

# Podocarpus laetus

## COMMON NAME

mountain tōtara, Hall's tōtara, thin-barked tōtara, tōtara-kiri-kōtuketuku

## SYNONYMS

*Podocarpus hallii* Kirk; *Podocarpus cunninghamii* Colenso

## FAMILY

Podocarpaceae

## AUTHORITY

*Podocarpus laetus* Hooibr. ex Endl.

## FLORA CATEGORY

Vascular – Native

## ENDEMIC TAXON

Yes

## ENDEMIC GENUS

No

## ENDEMIC FAMILY

No

## STRUCTURAL CLASS

Trees & Shrubs - Gymnosperms

## NVS CODE

PODCUN

## CHROMOSOME NUMBER

$2n = 34$

## CURRENT CONSERVATION STATUS

2012 | Not Threatened

## PREVIOUS CONSERVATION STATUSES

2009 | Not Threatened

2004 | Not Threatened

## DISTRIBUTION

Endemic. North, South and Stewart Islands.

## HABITAT

Lowland, montane to lower subalpine forest (but notably more common in montane forest). Often found on impoverished soils, immature (skeletal) soils, or sites that are naturally stressed by drought or extreme temperature fluctuations.



Photo of Halls totara bark. Photographer: DoC



Halls totara, male cones. Photographer: DoC

## FEATURES

Robust dioecious conifer up to 20 m tall. Trunk stout, 1-1.5 m diam., clad in papery, thin, freely flaking reddish-grey bark. Trunk without branches at base, branches slender, erect, spreading or somewhat drooping. Leaf bud significantly broader than the diam., of the branchlet, surrounded by caducous, papery, ovate bracts. Leaves yellow-green, green, or brownish-green, erect, leathery; juvenile 25-50 x 4-5 mm, adults 20-30 x 3-4 mm., narrow-linear to linear-lanceolate, acute to acuminate, apex very pungent, mid-vein distinct. Male cones (strobili) axillary, 10-25 mm, solitary or up to 5 on a common peduncle. Female branchlets axillary, ovules solitary or paired. Receptacle of 2-4 scales, irregularly elliptic-oblong to obovate-oblong, maturing as a red, swollen, succulent, sweet tasting "fruit" this surmounted by a 1(-2) elliptic, elliptic-oblong or ovate-oblong, (5-)6.5-8.5 mm long, grey nut brown or dark brown (green when fresh) seed.

## SIMILAR TAXA

Distinguished from *Podocarpus totara* var. *totara* by the leaf bud which is wider than the diameter of the branchlet (resembles a meat ball on a stick), and by the broadly ovate bud bracts. The bark is generally papery - hence "thin barked totara", the leaves (especially juveniles and subadults) are longer and broader with a very sharp, pungent leaf tip. Hybridises with *P. totara* var. *totara* and hybrids can only reliably be distinguished by bud scale and bud diameter characters. See also Gardner (1990) in references below.

## FLOWERING

(August-) October (-December)

## FLOWER COLOURS

No flowers

## FRUITING

Fruits take a year or so to ripen, and may be found throughout the year, usually peaking at about the same time that cones are produced. They are most frequently seen between April and May

## PROPAGATION TECHNIQUE

Easily grown from fresh seed and hard-wood cuttings.

## ETYMOLOGY

**podocarpus:** Foot or stalk fruit

**laetus:** From the Latin laetus 'bright'

## WHERE TO BUY

Uncommon in cultivation. Not often seen in gardens though it is commercially available.

## TAXONOMIC NOTES

Molloy (2015) has outlined the complex taxonomic history of Hall's totara noting that there are three valid names that could be used for this species, *P. hallii* Kirk, *P. cunninghamii* Colenso and *P. laetus* Hooibr. ex Endl. Molloy (2015) concludes that *Podocarpus laetus* is the earliest legitimate and validly published name, and in the absence of any final ruling on the matter that name is now used here. Previously it had been recommended that *P. cunninghamii* should be used (see Molloy 1985; de Lange & Rolfe 2010).

## ATTRIBUTION

Fact sheet prepared for NZPCN by P.J. de Lange (8 January 2005). Description adapted from Kirk 1889 and Allan 1961).

## REFERENCES AND FURTHER READING

Allan, H.H. 1961: Flora of New Zealand. Wellington, Government Printer.

Connor, H.E.; Edgar, E. 1987: Name changes and Nomina Nova IV. *New Zealand Journal of Botany* 25:

de Lange, P.J.; Rolfe, J.R. 2010: New Zealand Indigenous Vascular Plant Checklist. Wellington, New Zealand Plant Conservation Network. 164pp.

Gardner, R. 1990. Totara and Halls totara. *Auckland Botanical Society Journal*, 45: 27-28.

Kirk, T. 1889: The Forest Flora of New Zealand. Wellington, Government Printer.

Molloy, B.P.J. 1985: The continuing saga of native conifer nomenclature. *DSIR Botany Division Newsletter* 102: 26-27.

Molloy, B.P.J. 2015: The correct name for the New Zealand endemic conifer Hall's totara (Araucariales: Podocarpaceae). *Phytotaxa* 220: 101-116.

### **NZPCN FACT SHEET CITATION**

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### **MORE INFORMATION**

<https://www.nzpcn.org.nz/flora/species/podocarpus-laetus/>