

## *Eucalyptus celastroides* subsp. *celastroides*

### Snap and rattle

#### Classification

Eucalyptus | Symphyomyrtus | Bisectae | Destitutae | Heterostemones

#### Nomenclature

***Eucalyptus celastroides*** Turcz., *Bull. Cl. Phys.-Math. Acad. Sci. Saint-Petersburg* 10: 338 (1852) subsp. ***celastroides***.

*E. calycogona* var. *celastroides* (Turcz.) Maiden, *Crit. Revis. Eucalyptus* 1: 79 (1903). T: Swan R. Colony, W.A., 1849, *J.Drummond* 5:34; holo: KW; iso: BM, K, NSW, PERTH, W.

#### Description

**Tree or mallee** to 8 m tall. Forming a lignotuber.

**Bark** rough and flaky grey-brown for up to half of trunk then smooth, or smooth over whole stems, mottled whitish and pink-grey to salmon, sometimes powdery.

**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 always petiolate, opposite for 1 or 2 nodes then alternate, ovate to elliptic-oblong, 3–5 cm long, 1.2–2.5 cm wide, glaucous.

**Adult leaves** alternate, petioles 0.8–2 cm long; blade narrowly lanceolate, (5.3)6.5–10.5(11.2) cm long, (0.5)0.8–1.5(1.7) cm wide, base tapering to petiole, margin entire, apex pointed, concolorous, green to blue-green or slightly glaucous, side-veins very acute particularly at base, reticulation sparse to moderate, intramarginal vein remote from margin, oil glands island and intersectional, irregularly shaped.

**Inflorescence** axillary unbranched, peduncles 0.4–1.8 cm long, buds 7 or 9 per umbel, pedicels 0.2–0.4 cm long. **Mature buds** narrowly pyriform to obovoid, often square in cross-section lower on the hypanthium (0.6–1 cm long, 0.3–0.4 cm wide), scar present (outer operculum shed early), operculum rounded and apiculate to conical (0.2–0.3 cm long), stamens inflexed or the long outer filaments irregularly disposed, outer filaments barren (staminodes), inner stamens shorter, always fertile, anthers oblong-reniform to ± spherical, scarcely versatile, sub-basifixed, dehiscing by subterminal pores, style long and straight, tapering near the base, stigma rounded, locules 3 or 4, the placentae each with 4 vertical rows of ovules. Flowers white.

**Fruit** pedicellate (pedicels 0.2–0.5 cm long), urceolate (narrowing to a neck immediately below the rim) and sometimes four-angled, 0.5–0.8 cm long, 0.4–0.8 cm wide, disc descending vertically, valves 3 or 4, enclosed.

**Seeds** tan, 0.7–2 mm long, flattened-ovoid, dorsal surface more or less smooth, hilum ventral.

**Cultivated seedlings (measured at node 10):** cotyledons Y-shaped (bisected); stems rounded or square in cross-section, warty or smooth, usually glaucous; leaves always petiolate, opposite for 4 to 6 nodes then becoming alternate (sometimes reverting later to opposite for a few nodes), ovate, 2.5–5.5 cm long, 1.2–2.5 cm wide, dull, grey-green to glaucous.

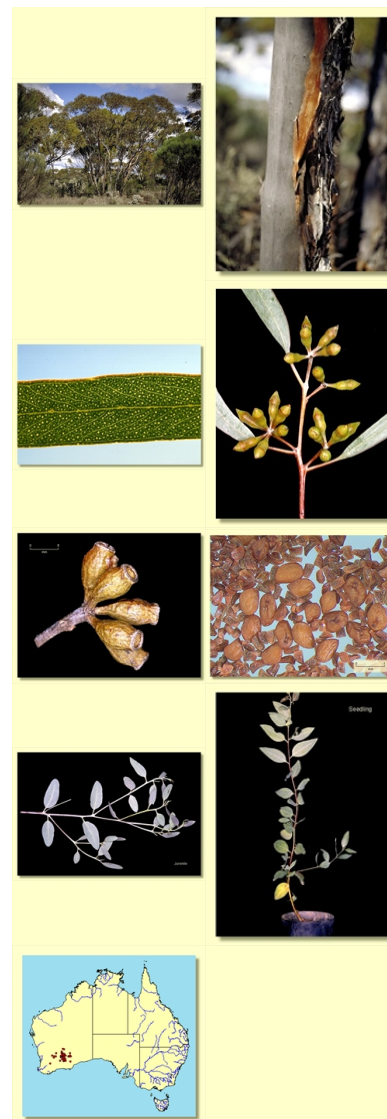
#### Flowering Time

Flowering has been recorded in August, September, October, November and December.

#### Notes

*Eucalyptus celastroides* is a small mallee species endemic to Western Australia, found in the northern, central and southern wheatbelts, and central goldfields east of Perth. Smooth-barked or partly rough-barked with slightly glaucous adult leaves weathering to green, or adult leaves always green.

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. celastroides* is one of seven closely related species that form series *Heterostemones*. This series is characterised by the barren outer stamens that are conspicuously twisted and spreading in flower and the much shorter fertile inner stamens that are held more erect. Species in series *Heterostemones* also have fruit with a descending disc and enclosed valves while the leaves have side-veins quite acute at the base of the lamina and usually sparse reticulation.



*E. celastroides* is distinguished from other species in series *Heterostemones* by having buds and fruit that are only four-angled basally, otherwise being rounded in cross-section. Of the other six species in the series *E. calycogona*, *E. prolixa* and *E. quadrans* all have buds and fruit that are square in cross-section whilst *E. gracilis*, *E. brevipes* and *E. yilgarnensis* all have buds and fruit rounded in cross-section. In addition *E. gracilis* and *E. quadrans* have a short rounded to flattened operculum (conical to rounded in *E. celastroides*), *E. yilgarnensis* has the long slender pedicels and the short rounded opercula, and *E. brevipes* has the cupular or cylindrical fruit (usually urceolate in *E. celastroides*).

The glossy green-leaved mallees of series *Porantherae* may be confused on fruit characters with species in series *Heterostemones*, but the fruits of species in series *Porantherae* are thick-rimmed while those in series *Heterostemones* are thin-rimmed.

There are two subspecies:

**E. celastroides** subsp. **celastroides**

Occurs through the goldfields from Kellerberrin, Bullfinch and Comet Vale south-east to Marvel Loch and Norseman and east almost to Balladonia and Coonana. It is often an understorey plant in taller mallee scrub, and is distinguished from subsp. *virella* by rough basal bark, the greyish crown, glaucous juvenile leaves and glaucous buds.

**E. celastroides** subsp. **virella**

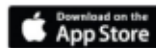
Occurs in the central and northern wheatbelts and the northern part of the southern wheatbelt from Gnowangerup north to Three Springs and east to Beacon extending into the goldfields to the area between Burra Rock, Coolgardie and north of Kalgoorlie. It differs from subsp. *celastroides* by the smooth bark, the glossy green adult leaves, and it has no parts glaucous.

### Origin of Name

*Eucalyptus celastroides*: Greek *kelastros*, a genus of tree and *-oides*, resembling, probably referring to the leaves.

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