

## 2. CLEOSERRATA Iltis, Novon 17: 447. 2007.

西洋白花菜属 xi yang bai hua cai shu

Herbs, annual, sparsely or profusely branched, glabrous. Stipules absent [scalelike, caducous] (petiolar spines sometimes present). Leaves alternate, spirally arranged, palmately compound; petiole long or short, with pulvinus at basal or distal end; petiolule bases connate forming a pulvinar disk; leaflet blades lanceolate to oblanceolate, margin ciliate-serrulate. Inflorescences terminal or axillary from apical leaves, racemose or sometimes flat-topped or elongated, elongating in fruit; bract present at base of pedicels, small. Flowers slightly zygomorphic. Sepals 4, equal, each often subtending a basal nectary. Petals 4, distinct, equal. Stamens 6; filaments adnate to basal ca. 1/4 of gynophore, forming an androgynophore. Gynophore slender, elongating and recurving in fruit; carpel 1; style short, thick; stigma 1, capitate. Fruit an oblong capsule, dehiscent. Seeds 10–40 per capsule, reniform, not arillate; cleft fused between 2 ends of seed.

Five species: Africa, tropical America, S North America, South America; one species (introduced) in China.

### 1. *Cleoserrata speciosa* (Rafinesque) Iltis, Novon 17: 448. 2007.

西洋白花菜 xi yang bai hua cai

*Cleome speciosa* Rafinesque, Fl. Ludov. 86. 1817; *C. speciosissima* Deppe ex Lindley; *C. yunnanensis* W. W. Smith; *Gynandropsis speciosa* (Kunth) Candolle.

Herbs, annual, 0.5–1.5 m tall. Stems simple or sparsely branched, fluted, glabrous or sparsely glandular pubescent. Petiole 2–12 cm, glandular pubescent; leaflets (3 or)5–9; leaflet blades narrowly lanceolate-elliptic, 6–15 × 1–5 cm, both surfaces glabrate to glandular pubescent, base attenuate, margin entire or serrulate, apex acuminate. Inflorescences 15–50 cm but 20–60 cm in fruit, glandular pubescent; bracts narrowly ovate-cordate, 0.3–1.8 cm. Pedicel 1–5 cm, glabrous. Sepals green, lanceolate, 4–7 × 0.8–1.2 mm, equal, distinct, persistent, glandular pubescent, base cuneate, margin entire. Petals brilliant pink to purple but fading to pink or white by second day,

rarely initially white, ovate, 1.5–4.2 × 0.8–1.1 cm, clawed. Androgynophore ca. 4 mm at anthesis; stamens 4–8.5 cm; anthers 6–10 mm. Pistil 6–10 mm; style 1–1.2 mm. Fruit gynophore 3–8.5 cm, with scars from filaments on ca. 1 cm of androgynophore and visible on ca. 1/4 of its length; capsule cylindrical but irregularly contracted between seeds, 6–15 cm × 3–5 mm. Seeds 10–30 per capsule, pale green to brown, subspherical, 2.5–3.5 × 1–1.2 mm, tuberculate. Fl. Aug–Nov, fr. Sep–Dec.  $2n = 48$ .

Disturbed places; near sea level to 1500(–3400) m. Introduced and sometimes escaped in Guangdong, Taiwan, and Yunnan [native to Mexico and Central America].

This species is often cultivated in gardens in S China and elsewhere in warm climates.

*Cleome yunnanensis*, described from China, is a variant of this species with mostly ternate leaves. The type, from Yunnan (*Forrest 13762*), probably represents escaped garden plants.

