

# *Eucalyptus alligatrix* subsp. *limaensis*

## Classification

Eucalyptus | Symphyomyrtus | Maidenaria | Euryotae | Argyrophyllae

## Nomenclature

***Eucalyptus alligatrix* subsp. *limaensis*** Brooker, Slee & J.D.Briggs *Austral. Syst. Bot.* 8: 510 (1995).



T: Victoria: 0.7 km W of Midland Highway at Swanpool on road to Lima, 13 Apr. 1990, *J.D.Briggs 2536*; holo: CANB; iso: AD, BRI, K, MEL, NSW.

## Description

**Tree** to 30 m tall. Forming a lignotuber.

**Bark** rough to small branches or rarely the branches <8cm diameter smooth, rough bark thick, fibrous, coarsely furrowed down trunk, dark grey; branchlets rarely glaucous.

**Juvenile growth (coppice or field seedlings to 50 cm):** stem rounded or square in cross-section, glaucous or non-glaucous, warty or smooth; juvenile leaves always opposite, sessile, orbicular or broadly ovate, 2–4.5 cm long, 2.5–5.2 cm wide, margin entire or crenulate, blue-green, grey-green or glaucous.

**Crown** composed entirely of narrowly lanceolate adult leaves.

**Adult leaves** alternate, petiole 0.8–2.5 cm long; blade narrowly lanceolate to falcate, 4.8–19.5 cm long, 0.7–1.8 cm wide, base tapering to petiole, margin entire, concolorous, glossy or dull, light green or grey-green, side-veins greater than 45° to midrib, moderately to densely reticulate, intramarginal vein parallel to and just within margin, oil glands numerous, mostly island.

**Inflorescence** axillary unbranched, peduncles 0.2–0.8 cm long, buds 3 per umbel, sessile or on pedicels only 0.1 cm long. **Mature buds** ovoid to diamond-shaped, 0.4–0.5 cm long, 0.2–0.3 cm wide, green or glaucous, sometimes slightly ridged, scar present, operculum conical, stamens inflexed, anthers cuboid or cuneate, versatile, dorsifixed, dehiscing by longitudinal slits (non-confluent), style long, locules 3 or 4, the placentae each with 4 vertical ovule rows. Flowers white.

**Fruit** sessile or on pedicels only 0.1 cm long, obconical or campanulate, 0.3–0.4 cm long, 0.4–0.5(0.7) cm wide, disc raised, valves 3 or 4, strongly exerted.

**Seeds** dark grey, brown or blackish, 1–1.6 mm long, ovoid or flattened-ovoid, often pointed at one end, usually lacunose, dorsal surface smooth or shallowly pitted, hilum ventral.

**Cultivated seedlings (measured at ca node 10):** cotyledons bilobed to oblong; stems rounded or square in cross-section, glaucous; leaves sessile and opposite for many nodes, orbicular to cordate, 2–3 cm long, 2–3.5 cm wide, base amplexicaul to rounded, apex emarginate, rounded or pointed, glaucous to grey-green.

## Flowering Time

Flowering time unknown.

## Notes

*Eucalyptus alligatrix* is a small to medium-sized tree species of undulating to montane south-eastern Australia inland from the Great Dividing Range. It has extensive, thick rough fibrous bark, glaucous juvenile leaves and a crown of adult and intermediate leaves.

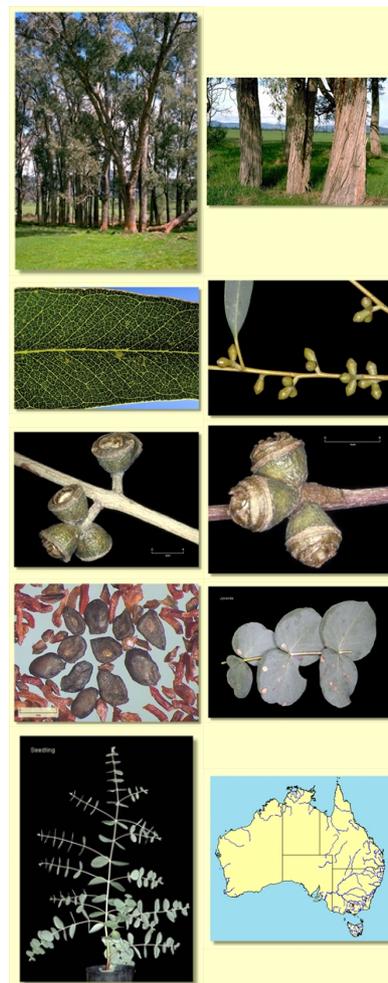
There are three subspecies differing in geography and proportion of adult and sub-adult leaves in the crown:

### ***E. alligatrix* subsp. *alligatrix***

From the Eildon – Jamieson – Big River area of Victoria with buds in threes and crown a mixture of alternate narrowly lanceolate adult and opposite, broadly lanceolate, intermediate leaves.

### ***E. alligatrix* subsp. *limaensis***

Occurs further north than subsp. *alligatrix*, only near Swanpool in Victoria. A taller tree with a completely adult crown of consistently alternate narrowly lanceolate leaves, buds in 3s and the smallest fruit of the three subspecies.



### ***E. alligatrix* subsp. *miscella***

Has a very restricted distribution near Rylstone, New South Wales, and is a smaller spreading woodland tree with a completely adult crown but with broader lanceolate leaves compared with subsp. *limaensis*. Bud clusters are a mixture of 3s and 7s on the same tree.

*Eucalyptus alligatrix* belongs in *Eucalyptus* subgenus *Symphyomyrtus* section *Maidenaria*, a large group of species more or less restricted to south-eastern Australia, characterised by bilobed cotyledons, simple axillary inflorescences, buds with two opercula, stamens with versatile anthers and flattened seeds with a ventral hilum. Within this section, *E. alligatrix* belongs in subsection *Euryote* series *Argyrophyllae* having longitudinally furrowed fibrous rough bark throughout, orbicular or ovate juvenile leaves opposite and sessile for many nodes, small diamond-shaped buds in 3s or mixed 3s and sevens and fruit with prominent disc and valves. *E. alligatrix* has a greener, more adult-leaved crown than *E. cinerea* and *E. conspicua*, whilst *E. cephalocarpa* and *E. nova-anglica* have buds in sevens. These 5 species form series *Argyrophyllae*.

*Eucalyptus alligatrix* subsp. *limaensis* and *E. alligatrix* subsp. *miscella* are both listed as "Vulnerable" under the Australian Government *Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)*. Further information may be found at this web address: <http://www.environment.gov.au/cgi-bin/sprat/public/sprat.pl>

### Origin of Name

*Eucalyptus alligatrix*: Latin *alligatrix*, she who binds together, referring to the relationship of the species to *E. cinerea* and *E. cephalocarpa*.

subsp. *limaensis*: after the farming district, Lima, in north-east Victoria, where the subspecies occurs.

subsp. *miscella*: Latin *miscella*, mixed, referring to the 3- and 7-flowered inflorescences on the same tree.

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