# Menegazzia castanea

## **FAMILY**

Parmeliaceae

#### **AUTHORITY**

Menegazzia castanea P.James & D.J.Galloway

#### **FLORA CATEGORY**

Lichen - Native

## **ENDEMIC TAXON**

No

#### **ENDEMIC GENUS**

No

#### **ENDEMIC FAMILY**

Νo

## STRUCTURAL CLASS

Lichens - Foliose

## **CURRENT CONSERVATION STATUS**

2018 | At Risk - Naturally Uncommon | Qualifiers: RR, Sp, TO

### **BRIEF DESCRIPTION**

Characterised by its saxicolous habit, ±regular thallus rosettes, coarse-granular soredia arising from pustules, and 2-spored asci.

## **DISTRIBUTION**

**South Island**: Canterbury (Godley Valley, Kirkliston Range) to Southland.

**Campbell Island**: (Mt Honey). **Macquarie Island**. Also known from Tasmania where it is uncommon.

# **HABITAT**

East of the Main Divide, alpine or subalpine on rock, occasionally on soil or among mosses on soil, 1000–2000 m in New Zealand, lower in the subantarctic islands.





Saxicolous, North Arm Fiordland. Photographer: Marley Ford, Date taken: 10/03/2023, Licence: CC BY-NC.



Saxicolous, North Arm Fiordland. Photographer: Marley Ford, Date taken: 10/03/2023, Licence: CC BY.

#### **DETAILED DESCRIPTION**

irregular and coalescing to cover extensive areas of substrate, to 20 cm diam., saxicolous, sometimes spreading over soil and adjacent lichens and mosses. **Lobes** numerous, marginally radiating, rather regular, small to medium, 2-4 mm wide, often obscured centrally by numerous, short, imbricate, congested lobules, **margins** contorted, entire, often notched, often, extensively blackened, pigment spreading to centre of lobes, hollow, markedly inflated, lower side of internal cavity black. **Upper surface** pale grey-brown or fawn, apices and sometimes lateral lobes suffused brownish, ± maculate, with black or dark brown lines or patches, often denser centrally (×10 lens), smooth or puckered (especially centrally), shining and faintly white-maculate or reticulate towards lobe ends, sorediate. **Perforations** sparse to scattered, small, 0.2-0.5 mm diam., rounded or irregular, margins not elevated. **Soralia** pustular, arising as swellings on upper surface with eventual rupture and folding back of cortex to form coarse or finely abraded, efflorescent, proliferating, granular-sorediate clusters, coalescing centrally, **soredia** greyish-fawn, pale when abraded. **Lower surface** black, brown or red-brown marginally, extensively puckered. **Apothecia** rare, scattered or contiguous in groups, small, 2 mm diam., adnate, cupuliform, margins elevated, crenulate-striate, disc red-brown to brown, epruinose. **Epithecium** pale red-brown or brown, with numerous small granules. **Hymenium** c. 100-130 μm tall. Asci 2-spored. **Ascospores** ellipsoid, 39-44 × 21-23 μm.

Thallus firmly attached at margins, ± loosely attached centrally, forming radiating, regular rosettes, often becoming

**Chemistry:** Medulla K+ yellow-orange, C-, KC+ orange, Pd+ orange; containing stictic, constictic and menegazziaic acids and accessory compounds.

## **SIMILAR TAXA**

*Menegazzia castanea* is the sorediate counterpart of *M. aeneofusca*. The development of soredia resembles that of *M. nothofagi* (which also occurs in similar habitats), in the bursting of coarse swellings from the upper surface, producing coarse, granular soredia surrounded by torn edges of the upgrowth. *Menegazzia nothofagi* has narrower lobes (0.5–0.8 mm), with a plane or concave surface and is mostly green in colour.

#### **SUBSTRATE**

Saxicolous

#### **ETYMOLOGY**

castanea: Probably derived from the old name for the Sweet Chestnut, either in Latin or Ancient Greek.

# **ATTRIBUTION**

Fact sheet prepared by Marley Ford (4 December 2023). Distribution, Habitat, and Features sections copied from Galloway (1985) & Galloway (2007).

#### REFERENCES AND FURTHER READING

Galloway D.J. 1985: Flora of New Zealand: Lichens. Wellington: PD Hasselberg, Government Printer. 662 pp. Galloway D.J. 2007: Flora of New Zealand: Lichens, including lichen-forming and lichenicolous fungi. 2nd edition. Lincoln, Manaaki Whenua Press. 2261 pp.

#### **MORE INFORMATION**

https://www.nzpcn.org.nz/flora/species/menegazzia-castanea/