1. PLATANUS Linnaeus, Sp. Pl. 2: 999. 1753.

悬铃木属 xuan ling mu shu

Morphological characters and geographical distribution are the same as those of the family.

All three species in China are cultivated, usually as street trees. However, it is possible that *Platanus kerrii* Gagnepain (Bull. Soc. Bot. France 86: 301. 1939), described from Laos and also recorded from several places in N Vietnam, may yet be found as a wild plant in China (in SW Guangxi or S Yunnan). In this species, the stipules are very small, the petiole base does not enclose the axillary bud, the leaf blade is long elliptic and pinnately veined, with an entire margin, and the fruiting branchlets each have 8–12 rather small infructescences.

1a. Fruiting branchlets with (2 or)3–5 infructescences; central leaf lobe longer than wide; stipules less than 1 cm;

1. Platanus orientalis Linnaeus, Sp. Pl. 2: 999. 1753.

净土树 jing tu shu

Trees deciduous, to 30 m tall. Young branchlets yellowbrown tomentose, old ones glabrous, becoming red-brown after drying, small lenticellate. Stipules less than 1 cm; petiole terete, 3–8 cm, tomentose; leaf blade broadly ovate, $9-18 \times 8-16$ cm, deeply (3 or)5- or 7-lobed, both surfaces gray-yellow pubescent at first, glabrate and then pubescent only along veins abaxially, principal veins 3 or 5, arising from base, base shallowly cordate or subtruncate; central lobe $7-9 \times 4-6$ cm, margin lobed; lateral lobes shorter, margin coarsely dentate. Flowers 4-merous. Male flowers: sepals short, small; stamens much longer than petals; filaments very short; anthers elongate. Female flowers: sepals pubescent; petals oblanceolate; carpels 4; styles elongate, apex crispate. Fruiting branchlets with (2 or)3–5 infructescences. Infructescence capitate, 2–2.5 cm in diam. Achenes with persistent style spiniform, 3–4 mm; basal hairs yellow; both styles and hairs exserted from infructescence. Fl. Mar–May, fr. Jun– Oct.

Cultivated in China [native to SW Asia and SE Europe].

2. Platanus acerifolia (Aiton) Willdenow, Sp. Pl. 1: 474. 1797.

法国梧桐 fa guo wu tong

Platanus orientalis Linnaeus var. *acerifolia* Aiton, Hort. Kew. 3: 364. 1789; *P. hybrida* Brotero.

Trees deciduous, to 30 m tall. Young branchlets densely gray-yellow tomentose, old ones red-brown, glabrous. Stipules 1-1.5 cm; petiole 3-10 cm, densely yellow-brown pubescent; leaf blade broadly ovate, $12-25 \times 10-24$ cm, (3 or)5(or 7)lobed, gray-yellow pubescent on both surfaces when young, glabrate and then pubescent only at vein axils abaxially, principal veins 3(or 5), arising from base or lateral 2(or 4) from midvein above base, base subcordate or truncate; lobes entire or coarsely 1- or 2-dentate at margin; central lobe broadly triangular, as long as wide. Flowers usually 4-merous. Male flowers: sepals ovate, pubescent; petals oblong, ca. 2 × as long as sepals; stamens longer than petals; anther connective peltate, pubescent. Fruiting branchlets with (1 or)2(or 3) infructescences. Infructescence capitate, ca. 2.5 cm in diam. Achenes with persistent style spiniform, 2-3 mm; basal hairs absent or very short, not exserted from infructescence. Fl. Mar-May, fr. Jun-Oct.

Cultivated in C, NE, and S China [of cultivated origin in SW Asia or Europe].

This widely planted tree is either a hybrid between *Platanus occidentalis* and *P. orientalis* or a cultivar of *P. orientalis*; the origin has been much discussed but remains uncertain.

3. Platanus occidentalis Linnaeus, Sp. Pl. 2: 999. 1753.

悬铃木 xuan ling mu

Trees deciduous, to 40 m tall. Young branchlets yellowbrown tomentose. Stipules 2-3 cm, bugle-shaped, deciduous; petiole 4-7 cm, densely tomentose; leaf blade broadly ovate, 8- $20 \times 10-22$ cm, 3(or 5)-lobed, gray-yellow tomentose on both surfaces at first, soon glabrate and then pubescent only along veins abaxially, principal veins 3, lateral 2 arising from midvein ca. 1 cm above base, base broadly cordate, truncate, or subcuneate; lobes shortly triangular, margin coarsely numerous dentate. Flowers 4-6-merous. Male flowers: sepals and petals short, small; filaments very short; anthers peltate, elongate; connective glabrous. Female flowers: long tomentose at base; sepals short, small; petals $4-5 \times$ as long as sepals; carpels 4-6; styles elongate, longer than petals. Fruiting branchlets with 1(or 2) infructescences. Infructescence globose, ca. 3 cm in diam. Achenes obtuse at apex, with persistent style very short; basal hairs ca. 1/2 as long as achene, not exserted from infructescence. Fl. Mar-May, fr. Jun-Oct.

Cultivated in C and N China [native to North America].

PLATANACEAE