

# Nestegis apetala

## SYNONYMS

*Olea apetala* Vahl; *Olea endlicheri* F.Muell.; *Gymnelaea apetala* (Vahl) L.A.S.Johnson; *Nestegis elliptica* Raf. nom. illeg.; *Notelaea apetala* (Vahl) Hong-Wa & Besnard

## FAMILY

Oleaceae

## AUTHORITY

*Nestegis apetala* (Vahl) L.A.S.Johnson

## FLORA CATEGORY

Vascular – Native

## ENDEMIC TAXON

No

## ENDEMIC GENUS

No

## ENDEMIC FAMILY

No

## STRUCTURAL CLASS

Trees & Shrubs - Dicotyledons

## NVS CODE

NESAPE

## CHROMOSOME NUMBER

2n = 46

## CURRENT CONSERVATION STATUS

2017 | At Risk – Relict | Qualifiers: PD, SO

## PREVIOUS CONSERVATION STATUSES

2012 | At Risk – Naturally Uncommon | Qualifiers: SO

2009 | Not Threatened

2004 | Not Threatened

## BRIEF DESCRIPTION

Small hard tree bearing pairs of leathery dark green glossy wavy leaves that are pale green underneath inhabiting coastal forest in the northern North Island. Leaves 5–11 cm long. Fruit purpleish, oval, in loose clusters.

## DISTRIBUTION

Indigenous. New Zealand: North Island (northern areas including offshore islands from the Manawatāwhi / Three Kings Islands south to Hauturu Island near Whangamata; especially common on the Poor Knights Islands and Fanal Island (Motukino)—on the latter of which it forms a distinct, pure forest type). Also Norfolk Island.



*Nestegis apetala* - close up of foliage showing upper leaf surface. Note wavy leaf margin. Photographer: Peter J. de Lange, Licence: CC BY-NC.



*Nestegis apetala* - close up of foliage showing underside of leaves. Photographer: Peter J. de Lange, Licence: CC BY-NC.

## HABITAT

Strictly coastal. Inhabiting coastal forest often along the exposed margins, also on rocky slopes, cliff faces, talus slopes and exposed ridgelines, as well as forming a minor subcanopy in closed forest. *Nestegis apetala* is often an important component of northern offshore island forests where it co-habits with pōhutukawa (*Metrosideros excelsa*), tawāpou (*Planchonella costata*), coastal māhoe (*Melicactus novaezelandiae*), *Streblus* spp. (especially *S. banksii*), houpara (*Pseudopanax lessonii*) and whau (*Entelea arborescens*).

## DETAILED DESCRIPTION

Stout spreading dioecious (?gynodioecious) tree up to 10 m. tall; trunk up to 1 m diameter, sometimes several arising from base, these often twisted; bark firm (not flaking), often deeply furrowed, grey to grey-brown, tessellated. **Branches** spreading, often tortuous. **Branchlets** glabrous. **Leaves** glabrous, coriaceous, dark glossy green above, paler and dull below, margins undulate, somewhat waxy, midrib prominent on both surfaces, yellow; petioles stout, rigid 8–15 mm long; lamina of juveniles 50–120 × 40–90 mm, broad-oblong to ovate, apex acute to acuminate, base cuneately narrowed; of adults 50–80 × 40–70 mm, elliptic-oblong to ovate-elliptic, apex acute to acuminate, base cuneately narrowed. **Inflorescence** a slender 10–18-flowered raceme 30–45 mm long, rachis and pedicels, stout glabrous. **Flowers** 2.5–2.9 mm diameter, greenish to greenish-yellow; males, females (and very rarely apparently perfect flowers) on very slender pedicels; calyx unequally deeply cleft, ovate, subacuminate; males with 2 large exerted anthers, ovary rudimentary or functional; female flower with 2 rudimentary anthers, ovary with large 2-lobed stigma. **Drupe** 10–18 mm long, oblong-ovoid, flesh dark pink, red or purple-black to maroon (flesh somewhat oily); endocarp 9.0–15 × 5.5–8.5 mm, dull, pale orange-yellow, elliptic to narrowly elliptic (and slightly compressed). **Seed** 1–(2) per endocarp, elliptic, purple-brown.

## SIMILAR TAXA

Privet (*Ligustrum lucidum*) is commonly confused with *Nestegis apetala* from which it differs by its much larger panicle inflorescences, white flowers and much smaller (3–6 mm long) fruits. *Nestegis apetala* could be confused with white maire (*Nestegis lanceolata*), which very occasionally grows with *N. apetala* in northern coastal forest. White maire differs by its much narrower (up to 30 mm wide) narrow- to ovate-lanceolate to narrow-elliptic leaves whose midrib is adaxially deeply impressed. Canary Island olive (*Picconia excelsa*, Oleaceae) when vegetative or fruiting has a strong similarity to *Nestegis apetala* such that it is occasionally (and one assumes “accidentally”) sold as this species. This tree is uncommon in New Zealand being most often seen in parks, street plantings, school grounds and plant collections in northern New Zealand. When flowering it is easily recognised as it has flowers with large prominent white or pink-white petals.

## FLOWERING

October–January

## FLOWER COLOURS

Green, Yellow

## FRUITING

January–April

## PROPAGATION TECHNIQUE

Easily grown from fresh seed. An attractive though frost-sensitive small tree that makes an excellent specimen tree for a large garden or street avenue. Once established, *Nestegis apetala* is extremely tolerant of drought, strong winds and salt burn. It does well in large tubs and in raised gardens. Plants do best when planted in semi-shade in a position where they can grow into the light but are remarkably tolerant of being planted into full sun. Aside from its cold sensitivity this is an ideal tree for coastal situations and it deserves to be grown more widely than it is.

## ETYMOLOGY

**apetala**: From the Latin prefix a- ‘without’ and petalum ‘petal’,

## ATTRIBUTION

Fact sheet prepared for NZPCN by P.J. de Lange 9 February 2011. Description adapted from Allan (1961) and Webb & Simpson (2001).

## REFERENCES AND FURTHER READING

Allan HH. 1961. Flora of New Zealand, Volume I. Indigenous Tracheophyta: Psilopsida, Lycopsidea, Filicopsida, Gymnospermae, Dicotyledones. Government Printer, Wellington, NZ. 1085 p.

Webb CJ, Simpson MJA. 2001. Seeds of New Zealand Gymnosperms and Dicotyledons. Manuka Press, Christchurch. 428 p.

## NZPCN FACT SHEET CITATION

Please cite as: de Lange, P.J. (Year at time of access): *Nestegis apetala* Fact Sheet (content continuously updated). New Zealand Plant Conservation Network. <https://www.nzpcn.org.nz/flora/species/nestegis-apetala/> (Date website was queried)

## MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/nestegis-apetala/>