

### 133. KUMMEROWIA Schindler, Repert. Spec. Nov. Regni Veg. 10: 403. 1912.

鸡眼草属 *ji yan cao shu*

Huang Puhua (黄普华 *Huang Pu-hwa*); Hiroyoshi Ohashi, Tomoyuki Nemoto

*Lespedeza* subg. *Microlespedeza* Maximowicz, Trudy Imp. S.-Peterburgsk. Bot. Sada 2: 346, 382. 1873; *Microlespedeza* (Maximowicz) Makino.

Herbs, annual, usually much branched. Leaves 3-foliolate; stipules membranous, large and persistent, usually longer than petiole, ciliate. Flowers 1 or 2, usually fascicled in axils of leaf, rarely 3 or more. Bracteoles 4, attached to lower part of calyx. Calyx 5-lobed. Corolla pink or purple; standard nearly equal to wings, often shorter than keel. Corolla and staminal column of perfect flowers deciduous at fruiting; corolla and staminal column of cleistogamous flowers clinging to legume and remaining until fruit matures, deciduous. Stamens diadelphous (9+1). Ovary 1-ovuled. Legume compressed, 1-jointed, indehiscent, 1-seeded.

Two species: China, Japan, Korea, and Russia; two species in China.

- 1a. Branchlets with downward-pointing hairs; leaflets with apex usually rounded; stipules long ciliate; pedicel glabrous; legume ca. 2 × as long as calyx or slightly longer ..... 1. *K. striata*
- 1b. Branchlets with upward-pointing hairs; leaflets with apex emarginate; stipules shortly ciliate; pedicel pubescent; legume 2.5–3 × as long as calyx ..... 2. *K. stipulacea*

**1. *Kummerowia striata*** (Thunberg) Schindler, Repert. Spec. Nov. Regni Veg. 10: 403. 1912.

鸡眼草 *ji yan cao*

*Hedysarum striatum* Thunberg in Murray, Syst. Veg., ed. 14, 675. 1784; *Lespedeza striata* (Thunberg) Hooker & Arnott; *Microlespedeza striata* (Thunberg) Makino.

Herbs, diffuse or prostrate. Stem and branchlets with downward-pointing white hairs. Stipules ovate-oblong, 3–4 mm, longer than petiole, striate, long ciliate; petiole 1–2 mm; leaflets obovate, narrowly obovate, or oblong, terminal one 0.6–2.2 cm × 3–8 mm, lateral veins dense, base nearly rounded or broadly cuneate, apex rounded, rarely emarginate. Flowers 1–3 in upper axils of leaves. Pedicel ca. 1 cm, glabrous; bracteoles 4, attached to proximal part of calyx, 1 very small bracteole placed at article of pedicel, others larger. Calyx 5-lobed. Corolla 5–6 mm; standard elliptic, base attenuate, clawed, auriculate; keel subequaling or slightly longer than standard; wings slightly shorter than keel. Legume orbicular or obovoid, slightly compressed, 3.5–5 mm, ca. 2 × as long as calyx or slightly longer, pubescent, apex mucronate. Fl. Jul–Sep, fr. Aug–Oct.  $2n = 22^*$ .

Sandy soils, streamsides, roadsides, grasslands; below 500 m. Anhui, Fujian, Guangdong, Guangxi, Guizhou, Hebei, Heilongjiang, Henan, Hubei, Hunan, Jiangsu, Jiangxi, Jilin, Liaoning, Nei Mongol, Shaanxi, Shandong, Shanxi, Sichuan, Taiwan, Yunnan, Zhejiang [India, Japan, Korea, E Russia, Vietnam; naturalized in SE United States].

The whole plant is used medicinally as a diuretic, for reducing

fever, and for treating diarrhea. It is also used for forage and green manure.

**2. *Kummerowia stipulacea*** (Maximowicz) Makino, Bot. Mag. (Tokyo) 28: 107. 1914.

长萼鸡眼草 *chang e ji yan cao*

*Lespedeza stipulacea* Maximowicz, Prim. Fl. Amur. 85. 1859; *L. striata* (Thunberg) Hooker & Arnott var. *stipulacea* (Maximowicz) Debeaux; *Microlespedeza stipulacea* (Maximowicz) Makino.

Herbs, prostrate, ascending, or erect. Stem and branches with sparse upward-pointing white hairs. Stipules ovate, 3–8 mm, longer than petiole or sometimes nearly equal, shortly ciliate; petiole short; leaflets obovate or broadly obovate, terminal one 0.5–1.8 cm × 3–12 mm, base cuneate, apex emarginate or nearly truncate. Flowers 1 or 2, axillary. Pedicel hairy. Calyx broadly campanulate; standard elliptic, shorter than keel, base attenuate, clawed, apex emarginate; wings narrowly lanceolate, nearly equal to standard; keel obtuse, with dark purple spots adaxially, intermixed with apetalous flowers. Legume ovoid or elliptic, ca. 3 mm, usually 2.5–3 × as long as calyx, slightly compressed. Fl. Jul–Aug, fr. Aug–Oct.  $2n = 20, 22^*$ .

Roadsides, grasslands, mountain slopes, stable or semistable sand dunes; 100–1200 m. Anhui, Fujian, Guangdong, Guangxi, ?Guizhou, Hebei, Heilongjiang, Henan, Hubei, Hunan, Jiangsu, Jiangxi, Jilin, Liaoning, Nei Mongol, Ningxia, Qinghai, Shaanxi, Shandong, Shanxi, Taiwan, Zhejiang [Japan, Korea, Russia; naturalized in SE United States].

This plant's uses are the same as those of *Kummerowia striata*.

