

Quintinia serrata

COMMON NAME

tāwheowheo, quintinia

SYNONYMS

Quintinia acutifolia Kirk, *Quintinia elliptica* Hook.f.

FAMILY

Paracryphiaceae

AUTHORITY

Quintinia serrata A.Cunn.

FLORA CATEGORY

Vascular – Native

ENDEMIC TAXON

Yes

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

STRUCTURAL CLASS

Trees & Shrubs - Dicotyledons

NVS CODE

QUISER

CHROMOSOME NUMBER

2n = 44

CURRENT CONSERVATION STATUS

2012 | Not Threatened

PREVIOUS CONSERVATION STATUSES

2009 | Not Threatened

2004 | Not Threatened

BRIEF DESCRIPTION

Tree with spotted twigs bearing wavy purple-spotted leaves and spikes of small whiteish flowers which develop into a dry capsule. Twigs with circular scales (lens needed). Leaves 20-160mm long by 10-50mm wide, margin smooth or with scattered teeth, edge wavy.

DISTRIBUTION

Endemic. New Zealand: North and South Islands (from about Kaitaia south to Wellington; in the South Island mostly westerly in the South Island to about Martins Bay)

HABITAT

Coastal to montane usually in forest, in the northern part of its range often confined to cooler valley heads and ridge lines or prominent on the summits of major ranges and peaks (in so called "cloud forest"). In the southern part of its range extending into coastal forest where it may form a major part of the forest understorey and/or canopy in disturbed sites



Tokatea, Coromandel. March. Photographer: John Smith-Dodsworth



Tokatea, Coromandel. March. Photographer: John Smith-Dodsworth

FEATURES

Small tree up to 12 m tall; trunk up to 500 mm d.b.h. Bark greyish-white to grey-brown, often mottled and covered with small lichens, mosses and liverworts. Branches ascending. Young branchlets, leaves, peduncles and pedicels ± viscid and invested with lepidote ± scurfy scales. Leaves alternate, exstipulate, yellow-green to dark green usually blotched dark maroon sometimes not, borne on petioles up to 20 mm long; lamina 20-160 × 10-50 mm, narrowly lanceolate, oblanceolate, narrowly oblong, elliptic, broadly elliptic-obovate to obovate-cuneate, apex obtuse, subacute to acute, margins weakly to strongly undulose or flat, obscurely to distinctly serrate, or entire (if serrate then serration apices distinctly glandular). Inflorescences racemose, axillary or terminal. Racemes 35-80 mm long, pedicels c.3-4 mm long; Flowers gynodioecious, 3-7 mm diameter, calyx tube adnate to ovary, lobes persistent; petals 1.5-3.5 mm long, white to whitish-pink, obovate-oblong, narrow ovate to ovate-oblong, imbricate; female flowers with 5 rudimentary stamen (often reduced to staminodes, sometimes completely absent); ovary 3-5-celled, style persistent; stigmas capitate, 3-5-lobed; hermaphrodite flowers similar but with 5 functional stamens and functional gynoecium. Capsules 3-5-valved, 4-6 mm long, including style, obovoid, ellipsoid or oblong. Seeds 1.3-2.0 mm long, narrowly ovate, elliptic, ovate-elliptic to oblong, compressed, surface glabrous, finely reticulate with elongated cells, orange-brown to brown.

SIMILAR TAXA

None. The distinctive maroon mottled yellowish green leaves, scurfy, lepidote scales covering the young branchlets, leaves, peduncles and pedicels, and white to pinkish-white flowers borne in racemes readily distinguish *Quintinia* from any other New Zealand indigenous tree.

FLOWERING

September - March

FLOWER COLOURS

White

FRUITING

November - June

PROPAGATION TECHNIQUE

Difficult. Best grown from fresh seed although results vary. Does well in a shaded or semi-shaded situation planted in a deep, moist, fertile soil. Plants are prone to sudden collapse, especially during periods of drought. However, as with seed germination results vary and some people find cultivation of *Quintinia* easy, others not.

ETYMOLOGY

quintinia: Named after the 17th century French horticulturist Jean (Johannis) de la Quintinie (Quintinye)

serrata: Saw-toothed

WHERE TO BUY

Occasionally offered by specialist native plant nurseries.

TAXONOMIC NOTES

Quintinia is extremely variable and some extremes have been known by the species names *Q. acutifolia* and *Q. elliptica*. In this Fact Sheet the view expressed by Eagle (1982, 2006) and Dawson & Lucas (2011) is followed, in that one species, *Q. serrata* is accepted. However, a proper study of the variation in *Quintinia* is still needed to confirm that there is indeed just the one species. The main distinguishing character between the three species accepted by Allan (1961) leaf shape, varies sometimes within populations but definitely from north to south and east to west, suggesting the three species are part of a natural cline. Interestingly Webb & Simpson (2001) maintain two species (*Q. acutifolia* and *Q. serrata*) on the basis of minor differences in seed size; they do not accept *Q. elliptica* which they consider indistinguishable from *Q. acutifolia*.

ATTRIBUTION

Fact sheet prepared for NZPCN by P.J. de Lange January 2012. Description adapted from Allan (1961), Dawson & Lucas (2011) and Webb & Simpson (2001).

REFERENCES AND FURTHER READING

- Allan, H.H. 1961: Flora of New Zealand. Vol. I, Government Printer, Wellington.
- Dawson, J.; Lucas, R. 2011: New Zealand's Native Trees. Craig Potton Publishing, Nelson.
- Eagle, A.L. 1982: Eagle's trees and shrubs of New Zealand, second series. Collins, Auckland.
- Eagle, A.L. 2006: Eagle's complete trees and shrubs of New Zealand. Te Papa Press, Wellington.
- Webb, C.J.; Simpson, M.J.A. 2001: Seeds of New Zealand Gymnosperms and Dicotyledons. Manuka Press, Christchurch.

NZPCN FACT SHEET CITATION

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MORE INFORMATION

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