

Hymenophyllum multifidum

COMMON NAMES

much-divided filmy fern

BIOSTATUS

Native – Endemic taxon

CURRENT CONSERVATION STATUS

2023 | Not Threatened | Qualifiers: SO

[Jump to previous conservation statuses](#)

CATEGORY

Vascular

STRUCTURAL CLASS

Ferns

DETAILED DESCRIPTION

Terrestrial or epiphytic fern often forming thick patches on substrate.

Rhizomes long-creeping, slender, much branched and interwoven.

Fronds bright or dark green. **Stipes** 20–100 mm, slender, glabrous, sometimes winged above; rachises winged throughout. **Laminae** broader than long or elliptic to deltoid, 3–4-pinnate, 30–200 × 15–100 mm, glabrous. **Ultimate segments** linear, margins toothed. **Sori** large and conspicuous, on short segments, 1–several on each primary pinna, usually set at 90° to plane of frond. **Indusium** connate, tubular; flaps margins entire, sometimes also undulose, receptacle usually exserted. (Description adapted from Brownsey & Smith-Dodsworth (2000)).

SIMILAR TAXA

Except for reduced specimens, *Hymenophyllum multifidum* is easily recognised by the deeply toothed pinnae, and prominent sori bent at right-angles to the plane of the frond, by the tubular indusia, entire often undulose indusial flaps and exserted receptacle. Reduced states can be confused with *Hymenophyllum minimum* which is easily distinguished by the solitary sori terminating the rachises, and by the toothed indusial flaps and spinose abaxial surfaces of the indusia, and from *H. cupressiforme* by the stipe which is only partially winged rather than winged throughout, and by the sori which are bent at right-angles to the plane of the frond. The indusial flaps of *Hymenophyllum cupressiforme* are often slightly toothed.

DISTRIBUTION

Endemic. New Zealand. North Island, South Island, Stewart Island/Rakiura, Chatham Islands, Antipodes Islands, Auckland Islands, Campbell Island/Motu Ihupuku.

HABITAT

Widespread in coastal to montane forest and subalpine scrub. A common ground cover of the forest floor, as well as epiphytic, also common on rock faces, boulders and on shaded rock overhangs.

GENUS

Hymenophyllum

FAMILY

Hymenophyllaceae

AUTHORITY

Hymenophyllum multifidum (G. Forst.) Sw.



Rangaika, Chatham Island. Photographer: Jeremy R. Rolfe, Date taken: 01/06/2013, Licence: CC BY.



Sori. Stokes Valley, Lower Hutt. Photographer: Jeremy R. Rolfe, Date taken: 13/09/2006, Licence: CC BY.

SYNONYMS

Mecodium multifidum (G. Forst.) Copel.; Hymenophyllum multifidum var. oligocarpum (Colenso) Domin; Trichomanes multifidum G.Forst.; Hymenophyllum multifidum var. truncatum (Colenso) Domin; Hymenophyllum multifidum var. alpinum (Colenso) Domin; Hymenophyllum oligocarpum Colenso; Hymenophyllum truncatum Colenso; Davallia multifidum (G.Forst.) Spreng.; Hymenophyllum alpinum Colenso

ENDEMIC TAXON

Yes

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

LIFE CYCLE AND DISPERSAL

Minute spores are wind dispersed (Thorsen et al., 2009).

PROPAGATION TECHNIQUE

Difficult—should not be removed from the wild

WETLAND PLANT INDICATOR STATUS RATING

UPL: Obligate Upland

Rarely is a hydrophyte, almost always in uplands (non-wetlands).

ETYMOLOGY

hymenophyllum: Membranous leaf, from the Greek humen and phullon

multifidum: Much divided; from the Latin multus and findere; the leaf

NVS CODE

HYMMUL

CHROMOSOME NUMBER

2n = 52

PREVIOUS CONSERVATION STATUSES

2017 | Not Threatened | Qualifiers: SO

2012 | Not Threatened

2009 | Not Threatened

2004 | Not Threatened

[Jump to current conservation status](#)

REGIONAL CONSERVATION STATUSES

Auckland: 2025 | Regionally Not Threatened | Qualifiers: DPS, DPT Help

The regional threat classification system leverages off the national assessments in the NZTCS, providing information relevant for the regional context. Auckland conservation status information is sourced from the "[Conservation status of vascular plant species in Tāmaki Makaurau / Auckland](#)" Simpkins E et al. (2025) report.

Otago: 2025 | Regionally Not Threatened Help

The regional threat classification system leverages off the national assessments in the NZTCS, providing information relevant for the regional context. Otago conservation status information is sourced from the "[Conservation Status of Indigenous Vascular Plants in Otago, 2025](#)" Jarvie S et al. (2025) report.

REFERENCES AND FURTHER READING

Brownsey PJ, Smith-Dodsworth JC. 2000. New Zealand Ferns and Allied Plants. David Bateman, Auckland, NZ. 168 p.

Thorsen MJ, Dickinson KJM, Seddon PJ. 2009. Seed dispersal systems in the New Zealand flora. *Perspectives in Plant Ecology, Evolution and Systematics* 11: 285–309. <https://doi.org/10.1016/j.ppees.2009.06.001>.

ATTRIBUTION

Fact Sheet Prepared for NZPCN by P.J. de Lange (20 April 2011). Description adapted from Brownsey & Smith-Dodsworth (2000).

MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/hymenophyllum-multifidum/>

PDF DATE

25 May 2026