

Stenocarpus sinuatus Endl.

Family:

Proteaceae

Endlicher, S.L. (1848) *Genera Plantarum Supplement.* 4(2): 88. Type: Lectotype: Anon. [? Weeks & Day] ssp. *sinuatus*. Cultivated. London.

Common name:

Yiel-yiel; Oak, White; Tulip Flower; Tulip Tree; White Silky Oak; Wheel of Fire Tree; Wheel-of-fire; Fire Tree; White Oak; Fire Wheel Tree; Oak, White, Silky; White Beefwood

Stem

Oak grain in the wood and a corresponding pattern in the inner blaze.

Leaves

Oak grain in the twigs. Leaf blades with lobed or entire margins on mature trees. Lobed leaf blades to about 48 cm long, entire leaf blades about 10-25 x 2-6 cm. Midrib raised on the upper surface of the leaf blade. Lateral veins forming loops well inside the blade margin.

Flowers

Inflorescence produced on the twigs below or back from the leaves, each umbel with about 12-15 flowers. Peduncles about 50-90 mm long. Pedicels about 8-12 mm long. Tepals about 40 mm long, outer surface puberulent, inner surface glabrous. Stamens sessile, anthers about 2.5 mm long. Hypogynous gland flat, sheathing 75% of the stalk of the ovary, gland up to 3 mm high. Ovary stalked, ferruginous-pubescent, about 3 mm long, ovules about 10-12. Style about 20-25 mm long, glabrous. Pollen presenter a broad, oblique disk.

Fruit

Follicles about 4-6 x 0.6-1 cm each containing up to 4 seeds. Seeds flat, about 2.5-3.5 x 0.7-0.9 cm, wing terminal. Embryo about 7-8 x 6-8 mm.

Seedlings

Cotyledons sessile, obovate, about 18-20 x 12-15 mm. First pair of leaves simple, sometimes lobed. At the tenth leaf stage: leaf blade simple, deeply lobed. Seed germination time 17 days.

Distribution and Ecology

Endemic to Australia, occurs in NEQ, CEQ and southwards to north-eastern New South Wales. Altitudinal range in NEQ from 700-1200 m. Grows in well developed upland and mountain rain forest but is probably more common in the drier type of rain forest associated with Kauri Pine (*Agathis robusta*).

Natural History & Notes

Commonly cultivated in Australia and overseas for its brilliant display of red flowers produced in wheel-like clusters.

Synonyms

***Cybele sinuata* (Loudon) Kuntze**, *Revisio Generum Plantarum* 2: 578(1891). ***Agnostus sinuata* Loudon**, *Hort. Brit.* 2nd edn : 580(1832), Type: Moreton Bay, A. Cunningham(?), BM. Fide Foreman (1995). ***Stenocarpus cunninghamii* Hook.**, *The Botanical Magazine* 72: t. 42(1846), Type: So long ago as 1828 the lamented Allan Cunningham discovered this plant on the banks of the Brisbane River, Moreton Bay. ***Stenocarpus sinuosus* var. *latifolius* F.Muell.**, *Fragmenta Phytographiae Australiae* 5: 154(1865), Type: J. Dallachy ad Rockingham Bay. ***Stenocarpus sinuosus* var. *intergrifolius* F.Muell.**, *Fragmenta Phytographiae Australiae* 5: 154(1865). ***Stenocarpus sinuosus* F.Muell.**, *Fragmenta Phytographiae Australiae* 6: 224(1868), Type: ad fluvios Tweed-, Richmond-, Brisbane-, Dawson-, et Burnett-River. ***Stenocarpus sinuosus* var. *sectus* F.Muell.**, *Fragmenta Phytographiae Australiae* 5: 154(1865), Type: C. Moore ad Mount Warning.

RFK Code

204



Leaves and Flowers. © CSIRO



Leaves and Flowers. © CSIRO



Fruit, two views and dehiscent. © W. T. Cooper



Scale bar 10mm. © CSIRO



Cotyledon stage, epigeal germination. © CSIRO



Cotyledon and 1st leaf stage, epigeal germination. © CSIRO

