

# *Guioa sarcopterifruca* Welzen

## Family:

Sapindaceae

Welzen, P.C. van (1997) *Austrobaileya* 5: 104. Type: Qld, Big Tableland, 9 Jan 1996, K. R. McDonald 21; holo: QRS; Iso: L.

## Stem

Seldom exceeding 30 cm dbh. Pale brown, hard, brittle stripes in the inner blaze.

## Leaves

Leaflet stalks short or nil. Leaflet blades about 3.5-8.5 x 1.7-3.2 cm. One or two foveoles on the underside of the leaflet blade. Compound leaf rhachis channelled on the upper surface with a ridge running down the channel. Midrib raised on the upper surface of the leaflet blades.

## Flowers

Flowers about 4 mm diam. Sepals about 2-4 x 2-4 mm. Petals obovate, about 2.9-3.1 x 1.5-2.1 mm. Each petal with a 2-lobed scale on the inner surface. Stamens eight. Disk unilateral.

## Fruit

Capsules 3-lobed, about 2.5 x 2.2 cm overall before dehiscence, tapering to the base and the persistent calyx lobes. Capsules opening widely, valves glabrous on the inner surface. Seeds about 7-8 mm long, completely or almost completely enclosed in an orange or yellow aril, fimbriate at the apex. Cotyledons green, transversely folded, radicle about 4-5 mm long.

## Seedlings

Cotyledons thick and fleshy, about 15-17 x 4-5 mm. First pair of leaves with about seven leaflets, lateral leaflets with toothed margins and a raised midrib, terminal leaflet with a lobed margin. Rhachis ridged on the upper surface and margins narrowly winged. At the tenth leaf stage: compound leaves consist of about 10-14 leaflets terminated by a subulate point. Leaflet blades shortly petiolate, asymmetric particularly at the base. Domatia (usually no more than one per leaflet) are pits on the underside, located close to the midrib in the basal half of the leaflet blade. Terminal bud lightly clothed in golden hairs. Compound leaf rhachis grooved on the upper surface but with a ridge running down the middle. Seed germination time 10 to 12 days.

## Distribution and Ecology

Occurs in NEQ. Altitudinal range from 650-1000 m. Grows as an understory tree in well developed upland and mountain rain forest. Also occurs in New Guinea.

## Synonyms

***Guioa pteropoda* Radlk.**, *Sapind. Holl.-Ind.* 11: 41(1879), Type: New Guinea, Ansus, Beccari it. sec. 16; holo: FI. ***Guioa crenifoliola* Merr. & L.M.Perry**, *Journal of the Arnold Arboretum* 21: 514(1940), Type: NETHERLANDS NEW GUINEA: 4 km southwest of Bernhard Camp, Idenburg River, Brass 13082 (TYPE), March 1939, alt. 850 m.

## RFK Code

553



Fruit, side views and dehiscent. ©

W. T. Cooper



Scale bar 10mm. © CSIRO



10th leaf stage. © CSIRO



Cotyledon stage, epigeal germination. © CSIRO



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