

Lithocarpus pachyphyllus

Botanical name: *Lithocarpus pachyphyllus*

Common name: stone oak

Morphological Characters:

Trees to 25 m tall. Young branchlets covered with lamellate, rust-colored, waxy scalelike trichomes, sulcate. Petiole 1.2-1.5 cm; leaf blade elliptic to ovate-elliptic, 10-20 × 4-7 cm, thinly or thickly leathery, abaxially dark red when young, glaucous with age, and with minute lamellate waxy scalelike trichomes, base broadly cuneate and ± decurrent on petiole, margin entire and usually emarginate, apex caudate with tip blunt to rounded; secondary veins 9-15 on each side of midvein, adaxially impressed, abruptly curving apically, fusing near margin. Male inflorescences solitary in axils of leaves or terminal panicles. Female inflorescences in clusters of 2 or 3, to 15 cm; cupules in clusters of 3-5. Infructescences 3-6 mm. Cupule cupular, 0.5-2.5 × 1.5-4.6 cm, variable in size, enclosing most of nut or sometimes only 1/3-1/2 when mature, wall 2-4 mm thick; bracts fused with cupule and reduced to scars or triangular, irregularly multilateral, with rust-colored, lamellate, waxy scalelike trichomes. Nut depressed globose, 1.2-2 × 1.5-3 cm, glabrous, apex rounded to slightly pointed, wall 1-1.2 mm thick; scar 1.2-1.5 cm in diam., convex with impressed margin..



Growing Season and Type:

1. Flowering period is from May to Jun.
2. Fruiting period is from Aug-Sep of following year.
3. There are two varieties which are not very distinct and could be treated as a single species.
4. One has the leaf blade thinly leathery, and the scar confined to nut base, in the other species leaf base is thickly leathery and the scar covering is 1/3-1/2 of nut.



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1. Inflorescence of *Lithocarpus pachyphyllus*
2. Leaves of *Lithocarpus pachyphyllus*
3. *Lithocarpus pachyphyllus* tree

Source: http://www.caerhays.co.uk/page.cfm?page=oak_lecture