Eucalyptus roycei

Shark Bay mallee

Classification

Eucalyptus | Eudesmia | Limbatae | Heteropterae | Tetraedrae

Nomenclature

Eucalyptus roycei S.G.M.Carr, D.J.Carr & A.S.George, Proc. Roy. Soc. Victoria 83: 159, figs 2-8 (1970).



T: Western Australia: near Hamelin Pool, 32.5 miles [52.3 km] along Loop Road, 64 miles [103 km] W of Overlander Road House, Great Northern Highway, 2 Mar. 1966, E.M. Scrymgeour 284 & S.G.M.Carr; holo: PERTH; iso: BRI, CANB, MEL, NSW.

Description

Mallee or small tree to 6 m tall. Forming a lignotuber.

Bark rough on the lower trunk, grey to grey-brown, fibrous, flaky; smooth bark above grey to grey-green to creamy green to brownish cream.

Branchlets usually glaucous but glaucescence diminishing with age; oil glands present in the

Juvenile growth (coppice or field seedlings to 50 cm): stems square to round in crosssection, with stellate hairs on the lower stem (of new re-growth); juvenile leaves alternate and petiolate, ovate to lanceolate, 6-12.5 cm long, 3-6 vm wide, apex acute, sometimes with hairs on the margins and midribs of lower leaves.

Adult leaves alternate, petioles 1-3 cm long; blade lanceolate to falcate, 6.5-14(15) cm long, (1.4)1.8-3(3.5) cm wide, base tapering to petiole, concolorous, dull grey-green to green, sideveins usually at an acute angle to midrib, occasionally wider, tertiary venation sparse to moderate, intramarginal vein present, oil glands mostly island.

Inflorescence axillary single or axillary compound, peduncles 0.9-2.8 cm long, buds 7 or 9 per umbel, pedicels 0.2-0.6 cm long. Mature buds cylindrical to obovoid, 1.4-2.1 cm long, 0.8-1.1 cm wide, hypanthium four-angled and usually glaucous, outer perianth whorl minutely sepaline, inner whorl operculate, operculum conical to rounded, stamens irregularly flexed, not grouped in four clusters, anthers oblong, versatile, dorsifixed, dehiscing by longitudinal slits (non-

confluent), style long (in bud often bent under the operculum), stigma tapered, locules usually 3 or 4, the ovules arranged in 4 distinct vertical rows on the placentae. Flowers white or cream or pale yellow.

Fruit pedicellate, pedicels 0.2-0.8 cm long, cylindrical to barrell-shape, quadrangular, 1.5-3 cm long, 1.5-3 cm wide, disc vertically descending, valves 3 or 4 enclosed.

Seeds dull brown to black, obliquely pyramidal with a small translucent flange around the edge, sides ribbed, 2-3.5 mm long, surface smooth, hilum terminal,

Cultivated seedlings (measured at node 10): cotyledons reniform; stems square to round in cross-section, not glaucous, hairy, leaves petiolate, opposite for ca 7 nodes then becoming alternate, ovate to lanceolate, 7-8.5 cm long, 3-5 cm wide, green, apex acute, base rounded to truncate to tapering, lamina glabrous except for a few hairs on the petiole, midrib and leaf margin.

Flowering Time

Flowering has been recorded in January, February and March.

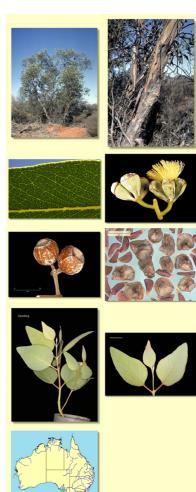
It is cultivated in Kings Park & Botanic Garden, Perth and could be an attractive ornamental small tree with its large yellow flowers.

Notes

A mallee or small tree endemic to Western Australia, restricted to sandy country west of Wannoo and south of Shark Bay. The bark is rough and flaky at the base and the adult leaves dull, light green to grey-green.

It is easily recognised in its natural area of occurrence by the large 'square' fruit and conspicuous yellow flowers.

Eucalyptus roycei belongs in Eucalyptus subgenus Eudesmia because of the combination of cotyledons reniform in shape and folded and



clasping in embryo, buds with the calyx free and evident as four small teeth around the midline of the bud. (Sections *Ebbanoenses* and *Reticulatae* in this subgenus have the calyx fused to the corolla and evident as four small teeth at the apex of the bud.) Within subgenus *Eudesmia, E. roycei* belongs in the section *Limbatae*, series *Heteropterae*, subseries *Tetraedrae*, that is further characterised by having seedling leaves with stellate hairs, the presence of oil glands in the pith of the branchlets, flanged more or less pyramidal seeds and buds and fruit square in cross-section. The other species in subseries *Tetraedrae* are *E. conveniens*, *E. pleurocarpa*, *E. extrica*, *E. eudesmioides*, *E. erythrocorys* and *E. gittinsii*. All these species can be easily distinguished by having buds in each leaf axil in groups of three (buds in groups of seven in *E. roycei*).

Origin of Name

Eucalyptus roycei: after Robert Dunlop Royce (1914- 2008). Robert Royce joined the staff of the Western Australian Department of Agriculture in 1937 and transferred to the State Herbarium in 1944, when it was still under the aegis of the Department of Agriculture. He became Curator, Western Australian Herbarium and then Officer-in-Charge, Botany Branch of the same department in 1960. His principal interests were in the application of botany to agriculture and conservation. He wrote many papers including The distribution of some of the more toxic plants of south-western Australia in the Western Australian Journal of Agriculture 1(6)1952, The Vegetation of Western Australia in Official Yearbook of Western Australia no. 5 (1965), The Genus Dryandra in Australian Plants 1 (7) 1961 and The Results of an Expedition to Bernier and Dorre Islands, Shark Bay, Western Australia, W.D.L.Ride et al. in Fauna Bulletin no. 2, Fisheries Department (1962).

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