

Trichomanes endlicherianum

SYNONYMS

Crepidomanes endlicherianum (C.Presl) P.S. Green; *Crepidopteris endlicheriana* (C. Presl) Copel.; *Trichomanes humile* sensu Hook.f.; *Reediella endlicheriana* (C.Presl) Pic.Serm.; *Polyphlebium endlicherianum* (C.Presl) Ebihara et K.Iwats.

FAMILY

Hymenophyllaceae

AUTHORITY

Trichomanes endlicherianum C.Presl

FLORA CATEGORY

Vascular – Native

ENDEMIC TAXON

No

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

STRUCTURAL CLASS

Ferns

NVS CODE

TRIEND

CURRENT CONSERVATION STATUS

2012 | Not Threatened

PREVIOUS CONSERVATION STATUSES

2009 | Not Threatened

2004 | Not Threatened

DISTRIBUTION

Indigenous. New Zealand: Kermadec (Raoul Island), Three Kings, North, South and Chatham Islands. Also Australia, Borneo, New Guinea, Vanuatu, Fiji, Samoa, Tahiti and Norfolk Island (the type locality). Common in the North Island but scarce over much of the South Island part of its range.

HABITAT

Coastal to montane but most common in lowland closed forest. Usually found growing along streams sides in deeply shaded sites on rocks, overhangs and in crevices. Because of this habitat preference it is very easily overlooked.

FEATURES

Terrestrial (rarely epiphytic) fern forming dense carpets on suitable substrates. Rhizomes c.0.1 mm diameter, long-creeping; hairs dense short, red-brown. Fronds 13-40(-100) mm long, dark green. Stipes widely spaced, 3-13(-25) mm long, winged almost to the base. Rachises winged. Lamina 11-40(-80) × 5-15(-25) m, narrowly ovate to linear, deeply 2-3-pinnatifid. Ultimate segments 0.5-0.7 mm wide; margins entire; marginal cells clear, elongate, with oblique end walls; apices obtuse, often notched; false veins absent. Sori immersed in short, basal acroscopic segments of the pinnae; involucre funnellform, 1.5-2.0 × 1.0-1.5 mm wide, winged; mouth dilated, entire; receptacle exerted up to 4 mm beyond mouth.



Silverstream, Upper Hutt. Photographer: Jeremy Rolfe



Silverstream, Upper Hutt. Photographer: Jeremy Rolfe

SIMILAR TAXA

Of the New Zealand species *Trichomanes endlicherianum* is most likely to be confused with *T. colensoi* which is a much less common plant of montane forested habitats. *Trichomanes colensoi* differs from *T. endlicherianum* by its more widely spaced pinnae, the lack of a wing on the stipes or rachises, finely divided fronds and stalked (pedunculate) indusia. From *Trichomanes endlicherianum* the New Zealand form of *T. caudatum* differs by its deltoid frond and by the lobed involucre of the fruiting receptacle and by its epiphytic habit. *Trichomanes venosum* is easily distinguished from both these species by its conspicuously veined pinnae.

FLOWERING

N.A.

FLOWER COLOURS

No flowers

FRUITING

N.A.

PROPAGATION TECHNIQUE

Difficult - should not be removed from the wild

ETYMOLOGY

trichomanes: From the ancient Greek name used by Theophrastus and Dioscorides, for a type of fern; refers to the slender hair projecting from each spore case

WHERE TO BUY

Not commercially available

TAXONOMIC NOTES

Previously NZPCN had followed Ebihara et al. (2006) in recognising *Abrodictyum* as distinct from *Trichomanes* - recently Brownsey & Perrie (2016) have rejected this idea favouring a return to the past broad circumscription of *Trichomanes* used in New Zealand.

ATTRIBUTION

Fact sheet prepared for NZPCN by P.J. de Lange (23 April 2011). Description adapted from Bostock & Spokes (1998).

REFERENCES AND FURTHER READING

Bostock, P.D.; Spokes, T.M. 1998: Hymenophyllaceae. Flora of Australia. Vol. 48: 116-148.
Brownsey, P.J. & Perrie, L.R. 2016: Hymenophyllaceae. In: Breitwieser, I.; Heenan, P.B.; Wilton, A.D. Flora of New Zealand - Ferns and Lycophytes. Fascicle 15. Manaaki Whenua Press, Lincoln.
Ebihara, A.; Dubuisson, J.-Y.; Iwatsuki, K.; Hennequin, S.; Ito, M. 2006: A taxonomic revision of the Hymenophyllaceae. *Blumea* 51: 2-57.

NZPCN FACT SHEET CITATION

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

MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/trichomanes-endlicherianum/>