

## *Bosistoa pentacocca* (F.Muell.) Baill.

Family:  
Rutaceae

Baillon, H.E. (1873), *Histoire des Plantes* 4: 470, adnot.

### Stem

Tree to 18 m, sometimes multi-stemmed. Bark grey to dark grey, blotchy, finely longitudinally fissured to scaly. Stems hairy and becoming hairless.

### Leaves

New growth pinkish red. Leaves opposite, compound, pinnate or trifoliolate. Stipules absent. Petiole 1-8 cm long. Leaflets opposite, 3-13 leaflets per leaf, imparipinnate (terminal leaflet present). Lateral petiolule 1-15 mm long with swelling at base, terminal petiolule 5-40 mm long with swelling at junction with lamina. Leaflet blade narrow oblong, oblong-lanceolate, oblong-elliptic to oblong-obovate, elliptic, 4.5-27 cm long, 1-9 cm wide, base cuneate to obtuse, margin entire, toothed or crenate, apex acute to acuminate. Between 13-30 pairs of lateral veins. Oil dots very distinct. Surfaces hairless or rarely finely hairy.

### Flowers

Inflorescences terminal or axillary, paniculate. Flowers bisexual, actinomorphic, 5-merous. Sepals connate at base or up to nearly their full length, 0.7-1 mm long, triangular. Petals free, narrowly elliptic to oblanceolate, 3.5-4.5 mm long, spreading, white. Stamens 10, alternately unequal in length, filaments opposite petals shorter than filaments alternating with petals. Ovary of 5 (-rarely 4) more or less free carpels, the free carpels obscured by the woolly indumentum of the ovary, carpels share a common base and style, ovary superior, style laterally attached to each carpel.

### Fruit

Fruit dry consisting of 1 or 2 basally fused follicles, follicles 1.5-2.3 cm long, 1.5-3 cm wide, compressed, wrinkled, densely hairy, brown. Fruit outer layer (exocarp) woody, separate from inner layer (endocarp) which forms two parts, a membranous to fleshy tissue more or less persistent on seed which tears away from the cartilaginous layer expelled from the fruit. Seed 1 per follicle, 1-2 cm long, subellipsoid or subreniform.

### Seedlings

Features not available.

### Distribution and Ecology

Occurs in CEQ, southwards to north eastern NSW. Found in subtropical and dry rainforest communities.

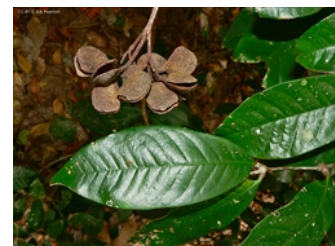
### Natural History & Notes



Inflorescence and leaves [not vouchered]. CC-BY: S. & A. Pearson.



Flowers [not vouchered]. CC-BY: S. & A. Pearson.



Fruit and leaves [not vouchered]. CC-BY: S. & A. Pearson.



Follicles [not vouchered]. CC-BY: S. & A. Pearson.



Dehiscent fruit [not vouchered]. CC-BY: S. & A. Pearson.

Two subspecies of *Bosistoa pentacocca* are recognised in Queensland (Forster 2013), *Bosistoa pentacocca* subsp. *pentacocca* and *Bosistoa pentacocca* subsp. *connaricarpa*. The former can be diagnosed by 3-5(-6) leaflet pairs; and 16-30 secondary veins per side of midrib; the latter by 1 or 2 (rarely 3) leaflet pairs; and 13-16 (-18) secondary veins per side of midrib. *Bosistoa pentacocca* subsp. *pentacocca* is endemic to SE Qld and NE NSW and *Bosistoa pentacocca* subsp. *connaricarpa* is distributed in a number of populations from NE of Gympie to Bowen. This profile information and associated coding has been adapted from Cooper & Cooper (2004), Forster (2013), Harden et al. (2014), and Hartley (2013).

### Synonyms

**Euodia pentacocca** F.Muell. *Fragmenta Phytographiae Australiae* 3(19): 41, (1862). Type: "Ad flumina Richmond et Clarence River. Dr. Beckler." **Bosistoa sapindiformis** F.Muell. ex Benth. nom. illeg. *Flora Australiensis* 1: 359, (1863). **Acradenia bosistoi** F.Muell. nom. illeg. *Monthly Notices of Papers and Proceedings of the Royal Society of Tasmania*: 8, (1868). **Bosistoa pentacocca** (F.Muell.) Engl. nom. illeg. *Die Natürlichen Pflanzenfamilien* 4 (131-2): 114, fig. 64 J, (1896). **Bosistoa connaricarpa** Domin. *Eighth Contribution to the Flora of Australia. Repertorium Specierum Novarum Regni Vegetabilis* 12: 390, (1913). Type: "Queensland: Rockhampton, leg. Dallachy." **Bosistoa pentacocca** (F.Muell.) Baill. var. *pentacocca*. *Journal of the Arnold Arboretum* 58(4): 423, (1977). **Bosistoa pentacocca** var. *connaricarpa* (Domin) T.G.Hartley. *Journal of the Arnold Arboretum* 58(4): 424, (1977). **Bosistoa pentacocca** var. *dryanderensis* T.G.Hartley. *Journal of the Arnold Arboretum* 58(4): 425, (1977). Type: "Queensland. NORTH KENNEDY DISTRICT: Mt. Dryander, ... Moriarty 968 (CANB, holotype; BRI, isotype)".

### RFK Code

1254

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