

# Frullania toropuku

## COMMON NAMES

Liverwort

## BIOSTATUS

Native – Endemic taxon

## CURRENT CONSERVATION STATUS

2020 | Data Deficient

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## CATEGORY

Non-vascular

## STRUCTURAL CLASS

Liverworts

## SIMPLIFIED DESCRIPTION

Minute reddish-brown, monoicous foliose liverwort; perianth plicate, 3 major keels + 2–3 supplementary keels, the perianth surface conspicuously ornamented, bullate; the first branch leaf (BL1) of a Frullania-type branch often reduced in size and atypical of the normal stem leaves, with all three segments explanate or at most sulcate, and leaves characteristic of the main stem not developing until either BL2, BL3 or BL4

## DISTRIBUTION

Endemic. New Zealand: North and Stewart Islands - known from North Cape (Surville Cliffs), Little Barrier Island, Table Mountain, and from Stewart Island (Paterson Inlet)

## HABITAT

Variably - has been collected from serpentinite rock and associated saprolite in a small forest remnant; also from the trunks of trees in cloud forest, and from tree trunks in coastal forest.

## THREATS

Probably not threatened, and probably will prove to be a naturally uncommon, biologically sparse species. However, at this stage there is insufficient information to make a definitive assessment, and this is why *Frullania toropuku* is listed as 'Data Deficient'. *Frullania toropuku* is part of the *F. rostrata* complex, it is minute, and very hard to recognise in the field - this makes surveying for it difficult, and as it may well be that determining an accurate conservation status will prove impractical.

## GENUS

Frullania

## FAMILY

Frullaniaceae

## AUTHORITY

*Frullania toropuku* von Konrat, de Lange et Larrain

## SYNONYMS

None. First described in 2013

## ENDEMIC TAXON

Yes

## ENDEMIC GENUS

No

## ENDEMIC FAMILY

No

## FLOWERING

Not Applicable - species reproduces by spores



## FRUITING

Unknown - the four collections are all fruiting and these were made between October and February

## LIFE CYCLE AND DISPERSAL

Capsules are water and possibly also wind dispersed (Thorsen et al., 2009).

## PREVIOUS CONSERVATION STATUS

2013 | Data Deficient

[Jump to current conservation status](#)

## REFERENCES AND FURTHER READING

Von Konrat, M.; de Lange, P.; Larraín, J.; Hentschel, J.; Carter, B.; Shaw, J.; Shaw, B. 2013. A small world: uncovering hidden diversity in *Frullania* – a new species from Aotearoa-New Zealand. *Polish Journal of Botany* 58: 437–447.

DOI: 10.2478/pbj-2013-0056

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* 2009 Vol. 11 No. 4 pp. 285-309

## ATTRIBUTION

Fact sheet prepared for NZPCN by P.J. de Lange 29 January 2013. Description adapted from von Konrat et al. (2013).

## NZPCN FACT SHEET CITATION

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## MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/frullania-toropuku/>

## PDF DATE

27 May 2026