
**假水苏属** jia shui su shu

Herbs perennial, erect. Leaves sessile or petiolate, simple; leaf blade coarsely serrate. Verticillasters many flowered, numerous, remote or in spikes; bracteoles spinescent to linear-lanceolate, rigid or flaccid. Calyx obconical, 10-veined; teeth 5, equal, triangular, puberulent or silky-villous outside, glabrous inside, apex spinescent. Corolla reddish, 2-lipped; tube with oblique, interrupted villous annulus on basal 1/3 inside; upper lip erect, ovate, margin entire, densely villous outside, glabrous inside; lower lip spreading, glabrous, 3-lobed; middle lobe circular to obovate, apex emarginate; lateral lobes ovate. Stamens 4, ascending to underside of upper lip of corolla, anterior 2 longer, glabrous, posterior 2 puberulent; anthers ovoid, cells 2, divaricate. Style apex equally 2-cleft, lobes subulate. Disc apex truncate, undulate. Nutlets oblong, triquetrous, apex obliquely truncate, glabrous.

Three species: China, Kazakhstan, Kyrgyzstan, Tajikistan.

1a. Mid and basal stem leaves petiolate; petiole 0.5–3 cm; calyx subglabrous or appressed puberulent ........................................... 3. *S. oblongata*

1b. Stem leaves sessile; calyx silky-villous.

2a. Leaf base cordate; bracteoles and calyx teeth flaccid; upper corolla lip densely villous, lateral lobes of lower corolla lip ca. 1/3 as long as middle lobe ..................................................................................................................... 1. *S. lamiflora*

2b. Leaf base cuneate; bracteoles and calyx teeth rigid; upper corolla lip sparsely villous; lateral lobes of lower corolla lip ca. 1/2 as long as middle lobe ..................................................................................................................... 2. *S. marrubioides*


**心叶假水苏** xin ye jia shui su


Herbs perennial. Stems unbranched, erect, 40–80 cm tall, retorse pubescent, subglabrescent. Leaves sessile; mid stem leaf blades oblong-ovate, 5–10×3–5 cm, sparsely appressed pubescent, base rounded to shallowly cordate, margin coarsely crenate-serrate, apex acute; lateral veins 4 or 5 pairs. Verticillasters to 2.5 cm in diam., in widely spaced spikes; floral leaves gradually reduced upward, blade ovate-lanceolate, 3–6×1–2.5 cm; bracteoles flaccid, lanceolate-linear to linear, ca. 10×1–1.5 mm. Calyx teeth ca. 6 mm, narrowly triangular, apex spinescent- acuminate, villous outside, puberulent inside. Corolla ca. 1.6 cm, apex densely white or yellow villous outside; tube ca. 8 mm; upper lip ovate, concave, ca. 8×6 mm; lower lip spreading, subcircular, ca. 8×7 mm; middle lobe obovate to subcircular, ca. 5×5 mm, apex emarginate; lateral lobes subcircular, ca. 3 mm in diam. Ovary brown, glabrous. Nutlets chestnut brown, oblong, triquetrous, ca. 2×2.5 mm, base cuneate, apex obliquely truncate, glabrous. Fl. Aug, fr. Aug-Sep.

Subalpine meadows. Xinjiang [Kazakhstan].


**假水苏** jia shui su


Herbs perennial. Stems unbranched, erect, 25–90 cm tall, much branched at middle and toward apex, pubescent. Petiole 0.5–3 cm, densely pubescent; mid stem leaf blades oblong-ovate, 6–11×2–4.5 cm, sparsely pubescent, base broadly cuneate, margin coarsely acute serrate, apex long acuminate; lateral veins 4 or 5 pairs. Verticillasters 3–3.5 cm in diam., in widely spaced spikes; floral leaves sessile, oblong-lanceolate, 4–6×1–1.8 cm; bracts rigid, spiny, 8–10×0.5 mm, puberulent, ciliate. Flowers sessile. Calyx obconical, ca. 1 cm, puberulent outside; teeth ca. 5 mm, triangular, apex spinescent-acuminate. Corolla purple-red, ca. 2 cm, sparsely white villous on upper lip and middle of lower lip outside; tube ca. 1 cm; upper lip ovate, concave, ca. 10×8 mm; lower lip spreading, ovate, ca. 9×8 mm; middle lobe subentire, ca. 4×4 mm; lateral lobes ovate, ca. 2.5 mm. Ovary glabrous. Nutlets ovoid, triquetrous, ca. 3×2 mm, base cuneate, apex obliquely truncate, glabrous. Fl. Jul, fr. Aug-Sep.

Subalpine meadows, grassy slopes, thickets; 2000–2300 m. Xinjiang [Kazakhstan, Kyrgyzstan, Tajikistan].