi 2008, thus colony stable over 26 years, but one good slip could wipe it out. "Kiwi (Mulcasters) near Wairoa" leg GOKS 1955 “on damp papa face in light bush”.
Drepanolejeunea sp. CHR 604609	Data Deficient	
Fissidens anisophyllus Dixon	Data deficient	Easily confused with F. leptocladus, which is very common. 4 known sites, most recent 2006, all Wellington Land District (both sides of Tararuas). Habitat: river bank, country roadsides, urban park (so no shortage of habitat). Seems likely is more common than records indicate.
Fissidens perangustus Broth.	Data deficient	2 localities in NZ (Ahipara leg JKB; Goldies Bush leg JEB, both N Auckland). Substrates: heavily silted bark; soft rock in stream bed with periodic flooding. Easily confused with F. curvatus, which is very common.
Heteroscyphus conjugatus (Mitt.) J.J.Engel & R.M.Schust.	Data Deficient	Recognised first in NZ by Hodgson (1965) on the basis of J. Taylor 14/1/92, subalpine meadow on the Tin Range, CHR 135198 (possibly on loan to F). CHR 571939, C. Meurk,





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Kurzia helophila var. *flaccida*
R.M.Schust. ex J.J.Engel 2008

Data Deficient

The Paps is also this species. Habitat: subalpine meadow; under *Olearia colensoi* scrub; c. 600 m. Distribution: Australia, New Zealand: Stewart Island (Tin Range, The Paps).

Kurzia moniliformis J.J.Engel 2005

Data deficient

Endemic. Fiordland Natl. Park, track from L. Mackenzie to Harris Saddle, Schuster 67-3908 (F). Known only from the type, which occurred in alpine tussock grassland, in peaty areas amidst *Sphagnum*, *Metahygrobiella drucei* and *Hygrolembidium* between 1100 and 1250 m.

Lamellocolea sp. "Watsons Creek"

Data deficient

Endemic. Known only from the type, which occurred in the Kaimai Ra. under the shade of a *Blechnum* colony in a stream valley under an open canopy of *Beilschmiedia tawa* and *Weinmannia silvicola*.

Lejeunea exilis.

Data deficient

Only known from type locality, Watsons Creek branch of Charming Creek. Paper in preparation by Engel and Glenny.

Lejeunea sp. CHR460616,

Data deficient

Kermadecs, Raoul Is.

Lejeunea sp. ex AK302674

Data deficient

Lejeunea sp. WELT H6349

Data deficient

Lepidozia laevifolia var. *alpina*

Data deficient

Endemic. Holotype: New Zealand, South Is., Fiordland Natl. Park, Gertrude Cirque NE of Homer Tunnel, below saddle on W facing exposed cliff, 1945 m, Schuster 95-2089 (herb. Schuster). Known only from type plants, which occurred admixed with *Herbertus oldfieldianus* and *Gymnomitrium strictum*, creeping amidst *Hymenophyllum*.

Lepidozia novae-zelandiae var. *heterostipa* R.M.Schust.

Data deficient

Endemic. Type: New Zealand, North Is., Tongariro Natl. Park, Tree Trunk Gorge, along west bank of Tongariro River, 15 Feb. 1995, Schuster 95-772.

Lepidozia novae-zelandiae var. *minima*
R.M.Schust.

Data deficient

Type: New Zealand, South Is., Fiordland, Falls Creek, Schuster 48802b. Type only.





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Lopholejeunea muelleriana (Gottsche)
Schiffn. var. *muelleriana*

Data deficient Australia (SO).CHR 602630, R. Lewington 1015 11 Sept 08, Manawatu Ecological Region, Wanganui, Gordon Park Reserve, NZMG 2689500E 6141400N, 39° 54.8'S, 175° 6.0'E, 10 m a.s.l., remnant of *Prumnopitys taxifolia* – *Dacrycarpus dacrydioides* forest on river flood plain with some *Alectryon excelsus* and *Beilschmiedia tawa*, on trunk of *Prumnopitys taxifolia*. With perianths. CHR 530819, D. Glenny 7148, 9 Dec 1997, Rekohu (Chatham Island), Nikau Bush Scenic Reserve, NZMS 260 C11 440764, 43° 45.5' S, 176° 34.5' E, 50 m a.s.l., *Corynocarpus laevigatus* – *Pseudopanax chathamicus* forest, on trunk of *Corynocarpus*. With perianths. AK 301092, P. J. de Lange CH1021, 28 June 2007, Rekohu (Chatham I.), Nikau Bush Scenic Reserve, NZMS 260 C11 448754, 43° 46' S, 176° 34' W, ca. 60 m a.s.l., growing on exposed mid-trunk section of *Rhopalostylis sapida* and associated with *Frullania patula*, *F. pycnantha*, and *F. squarrosula*. NOTES: Nikau Bush Scenic Reserve is one of the better protected forest remnants in the northern two-thirds of Rekohu (Chatham Island). The forest is well endowed with epiphytic liverworts, mosses, and lichens. The Wanganui site is a “pocket handkerchief” of covenanted/reserved lowland podocarp forest 450 × 350 m on the floodplain of the Wanganui River. It has 32 identified taxa of liverworts all of which favour drier habitats.

Lophozia bicrenata

Data deficient Circum-Laurasian + disjunct in southeastern Brazil (Gradstein and Pinheiro da Costa, 2003) and New Zealand: South Island (1940–1970 m). In New Zealand known only from the alpine zone at the track to Gertrude Saddle, head of Gertrude Valley, Fiordland Natl. Park.

Lophozia monoica

Data deficient Holotype: New Zealand, South Is., Fiordland, mountains above Nancy Sound, 3600 ft., Jan. 1963, Burrows s. n. (MPN, herb. Hodgson no. 12548!); isotype: (CHR=0)....we tentatively refer two collections to this species and briefly discuss them here. The first is from Mt. Brown (Westland EP, 1080 m, Glenny 9110, CHR 571758), which has only intercalary branching, mostly lateral and only a single ventral. The second (Great Moss Swamp, Otago EP, 900 m, leg. G. A. M. Scott, CHR 422491) has only lateral-intercalary branches. The plants were found on the edge of a flush through tussock grassland, with *Chiloscyphus bispinosus*, *Marchantia foliacea*, *Polytrichum commune* and *Riccardia aequicellularis*.

Marsupidium sp. CHR604607.

Data deficient





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Megaceros sp. Glenny and Renner 4037, AK#####	Data deficient	
Microlejeunea sp. AK300169	Data deficient	
Phaeoceros delicatus	Data deficient	Endemic. South Auckland (Kaingaroa, an old record), Wellington (Manawatu), Marlborough (Blue Duck Reserve). None of us have seen this species.
Phaeoceros sp. “gemmate”	Data deficient	Known from 2 sites: Chasm Creek near Seddonville; Erin Creek at Blackburn Pakihi. Likely to be more widespread in this area. Paper by Glenny & Cargill in preparation.
Plagiochila banksiana var. echinophora Inoue & R.M.Schust.	Data deficient	Habitat: ? with <i>Chiloscyphus triacanthus</i> , <i>Temnoma paucisetigerum</i> , <i>Chiloscyphus calcareus</i> . Distribution: Endemic. Type only: South Westland, Haast Pass. RJL from John Steel 21/1/07 Lewis Pass, Boyle River in <i>Nothofagus</i> forest RJL1146 3/3/09 Greenstone Track Kinlock on dripping wet verticle rock face track side
Riccardia alpicornis (Hook.f. & Taylor) Trevis.	Data deficient	Habitat: on rocks on margin of stream course, under light shade of black beech forest, ?; with <i>Plagiochila banksiana</i> , <i>Echinodium hispidum</i> , <i>Anaphalioides trinervis</i> , <i>Achrophyllum dentatum</i> , <i>Monoclea forsteri</i> ; ?-? m. Distribution: South America, Tasmania, New Zealand: Nelson (Boulder Lake, Glasgow Range), Marlborough (Pelorus Valley).
Riccardia exilis E.A.Brown	Data deficient	Habitat: roadside banks, dripping banks, stones in small stream, montane forest; ? m. Distribution: Endemic. Nelson (Boulder Lake), Westland (Waimangaroa Valley), Southland (The Chasm, Lake Thomson). There is some doubt the distinctness of this species (Brown – Glenny correspondence).
Riccardia sp. AK298538	Data deficient	Mangamuka River.
Sematophyllum WELT M7945	Data deficient	“=fiordensis” Known only from Resolution Island and Pegasus Creek and Tin Range, Stewart Island. Fiordland, Resolution Island, Duck Cove, NZMS 1 S156 883749; dripping wet vertical rock face, clearing in forest, mountain beech/kamahi/rimu forest, 20 ft. elev., Stewart Island: mouth of Pegasus Creek, on silt covered rocks at Falls, sea level,





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Telaranea elegans (Colenso) J.J.Engel & Merrill 2004

Data deficient Type: New Zealand, Great Barrier Is., Firth of Thames, 1888, Winkelmann (Colenso a.1355) (BM!, WELT!). New Zealand: North Island ([60]290–940 m); Australia: New South Wales, Queensland. In New Zealand known from a few stations in the northern sector of North Island (Waipoua Forest, Great Barrier Island, Coromandel Forest Park and the Kaimai Ra.).

Telaranea fragilifolia (R.M.Schust.) J.J.Engel & Merrill 2004

Data deficient Endemic. Holotype: New Zealand, Little Barrier Is., summit track to Mt. Hauturu, SE of summit of Mt. Herekohu, 1700–1900 ft., Schuster 57896 (F). South Island (45 m), North Island (5–580 m). Australia: Tasmania. In New Zealand known from Westland (Jackson River) and Auckland (Kopuatai Peat Dome, Little Barrier Island) EPs. The species is known only from three stations in New Zealand.

Telaranea granulata J.J.Engel 2003

Data deficient Endemic. North Auckland Prov., Waima Forest, Hauturu Highpoint Track in vicinity of summit area of Hauturu Trig, off Waiotemarama Track, 650–680 m, Engel 22594 (F). Endemic to New Zealand: North Island (650–680 m), Three Kings Islands. Known only from two specimens. The type is from a wind-pruned scrub consisting of *Coprosma grandifolia*, *Melicytus ramiflorus* and *Olearia rani* at 650–680 m. Plants occurred epiphyllous on *Hymenophyllum* sp. on a deeply shaded log with other filmy ferns. The Three Kings Islands specimen occurred on rock in a stream shaded by *Kunzea* canopy, growing with *Distichophyllum*, *Balantiopsis*, *Leiomitra lanata* and *Riccardia*. A third specimen was collected in 2008 at the Catlins, Tautuku Lodge, also on rock by a stream.

Telaranea lindenbergii var. *mellea* J.J.Engel & Merrill 1994

Data deficient Endemic. Holotype: New Zealand, South Is., Otago Prov., near Herbert, Allison H5674 (CHR); isotype: (F). Known also from a single station in North Island, near Rotorua. Recorded for Stewart Island, E&M B44:86

Telaranea lindenbergii var. *papillata* J.J.Engel & Merrill 2004

Data deficient Endemic. Holotype: New Zealand, North Is., South Auckland Prov., Whareorino Forest, track to Leitch's Hut, 280 m, Engel 23773 – c. sporo. (F); isotype: (AK). The type and only known plant occurred on clay banks under a *Blechnum novae-zelandiae* overhang, with *Weinmannia* and *Dicksonia squarrosa* as the dominant forest canopy and with occasional *Leptospermum scoparium*.

Telaranea patentissima var. *ampliata* J.J.Engel & Merrill, 2004.

Data deficient Tasmania, Lake Gordon and Lake St Calir, Endemic. Holotype: New Zealand, Otago Prov., Mt. Maungatua, W of Mosgiel, 500 m, Engel 17777 – c. sporo. (F); isotype: (CHR). Engel22818 Nelson lakes National Park, Hatcher 29 from Rotorua. (See Fieldiana Bot44:50





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Telaranea patentissima var. zebrina J.J.Engel & Merrill, 2004.	Data deficient	Endemic. Holotype: New Zealand, North Is., Puketi Forest, 6 Dec. 1993, Braggins 93/172 (AKU); isotype: (F). Engel and Merrill in Fieldian Bot 44: 50 have this taxa ax common and give a page of specimens	
Temnoma palmatum var. laxifolium R.M.Schust., 1966	Data deficient	Habitat: ?. Distribution: Endemic. Taranaki, Wellington (type: between Ngauruhoe and Tongariro, Soda Springs at head of Mangatepopo Stream, 4500'), Nelson, Westland, Otago.	
Temnoma quadripartitum var. pseudopungens R.M.Schust., 1967 (1966).	Data deficient	Known only from Stewart Island and Otago and Westland Prov. in South Island, New Zealand. It is aquatic to subaquatic, occurring in shallow, flowing rivulets or boggy niches in open areas (300–1170 m).	
Temnoma quadripartitum var. randii (S.W.Arnell) R.M.Schust.	Data deficient	Type: New Zealand, South Is., Otago Prov., just S of Haast Pass, 1780–1810 ft., Schuster 49649a. Distribution and Ecology: Known only from the type, occurring with Adelanthus gemmiparus and Heteroscyphus cymbaliferus on damp ledges along a small rill in a Nothofagus menziesii forest at ca. 550 m (South Island, New Zealand).Telaranea quadripartitum var. pseudopungens	
Treubia lacunosa “crisped” sensu Schuster and Scott (1969).	Data deficient		
Treubia lacunosa “hygrophytic” sensu Schuster and Scott (1969)	Data deficient		
Treubia pygmaea Schuster 1985	Data deficient		
Tritomaria exsecta subsp. novaezelandiae J.J.Engel 2006	Data deficient	Type: Marion Island, Rand 3276. Distribution and Ecology: The variety may represent a mere meso-hygrophytic extreme of Temnoma quadripartitum (Schuster, 1967a). The variety occurs in southern South America, Marion Island, St. Paul Island and one New Zealand station—along a water course at 1315–1435 m on Mt. Hector, Tararua Ra.	
Drepanolejeunea pentadactyla	Drepanolejeunea aff. pentadactyla	Coloniser	One Mangamuka Gorge (far North) record (2003) - 2 collections from same tree. Secure in Australia.
Aloina ambigua (B.S.G.) Limpr		Coloniser	Newly recorded for New Zealand. Common in Australia. 2 sites: roadside above Tukituki River, Hawkes Bay. (JEB & REB xi 2007, i 2009). Habitat: Shaded, dry site, c. 6 plants; Exposed roadside water runnel 1000's plants (c. 4 m2). Has persisted at site for 14 months, copious spore production. Highly distinctive and never recorded – suggests new arrival (with or without human assistance).





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Crossidium davidai Catcheside	Crossidium davidai Catcheside	Vagrant	No new NZ records - one specimen only (despite further searches? ?AJF) (Banks Peninsula leg AJF and BMcM 1983) Helen Jolley (MEL) doing morphometric study of Crossidium, suggests NZ material is Tortula acaulon, (earlier known as Phascum cuspidatum and considered to be Introduced). Considerable doubt as to the validity of C. davidai records in N Hemisphere.
Goniomitrium acuminatum Hook. & Wilson	Goniomitrium acuminatum Hook. & Wilson	Vagrant	
Crossidium geheebii (Broth.) Broth.	Crossidium geheebii (Broth.) Broth.	Vagrant	No new NZ records. Probably all Napier (leg. Colenso, leg Reader 1882, leg. Berggren, 1874; leg West, 1937). Been searched for (JEB & REB, extensively in Napier region, iv and xi 2007). Catcheside 1980 "fairly common in S. Australia".
Entosthodon muehlenbergii (Turner) Fife	Entosthodon muehlenbergii (Turner) Fife	Vagrant	Arrow R. and Matukituki R., Otago + Banks Peninsula and Godley Head, Canterbury Banks P. material sterile and id. less certain. S: Canterbury (Godley Head), Otago (Arrow R., Matukituki R.). Nearly cosmopolitan. Tasmania*, Australia*, Africa* western North America*, Europe*, Middle East*. The collection from Godley Head was made from a silt bank associated with basalt bedrock at 120 m a.s.l.; that from the Matukituki R. was collected from soil in a schist crevice at c. 300 m a.s.l.; and the Arrow River collection (Petrie, WELT) bears no habitat details.
Aloina bifrons (De Not.) Delgadillo	Aloina bifrons (De Not.) Delgadillo	Vagrant	No new records: Napier (Berggren 1874, Frey 1994). JEB and REB searched Frey site April and November 2007. Fairly common in Australia - Catcheside, Mosses of S. Australia.
Tortula "red costa" = ?Phascopsis rubicunda I.G.Stone		Vagrant	Last seen 1951, 8 specimens from Hawkes Bay and Wellington; under taxonomic review in Australia. Last seen 1951. 8 specimens, Hawkes Bay, maybe 3 sites, all leg GOKS (1931 – 1951), plus leg Berggren 1874 "Wellington". Habitat costal, eg "In dense mats covering square yards of bare silty ground at edge of brackish lagoon". Capsules unknown. If found could confirm tentative det as Phascopsis rubicunda.
Telaranea herzogii	Telaranea exigua	Not threatened	Includes Telaranea exigua
Andrewsianthus cuspidatus	Cephalolobus squarrosus	Not threatened	Includes Cephalolobus squarrosus, and probably Andrewsianthus confusus
"Lejeunea hodgsoniana"	Rectolejeunea sp.	Not threatened	Unpublished name on herbarium sheet; was Rectolejeunea sp. More collections and better determinations.





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Acromastigum cunninghamii	Acromastigum cunninghamii	Not threatened	More localities found since last listing
Acromastigum marginatum	Acromastigum marginatum	Not threatened	More localities found since last listing
Bazzania nova	Bazzania nova	Not threatened	many more recent records now what to look for understood.
Buxbaumia novae-zelandiae Dixon	Buxbaumia novae-zelandiae Dixon	Not threatened	Too common for NU; only readily identified when fruiting. N: N Auckland, incl. offs. is (GB), S Auckland (Rotorua-Taupo-Kaingaroa area, Pongakawa), Hawke's Bay (Wairoa), Wellington (Francis Stream); S: Nelson (Abel Tasman National Park), Westland (Barrytown). Endemic or possibly Australasian. Growing mostly on shaded rock (greywacke, granite, volcanics) or occasionally on gravel, in open or forest situations. Mostly as isolated plants in mixed bryophyte mats. On N from c. 50–510 m; known from two (three????) S collections, two from near sea level and one at c. 250 m.
Drucella integristipula	Drucella integristipula	Not threatened	Widespread on road banks and some stream banks
Lejeunea helmsiana	Papillolejeunea pocsii	Not threatened	Formerly Papillolejeunea pocsii
Metzgeria bartlettii	Metzgeria bartlettii	Not threatened	
Pachyschistochila latiloba	Pachyschistochila latiloba	Not threatened	
Pseudocephalozia lepidozioides	Pseudocephalozia lepidozioides	Not threatened	Many new records
Blindia lewinskyae	Blindia lewinskyae	Not threatened	Nelson (Takaka Hill, Denniston Plateau, Mt. Rochfort, Big R. nr. Reefton, nr. Ikamatua), Westland (Teremakau R., nr. Kumara, Grey R. nr. Totara Flat, Ahaura R., Big R., Okarito and vicinity). This species is abundant in the Waimangaroa R. and its tributaries on the Denniston Plateau. Partial decline likely at Stockton - important population.
Leptolejeunea elliptica subsp. subacuta	Leptolejeunea elliptica subsp. subacuta	Not threatened	Riparian margins
Macromitrium brevicaule	Macromitrium brevicaule	Not threatened	Habitat is very precise, almost always landward side of rock stacks on sea coast. J suggests is not DP. Dale Vitt has 25 Northland localities in 1983. Tropical species reaching S limits in NZ. Also Australia: Qld, NSW, Lord Howe, Norfolk, New Cal. Not difficult to identify.
Marchantia macropora	Marchantia macropora	Not threatened	Restricted to wet dripping cliffs (including concrete)





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Paracromastigum drucei	Paracromastigum drucei	Not threatened	Loess and ash banks
Riccardia pennata	Riccardia pennata	Not threatened	
Heteroscyphus normalis	Chiloscyphus beckettianus	Not threatened	
Lejeunea sp. 799 AK291280	Lejeunea sp. 799	Not threatened	Formerly Lejeunea sp. 799
Lejeunea tasmanica	Lejeunea sp. 768	Not threatened	Formerly listed as Lejeunea sp. 768 and Lejeunea "no lobes"
Paracromastigum macrostipum	Paracromastigum kirkii	Not threatened	Includes Paracromastigum kirkii
Zoopsis ceratophylla	Paracromastigum fissifolium	Not threatened	Includes Paracromastigum fissifolium
Anthelia juratzkana	Anthelia juratzkana	Not threatened	Widespread in snow melt sites.
Frullania falciloba Tayl. & Lehm.	Frullania falciloba Tayl. & Lehm.	Not threatened	
Frullania subrostrata Hatt.	Frullania subrostrata Hatt.	Not threatened	
Riccardia aff. wattiana (Steph.) Hewson	Riccardia aff. wattiana	Not threatened	Habitat: soil, rock, on streambanks; lowland forest; ? m. Distribution: Australia, New Zealand: North Auckland (Mangamuka River, Waitakere Range), South Auckland (Wairere Falls).
Riccardia asperulata	Riccardia asperulata	Not threatened	
Telaranea tubifera	Telaranea tubifera	Not threatened	
Zoopsis macrophylla	Zoopsis macrophylla	Not threatened	
Acrolejeunea mollis (Hook.f. & Taylor) Schiffn.		Not Threatened	Habitat: bark of Knightia, Cordyline australis, Kunzea ericoides; sandy soil amongst coastal rocks; with Frullania, Papillaria, Lejeunea, Macromitrium; 140 m. Distribution: Endemic. South Auckland (Coromandel, Kopuatai Swamp), Gisborne (Hicks Bay), Hawkes Bay (Wairoa).
Camptochaete aciphylla Dixon & Sainsbury		Not threatened	3 Chathams localities (leg PdL 2006, 2007, 2008)
Campylopus acuminatus var. kirkii		Not threatened	Habitat threatened. Jessica - only recent sightings in Waikato and Chathams. 1 JTL specimen Golden Bay





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Cheilolejeunea campbelliensis (Steph.) R.M.Schust. Cheilolejeunea celata M.A.M.Renner & Glenny	Not Threatened	Habitat: epiphyllous on Hymenophyllum villosum, epimuscolous on Breutelia elongata, Clandarium xiphophyllum, Dendroligotrichum dendroides in subalpine forest and scrub; with Frullania aterrima, Nephelolejeunea papillosa, Colura saccophylla; 1000–1050 m. Distribution: Tasmania, New Zealand: Taranaki (Pouakai Range), Canterbury (Cronin Stream), Auckland Islands, Campbell Island.
Cheilolejeunea mimosa	Not threatened	
Pendulothecium oblongifolium (Hook.f. & Wilson) Enroth & S.He	Not threatened	
Pseudoleskea imbricata	Not threatened	Rarely seen: Exposed rock Taranga (Hen I) and Sturms Gully (Napier), JTL 2 Otago. Only 5 localities in AK, from Taranga to Otago. Not difficult to identify. Habitat and distribution poorly understood.
Ptychomnion densifolium (Brid.) A.Jaeger	Not threatened	???? N: Wellington (Ruahine Ra., Tararua Ra.); S: Nelson (numerous collections from Cobb V. area, Matiri Ra., Mt Priestly), Canterbury (Broad Stream, Worryline Stream), Westland (Pegleg Ck., Newton Ra., Wilberg Ra., Moeraki R., Fraser Cr.), Southland (Gertrude V., Longwood Ra.), St, A, C. Recorded from M by Seppelt (2004). Austral. Argentina*, Tristan d'Acunha*. Mainly occurring at insolated sites (e.g. grassy banks, ledges) in subalpine or alpine grassland or mixed grassland scrub, often with Chionochloa pallens and various species of Olearia and Dracophyllum present. Less often in dense subalpine scrub or gaps in Nothofagus forest. Often occurring on humus over rock.
Racomitrium curiosissimum Bednarek- Ochyra & Ochyra	Not threatened	N: Wellington (nr. Rimutaka Road summit, upper Orongorongo catchment); S: Canterbury (Mt. Grey, Mt. Ararat, Bankside Res., Banks Pen., Ben More, Cave Stream, Rakaia R., Erewhon), Otago (Leith V., Pine Hill, Otago Pen.). Endemic
Telaranea perfragilis J.J.Engel & G.L.Sm.	Not threatened	Habitat: dry soil caves within forest, 95–360 m. Distribution: Endemic. North Auckland, Wellington (Ruahine Range), Westland. RJL 0914B Wainui Water Reserve on underside of rotting log with Schistochila repleta
Telaranea trilobata (R.M.Schust.) J.J.Engel & G.L.Sm. Kurzia quadriseta var. trilobata R.M.Schust.	Not threatened	Habitat: lowland forest, otherwise unknown for NZ. Distribution: Tasmania (common there), Victoria, Queensland. New Zealand: Auckland Islands, Campbell Island, Milford Sound (track to Bowen Falls).





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Thamnobryum pumilum (Hook.f. & Wilson) B.C.Tan

Not threatened

N: S Auckland (Kopuatai Peat Dome, Rotorua), Wellington (Te Marua); S: Marlborough (Ship Cove), Canterbury (Riccarton Bush), Otago (Berwick), Southland (Bluff). Australasian (or Austral?). Tasmania*. Reported from mainland Australia and South America by Scott & Stone (1976, p. 379). Occurring on streamside rock (e.g. schist), on exposed roots (of *Dacrycarpus dacrydioides* or *Beilschmiedia tawa*), or on fallen logs; one collection is from “wet shady ground.”

Treubia lacunosa

Not threatened

Treubia lacunosa was neotypified by Pfeiffer et al. (2002) on the basis of: New Zealand, South Island, Haast Pass; on soil in *Nothofagus menziesii*-*N. fusca* forest; 780 m; 24.2.1998; W. Frey 98-Mo28 (Neotype CHR, isoneotypes HO, herbaria of W. Frey and T. Pfeiffer). This neotype is equivalent to *T. lacunosa* “shade” sensu Schuster and Scott (1969)

Treubia lacunosoides Pfeiffer et al. 2002.

Not threatened

Treubia lacunosoides was described as new on the basis of: New Zealand, North Island, Urewera National Park, Track to Lake Waikareiti; vertical clay bank along track; 700 m; 21.3.1998; T. Pfeiffer 98-Mo61 (Holotype CHR, isotypes HO and herbaria of W. Frey and T. Pfeiffer) due to 15 substitutions and two single base pair indels observed in the trnL-F region. The trnL-F region is usually conserved within species, and changes of this nature are typically indicative of species level differences. *Treubia lacunosoides* is equivalent to *T. lacunosa* “sun” sensu Schuster and Scott (1969).

Trichotemnoma corrugatum

Not threatened

Partial decline likley at Stockton - important population.

Tortula mucronifolia Schwaegr.

Tortula mucronifolia
Schwaegr.

Introduced &
naturalised

No new localities: 3 localities in Otago, leg JT Linzey 1964 – 1966. JEB & REB searched one JTL site, and elsewhere in Otago, Jan 2006. (Is a big c.fr. *Tortula*. JTLs gatherings fruiting, xii and i). Peter Beveridge has explored a lot in Otago and not found. Not turned up at Wanaka Bryophyte workshop.

