

**4. WOLFFIA** Horkel ex Schleiden, Beitr. Bot. 1: 233. 1844, nom. cons.,  
not *Wolfia* Schreber (1791).

无根萍属 wu gen ping shu

Fronds free floating on or beneath water surface, 1 or 2 coherent together, green on upper surface, green to transparent on lower surface, never reddish, symmetric, globose, ovoid, or boat-shaped, with 1 basal cavity reproducing daughter fronds, cavity not surrounded by a scale at base; veins absent. Pigment cells (in our species) absent in vegetative cells. Roots absent. Daughter fronds connected to mother frond by a very short stipe (not visible). Flower emerging from a cavity near median line of upper surface, not surrounded by a scale; ovary with 1 ovule; stamen 1, 2-locular. Seed 1, subsmooth.

Eleven species: nearly cosmopolitan; one species in China.

**1. *Wolffia globosa*** (Roxburgh) Hartog & Plas, Blumea 18: 367. 1970.

无根萍 wu gen ping

*Lemna globosa* Roxburgh, Fl. Ind., ed. 1832, 3: 565. 1832.

Fronds free floating on or just below water surface, green on upper surface, transparent green on lower surface, ovoid, 0.4–0.8 mm, 1.3–2 × as long as wide, 1–1.5 × as deep as wide, rounded or slightly pointed at apex; papillae absent. Turions

sometimes present, whitish green, globose, 0.2–0.8 mm. Fl. (very rare) Jun–Sep.  $2n = 16, 23, 30, 40^*, 46, 50, 60$ .

Lakesides, pools, ponds, ditches; in regions with warm-temperate to tropical climate; sea level to 1300 m. Fujian, Guangdong, Hainan, Henan, Hubei, Jiangsu, Jilin, Sichuan, Taiwan, Yunnan, Zhejiang [Bangladesh, Cambodia, India, Indonesia, Japan, Laos, Malaysia, Myanmar, Nepal, Pakistan, Philippines, Singapore, Sri Lanka, Thailand, Vietnam; introduced in North and South America].

In FRPS (13(2): 211. 1979), the name *Wolffia arrhiza* (Linnaeus) Horkel ex Wimmer was misapplied to this species.

