

Cololejeunea cardiocarpa

COMMON NAME

Liverwort

SYNONYMS

Lejeunea cardiocarpa Mont.

FAMILY

Lejeuneaceae

AUTHORITY

Cololejeunea cardiocarpa (Mont.) R.M.Schust.

FLORA CATEGORY

Non-vascular – Native

ENDEMIC TAXON

No

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

STRUCTURAL CLASS

Liverworts

NVS CODE

COLCAR

CURRENT CONSERVATION STATUS

2009 | Data Deficient | Qualifiers: OL, SO

PREVIOUS CONSERVATION STATUS

2004 | Threatened – Nationally Critical

DISTRIBUTION

Indigenous. Known in New Zealand from a single gathering made from the Alderman Islands. Also U.S. A., S.E. Asia, Pacific, Australia and Africa.

DETAILED DESCRIPTION

Plants small, consisting of isolated stems appressed to the substrate. Shoots usually 600–800 µm wide. Stems are slender, c. 34–36 µm wide, producing small fascicles of rhizoids near and slightly below the base of each leaf. The leaves are flat when wet or dry, closely appressed to the substrate, ovate, widely spreading, somewhat imbricate, the dorsal base somewhat overlapping the stem. The lobe is c.330–380 µm long by 225–245 µm wide, with both margins slightly curved to nearly straight, with the apex blunt to rounded, and the base strongly narrowed. The apex of mature and well developed leaves is tipped with a group of hyaline fingerlike empty cells (these being c.9–14 × 30–46 µm). The lobule is inflated, broadly ellipsoidal, strongly constricted at the base, averaging c.0.35–0.4× as long as the lobe, 120–150 µm long × 120–135 µm wide; keel convex, barely crenulate because of the convex cells, lobule apex marked by an obtuse 1-celled tooth; midway between this tooth and the keel is an elongate 2-celled apical tooth c.38 µm long. All cells are of one type, thin-walled and with small trigones. The cells are 13–15(–18) µm diameter near apex and on margin and (12)–16–17 × 17–22 µm medially. Oil bodies of the New Zealand material (2–)3–7 per cell, sub spherical in leaf cells and 2–3 µm diameter, coarsely granular.

FRUITING

Fruits have not been seen in New Zealand



THREATS

Probably not threatened. Listed because currently it is known from New Zealand only as a single, fragmentary specimen collected from the Alderman Islands. As this species is very small and easily overlooked it best qualifies as Data Deficient. There are no obvious threats to this species at its sole known New Zealand location, which is a Nature Reserve with permit only access. This species needs to be looked for elsewhere in northern New Zealand.

SUBSTRATE

Epiphyllous. Recorded once from pohutukawa (*Metrosideros excelsa* Sol ex Gaertn.) leaves

ATTRIBUTION

Fact sheet prepared for NZPCN by P.J. de Lange (30 October 2006). Description adapted from Braggins (1999).

REFERENCES AND FURTHER READING

Braggins, J.E. 1999: *Cololejeunea cardiocarpa* (Lejeuneaceae) a new hepatic record in New Zealand. *New Zealand Journal of Botany* 37: 79-82.

NZPCN FACT SHEET CITATION

Please cite as: de Lange, P.J. (Year at time of access): *Cololejeunea cardiocarpa* Fact Sheet (content continuously updated). New Zealand Plant Conservation Network.

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

MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/cololejeunea-cardiocarpa/>