

# Hoheria lyallii

## COMMON NAME

mountain lacebark

## SYNONYMS

*Plagianthus lyallii* (Hook.f.) Hook.f., *Gaya lyallii* Baker, *G. lyallii* var. *ribifolia* Kirk, *G. ribifolia* Cockayne

## FAMILY

Malvaceae

## AUTHORITY

*Hoheria lyallii* Hook.f.

## FLORA CATEGORY

Vascular – Native

## ENDEMIC TAXON

Yes

## ENDEMIC GENUS

Yes

## ENDEMIC FAMILY

No

## STRUCTURAL CLASS

Trees & Shrubs - Dicotyledons

## NVS CODE

HOHLYA

## CHROMOSOME NUMBER

2n = 42

## CURRENT CONSERVATION STATUS

2017 | Not Threatened

## PREVIOUS CONSERVATION STATUSES

2012 | Not Threatened

2009 | Not Threatened

2004 | Not Threatened

## BRIEF DESCRIPTION

Small spreading soft-wooded deciduous tree inhabiting dryer mountain areas of the South Island. Leaves thin, covered in small hairs, widest at base and narrowing to point, margin with many uneven blunt teeth and some deeper divisions, on long stalks. Flowers white, cupped, developing into a dry narrowly-winged fruit.

## DISTRIBUTION

New Zealand: South Island where it is mostly known from eastern Canterbury and Marlborough with a disjunct population in Nelson (Kahurangi National Park)

## HABITAT

Found in montane and subalpine areas in the upper forest margins. Occasionally found on river and stream terraces where it may be found in groves.



Upper Otira, Arthurs pass. January.

Photographer: John Smith-Dodsworth, Licence: CC BY-NC.



Emergent through briar, matagouri, Clarence Reserves. Photographer: Simon Moore, Licence: CC BY-SA.

## DETAILED DESCRIPTION

Tree up to 8 m tall, deciduous; hairs stellate; leaves heteroblastic. Juvenile leaves: lamina 13–40 × 15–40 mm, broad-elliptic to suborbicular, both surfaces sparsely to moderately hairy; apex subacute; base cordate to weakly truncate; margin deeply lobed to strongly crenate; petiole 15–52 mm long, sparsely to moderately hairy. Adult leaves: lamina 33–156 × 22–89 mm, elliptic to deltoid, adaxial and abaxial surfaces moderately to densely hairy, occasionally sparsely hairy; apex acute to subacute; margins crenate or double-crenate, often deeply lobed; base cordate to occasionally weakly truncate; petiole 10–43 mm long, moderately to densely hairy. Flowers axillary, solitary or in cymose fascicles of 2–3. Pedicels 12–25 mm long, sparsely to moderately hairy. Calyx 3.6–6.2 mm high, 7.0–9.5 mm wide, campanulate, densely hairy; lobes 5–6, 3.5–5.8 × 3.5–5.1 mm, triangular to narrowly triangular, apex acute. Petals 5(–6), 15.7–20.0 × 11.6–15.0 mm, white, oblong-orbicular to broadly oblong, adaxial surface and margin toward proximal part with scattered simple hairs, abaxial surface sparsely to moderately hairy; claw 1.5–2.5 mm long. Stamens 35–50; filaments 8.4–10.8 mm long, white, in pairs and adnate for one-quarter to three-quarters of their length, column with stellate and simple patent hairs; anthers 0.6–0.8 mm long. Carpels 8–14; ovary ovoid, 0.8–2.0 mm long, 0.8–2.0 mm diameter, densely hairy; style 8.4–10.0 mm long, pink, sparsely hairy, fused in lower half; stigma 0.3–0.4 mm diameter, capitate to slightly decurrent with style. Mericarp body 4.7–6.2 × 3.5–5.3 mm, broadly elliptic, laterally compressed; wing 1.2–2.2 mm wide, extending from upper two-thirds of dorsal surface, weakly ribbed, moderately hairy, margin irregularly toothed. Seeds 2.2–3.4 × 2.2–2.8 mm, orange brown, glabrous, semicircular to triangular, broader toward base, biconvex or with a rounded dorsal surface, sometimes with a narrow wing up to 0.4 mm wide, usually separating from mericarp at maturity. Description from Heenan et al. (2005).

## SIMILAR TAXA

Distinguishing Characters: *Hoheria lyallii* differs from *H. glabrata* by the shorter leaves which have truncate bases, moderately to densely hairy surfaces, and an acute apex. *Hoheria lyallii* and *H. glabrata* are a species pair, with *H. lyallii* confined to the drier part of the South Island, and *H. glabrata* to the wetter areas. *Hoheria glabrata* is the only species of the pair known to extend to the North Island.

## FLOWERING

November - March

## FLOWER COLOURS

Violet/Purple, White

## FRUITING

April - July

## LIFE CYCLE

Winged mericarps are dispersed by wind (Thorsen et al., 2009).

## PROPAGATION TECHNIQUE

Best from fresh seed. An extremely attractive species, unusual in the New Zealand flora for its deciduous habit. Prefers a damp soil in a sunny site, and does best in cooler climates. Dislikes humidity and will not flower in warmer climates unless it is subjected to cold treatment

## ETYMOLOGY

**hoheria**: Latin version of the Maori name houhere which refers to *H. populnea* and *H. glabrata*.

**lyallii**: Named after David Lyall (1817-1895), 19th century Scottish naturalist and surgeon with the Royal Navy, who explored Antarctica, New Zealand, the Arctic and North America and was a lifelong friend of Sir Joseph Hooker.

## WHERE TO BUY

Occasionally sold by specialist garden centres.

## ATTRIBUTION

Fact Sheet Prepared for NZPCN by: P.J. de Lange 3 April 2011

## REFERENCES AND FURTHER READING

- Heenan, P.B.; Dawson, M.I.; Redmond, D.N.; Wagstaff, S.J. 2005: Relationships of the New Zealand mountain ribbonwoods (*Hoheria glabrata* and *H. lyallii*: Malvaceae), based on molecular and morphological data. *New Zealand Journal of Botany* 43: 527–549.
- Moorfield, J. C. (2005). *Te aka : Maori-English, English-Maori dictionary and index*. Pearson Longman: Auckland, N.Z.
- 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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## MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/hoheria-lyallii/>