

## *Bubbia queenslandiana* subsp. *australis* Vink

### Family:

Winteraceae

Vink, W. (1983) *Blumea* 28: 322. Type: Queensland. .. S.F.R. 310, W. side Mt. Bartle Frere, K.J.White QF 52/235 (type, BRI).

### Common name:

Winterwood; Australian Pepper tree

### Stem

Usually grows into a small tree but also flowers and fruits as a shrub about 5-6 m tall.

### Leaves

Twigs, leaves and petioles glabrous. Leaves crowded at the ends of the twigs and branches. Leaf blades +/- oblanceolate, about 7-16 x 2-4 cm, glabrous, almost white on the underside, petioles about 2-3 cm long. Oil dots visible with a lens at least from the upper surface. Leaves somewhat aromatic (?) when crushed. Lateral veins difficult to discern but forming loops or an intramarginal vein just inside the blade margin.

### Flowers

Inflorescence up to 3 cm long, shorter than the leaves. Calyx lobes variable in size and shape, about 1-2 mm long. Petals about 4-5 mm long. Stamens about 8-13, anthers sessile or on short swollen filaments. Ovaries about 25. Stigma linear, sessile. Ovules about 10 per ovary.

### Fruit

Fruits (fruiting carpels) globular, about 12 x 6 mm, aromatic when crushed emitting a piney odour. Seeds about 4.5 x 2.5 mm. Embryo small, about 0.3-0.5 mm long. Cotyledons no wider than the radicle.

### Seedlings

Cotyledons orbicular, about 8-9 mm diam., white on the underside. First pair of leaves produced just above the cotyledons, white on the underside. At the tenth leaf stage: leaf blade obovate, apex acute, base cuneate to attenuate, midrib depressed on the upper surface; lateral veins forming loops inside the blade margin; underside of the leaf blade completely white except for the midrib. Seedling completely glabrous. Numerous opaque glands visible with a lens on the underside of the leaf blade. Seed germination time 160 to 199 days.

### Distribution and Ecology

Endemic to NEQ, known only from collections made on the lower western slopes of Mt Bartle Frere. Altitudinal range not known but most collections made between 600-700 m. Grows as an understory plant in undisturbed upland rain forest.

### Synonyms

*Zygogynum queenslandianum* subsp. *australe* (Vink) Vink, *Blumea* 31: 54(1986).

### RFK Code

1136



Scale bar 10mm. © CSIRO



Cotyledon stage, epigeal germination. © CSIRO



10th leaf stage. © CSIRO

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