

Eucalyptus crucis subsp. *praecipua*

Classification

Eucalyptus | Symphyomyrtus | Bisectae | Destitutae | Curviptera | Orbifoliae

Nomenclature

Eucalyptus crucis subsp. ***praecipua*** Brooker & Hopper, *Nuytsia* 9(1): 40–1 (1993)

T: Wardagga Hill, Ninghan Station, 22km SW of Paynes Find, 27 Aug. 1991, *S.D.Hopper 8132* & *A.P.Brown*; holo: PERTH; iso: AD, CANB, NSW

Description

Mallee to 15 m tall. Forming a lignotuber.

Bark thick, rough, densely and closely fibrous on most of trunk and larger branches, minnirichi only on smaller branches, green-fawn over rich red-brown.

Branchlets glaucous; lacking oil glands in the pith.

Juvenile growth (coppice or field seedlings to 50 cm): stems rounded in cross-section, glaucous; juvenile leaves sessile, opposite, usually orbicular or wider than long, 1.7–5.5 cm long, 2.3–6.5 cm wide, amplexicaul, usually glaucous.

Crown entirely of **adult leaves**, petioles 0.4–1.5 cm long; blade narrowly lanceolate to narrowly elliptical, 6–10(15) cm long, (0.5)0.7–1.2(2.5) cm wide, base tapering to petiole, margin entire, apex pointed, concolorous, grey-green or slightly glaucous, side-veins greater than 45° to midrib, reticulation dense, intramarginal vein absent or close to margin, oil glands intersectional, large, scattered.

Inflorescence axillary unbranched, peduncles slender, 0.5–2.5 cm long, buds 7 per umbel, pedicels 0.6–1 cm long. **Mature buds** ovoid to slightly elongate-globular (1.1–1.3 cm long, 0.8–1.1 cm wide, glaucous to pinkish, scar present, operculum obtusely conical to rounded (0.6–0.8 cm long), stamens oblique (a few inner stamens may be terminally deflexed), anthers versatile, sub-basifixed, dehiscing by longitudinal slits, style long and straight, stigma rounded to blunt, locules 4 or 5(6), the placentae each with 4 vertical rows of ovules with a conspicuous longitudinal median gap. Flowers whitish to pale yellow.

Fruit pedicellate (pedicels 0.7–1.4 cm long), broadly obconical to hemispherical, 0.6–1 cm long, 1–1.5 cm wide, glaucous or non-glaucous, disc slightly raised or level, valves 4 or 5(6), exserted.

Seeds dark grey-brown, 1–2 mm long, ovoid to slightly flattened-ovoid, scarcely ridged, dorsal surface scarcely reticulate, hilum ventral.

Cultivated seedlings (measured at node 10): cotyledons Y-shaped (bisected); stems rounded in cross-section, glaucous, smooth or slightly warty; leaves sessile, opposite, orbicular or wider than long, 2.5–4.5 cm long, 2–5 cm wide, base amplexicaul, apex rounded and mucronate to pointed, glaucous or sometimes grey-green.

Flowering Time

Flowering time unknown.

Notes

Eucalyptus crucis is a species with sprawling mallee or small tree habit, endemic to Western Australia, of restricted and sporadic distribution east and north-east of Perth in the east-central wheatbelt and further north, always associated with large granite rocks (inselbergs). The bark is minnirichi throughout or in part, and crown leaves grey to glaucous, and both bark and shape of leaves vary with the subspecies. Buds are also glaucous to pinkish and ± elongate-globular with the stamens arranged obliquely inside the bud (viewed in longitudinal section).

It belongs in *Eucalyptus* subgenus *Symphyomyrtus* section *Bisectae* subsection *Destitutae* because buds have two opercula, cotyledons are Y-shaped and branchlets lack oil glands in the pith. Within this subsection *E. crucis* is in series *Curviptera*, one of about 30 closely related species and subspecies which are further characterised by having large buds in umbels of one, three or seven, staminal filaments erect or oblique (rarely inflexed) in bud, and large fruit usually with an ascending disc and exserted valves.

Within the series *Curviptera* this species is most closely related to *E. ewartiana*, *E. orbifolia*, *E. websteriana* and *E. educta*, and together they form a subgroup, subseries *Orbifoliae*. All have minnirichi bark, buds in umbels of three or seven (rarely 11). All have stamens arranged obliquely in bud except *E. educta*, which has erect stamens. All have seed that are angularly ovoid though scarcely ridged. *E.*



crucis differs from these close relatives by the combination of the following features—obtusely ovoid to globular buds with pale creamy yellow flowers, seedling and juvenile leaves sessile, opposite and orbicular for many nodes and branchlets glaucous.

There are three subspecies:

E. *crucis* subsp. *crucis*

The mature crown consists of round, glaucous juvenile leaves and the subspecies is restricted in distribution to the eastern part of the wheatbelt, between Merredin, Southern Cross and Westonia.

E. *crucis* subsp. *lanceolata*

The mature crown consists of alternate, petiolate, lanceolate, grey-green adult leaves and the basal bark may become, on larger plants, a thick accumulation of numerous 'minirichi strips'. It is sporadically distributed from Pikaring Hill near Corrigin north to Cullimbin and Mt Churchman, and east to Chiddarcooping Rock area.

E. *crucis* subsp. *praecipua*

The mature crown consists of alternate, petiolate, lanceolate adult leaves but with larger leaves, buds and fruit than subsp. *lanceolata*. The basal bark is rough, thick and with the outermost layer of coarse criss-crossed fibrous loose strips on the trunk and larger branches, becoming minirichi only on smaller branches. Currently known only from south-west of Paynes Find at Wardagga Hill.

Eucalyptus crucis subsp. *crucis* is listed as "Vulnerable" and *E. crucis* subsp. *praecipua* is listed as "Endangered" 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 crucis: Latin *crucis*, of the cross, referring to the town of Southern Cross near where the species occurs.

subsp. *praecipua*: Latin *praecipuus*, special, referring to the distinct morphology compared with the other subspecies.

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