

Hymenophyllum revolutum

COMMON NAME

filmy fern

SYNONYMS

Hymenophyllum tunbridgense var. *cupressiforme* sensu Hook.;
Hymenophyllum pusillum Colenso; *Hymenophyllum tunbridgense* sensu
A.Rich.; *Hymenophyllum zeelandicum* Bosch

FAMILY

Hymenophyllaceae

AUTHORITY

Hymenophyllum revolutum Colenso

FLORA CATEGORY

Vascular – Native

ENDEMIC TAXON

Yes

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

STRUCTURAL CLASS

Ferns

NVS CODE

HYMREV

CHROMOSOME NUMBER

$2n = 72$

CURRENT CONSERVATION STATUS

2012 | Not Threatened

PREVIOUS CONSERVATION STATUSES

2009 | Not Threatened

2004 | Not Threatened

DISTRIBUTION

Endemic. New Zealand: North, South, Stewart and Chatham Islands.

HABITAT

Coastal to montane. Found throughout New Zealand usually in closed forest where it most commonly epiphytic but also found on rocks, cliff faces, fallen logs, on moss covered hummocks and sometimes on the ground.

FEATURES

Epiphytic and/or terrestrial fern forming in ideal situations an extensive turf-like patches on substrate. Rhizomes long-creeping, very thin, much-branched and interwoven, wiry when fresh, brittle when dry. Fronds light green. Stipes 5-30 mm long, thin, brittle, glabrescent, not winged; rachis narrowly winged in upper portion. Laminae 10-90 × 5-20 mm, narrowly elliptic to ovate, 2-3-pinnate. Ultimate segments linear to oblong, often forked, margins deeply toothed. Sori on short winged branches near rachis, 1 on acroscopic margin of each primary pinnae. Indusial flaps deeply toothed, teeth irregular. Description adapted from Brownsey & Smith-Dodsworth (2000).



Stokes Valley, Lower Hutt. Photographer: Jeremy Rolfe



Upper Hutt. Photographer: Jeremy Rolfe

SIMILAR TAXA

Morphologically similar to *Hymenophyllum cupressiforme* and *H. peltatum*, species from which it is distinguished by its partially winged rachis and by the very deeply toothed indusial flaps

FLOWERING

N.A.

FLOWER COLOURS

No flowers

FRUITING

N.A.

LIFE CYCLE

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

PROPAGATION TECHNIQUE

Difficult - should not be removed from the wild

ETYMOLOGY

hymenophyllum: Membranous leaf, from the Greek humen and phullon

WHERE TO BUY

Not commercially available

ATTRIBUTION

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

REFERENCES AND FURTHER READING

Brownsey, P.J.; Smith-Dodsworth, J.C. 2000: *New Zealand Ferns and Allied Plants*. Auckland, David Bateman
Thorsen, M. J.; Dickinson, K. J. M.; Seddon, P. J. 2009. Seed dispersal systems in the New Zealand flora. *Perspectives in Plant Ecology, Evolution and Systematics* 11: 285-309

NZPCN FACT SHEET CITATION

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<https://www.nzpcn.org.nz/flora/species/hymenophyllum-revolutum/> (Date website was queried)

MORE INFORMATION

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