

*Crotalaria goreensis* Guill. & Perr. (**Leguminosae**), a newly naturalized species plant in Taiwan

台灣新歸化植物：西非豬屎豆

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## Abstract

*Crotalaria goreensis* Guill. & Perr. (Leguminosae) was recently discovered in Hengchun Peninsula, Taiwan, as a newly naturalized and potentially aggressive weed. A detailed description, photographs and geographic distribution are provided for identification of the species.

## 摘要

近年作者於台灣恆春半島發現之新歸化植物：西非豬屎豆。此植物為具有潛在危害的農田雜草，本文提供該種歸化植物的描述、彩色照片及地理分布以供鑑定用。

**Key words:** *Crotalaria goreensis*, flora, Leguminosae, naturalized plant, Taiwan.

**關鍵詞：**西非豬屎豆、植物誌、豆科、歸化植物、臺灣

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## Introduction

*Crotalaria goreensis* Guill. & Perr. (Leguminosae) is a newly naturalized species that belongs to **Leguminosae**, a major contributor to the naturalized flora in Taiwan (Wu et al., 2004; Chen, 2008). Naturalization events of several other **Leguminosae** species, such as *Aeschynomene americana* L. var. *glandulosa* (Pior.) Rudd, *Indigofera pseudo-tinctoria* Matsum., *Mimosa pigra* L., and *Trigonella hamosa* Forsk., were reported after the second edition of *Flora of Taiwan* was published (Wu and Huang, 1999; Yang and Peng, 2001; Chen, 2008; Jung et al. 2009). After publishing the latest checklist of alien plant in Taiwan (Ku et al., 2011), we report *Crotalaria goreensis* Guill. & Perr as one more newly naturalized **Leguminosae** plant in Taiwan. Descriptions and photographs of *Crotalaria goreensis* Guill. & Perr. are presented in this paper.

## Taxonomic Treatments

*Crotalaria goreensis* Guill. & Perr., Fl. Seneg. Tent. 1: 165. 1832. 西非豬屎豆 Fig 1.

Type: Senegal, *Perrottet 170* (syntypes: P!); *Perrottet s.n.* (syntypes: P!).

An erect annual or perennial herb, about 80 cm high, with many branches, finely pubescent throughout. Leaves trifoliolate, obovate to elliptic, 2.5–8 cm long, 0.5–2.5 cm wide, mucronate or rounded at apex, the upper surface glabrous, the lower surface pubescent; stipules lanceolate-falcate, 0.6–2 cm long; petioles erecto-patent, slightly silky, 2.5–3.5 cm long. Racemes terminal, up to 25 cm long, 12–20-flowered; pedicels ca. 3 mm long; calyx 4–5 mm long, 2–3 mm wide, pubescent; clefts lanceolate, covered with hairs; corolla yellow but often with orange or red-brown, twice as long as the calyx, not twisted. Pod 15–20 mm long, half as thick, oblong, when young densely silky, 10–12-seeded. Seeds 2.5–4 mm long, orange.

**Distribution:** Native in tropical Africa; naturalized in Australia and Taiwan.

**Habitat and phenology:** Open wasteland, ca. 20 m. Flowering and fruiting from October to February.



**Fig 1.** *Crotalaria goreensis* Guill. & Perr. A. habit; B. leaf; C. stipule; D. fruiting and flowering branch; E. flower; F. pod with seeds.

**Voucher specimens:** Pingtung: Houpi Lake, T. C. Hsu 5310 (TAIF); Hengchun, P. F. Lu 23600 (TAIF).

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