

**11. TIARELLA** Linnaeus, Sp. Pl. 1: 405. 1753.

黄水枝属 *huang shui zhi shu*

Pan Jintang (潘锦堂); Douglas E. Soltis

Herbs perennial. Rhizome short, slender. Leaves mainly basal, cauline ones few, small; stipules small; leaf blade simple and trilobed or subtrifoliolate. Inflorescence a raceme or panicle, simple or sparsely branched; bracts small. Flowers small; hypanthium adnate to ovary at base. Sepals 5, usually petaloid. Petals 5, sometimes absent. Stamens 10, visible above corolla. Carpels 2, connate basally; ovary 1-loculed; placentation parietal; styles 2, slender, elongate. Fruit a capsule; carpels unequal, one ca. 1/2 as long as the other. Seeds few, black, small, smooth.

Three species: one in China, the Himalayas, and Japan and one each in E and W North America: one species in China.

The two North American species are more closely related to each other than to either of the Asian species.

**1. *Tiarella polyphylla*** D. Don, Prodr. Fl. Nepal. 210. 1825.

黄水枝 *huang shui zhi*

Herbs 20–45 cm tall. Rhizomes creeping, dark brown, 3–6 mm in diam. Stems simple, densely glandular hairy. Leaves mostly basal; cauline leaves few. Basal leaves with petiole 2–12 cm, densely glandular hairy, base sheathlike; leaf blade cordate, 2–8 × 2.5–10 cm, palmately 3–5-lobed, both surfaces glandular hairy, base cordate, margin irregularly dentate, apex acute. Cauline leaves 2 or 3, similar to basal leaves but smaller and petiole shorter. Raceme 8–25 cm, densely glandular hairy. Flowers whitish, small; pedicel ca. 1 cm, glandular hairy. Sepals erect, ovate, ca. 1.5 × 0.8 mm, abaxially and marginally shortly glandular hairy, 3- to many veined, apex subacuminate. Petals absent. Stamens ca. 2.5 mm; filaments subulate. Carpels unequal, connate proximally; ovary shallowly subsuperior, appearing almost completely superior. Capsule 7–12 mm. Seeds few, dark brown, ellipsoid, ca. 1 mm. Fl. Apr–Nov.  $2n = 14$ .

Moist forests, shady wet places; 1000–3800 m. SE Gansu, Guangdong, Guangxi, Guizhou, Hubei, Hunan, Jiangxi, S Shaanxi, Sichuan, Taiwan, S Xizang, Yunnan [Bhutan, N India, Japan, N Myanmar, Nepal, Sikkim].

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