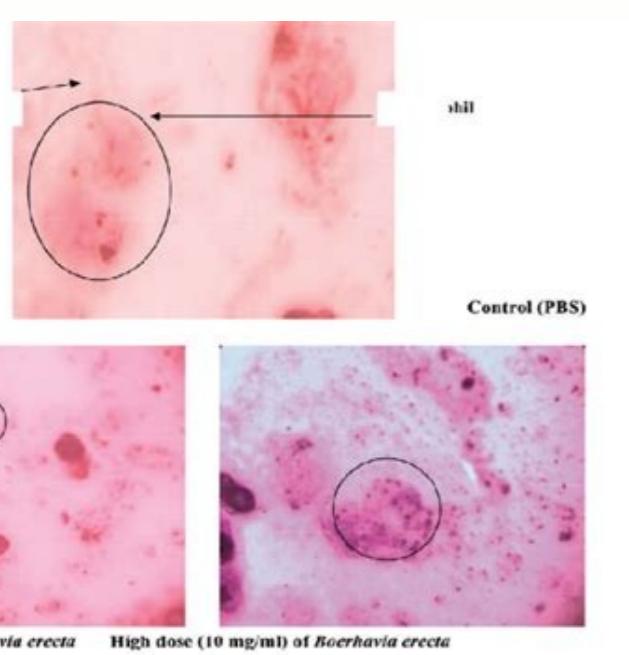


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Taiwania, 49(1): 39-43, 2004

## *Boerhavia erecta* L. (Nyctaginaceae), A New Adventive Plant in Taiwan

Fu-San Chou <sup>(1)</sup>, Ho-Yih Liu <sup>(1)</sup> and Chiou-Rong Sheue <sup>(1, 2)</sup>

(Manuscript received 9 January, 2004; accepted 4 February, 2004)

**ABSTRACT:** *Boehmeria erecta* L., a new adventive weed has recently been found growing along the Kaohsiung-Taichung railroad. It can be distinguished from *B. diffusa* L. by its ascending to erect habit, white to pink flowers and obconical glabrous fruit. The diagnostic key to species in Taiwan and the botanical description, along with a line-drawing illustration of the species, are given.

KEY WORDS: *Baileya erecta* L., Nyctaginaceae, Adventive plant.

## INTRODUCTION

The genus *Boerhavia* L., one member of Nyctaginaceae, is represented about 20 species in almost all tropical and subtropical areas of the world (Fosberg, 1978; Bittrich and Kühn, 1993). In Taiwan, two species were previously reported for the genus. *Boerhavia diffusa* L. was the first species recorded by Forbes and Hemsley (1891). *Boerhavia crispa* L., was lately added by Matsumura and Hayata (1906). However, Yang and Lu (1996) regarded the specimens of the latter species as being misidentified of the former. *Boerhavia diffusa* is therefore the only species being regarded occurring in this island (Yang and Lu, 1996; Yang *et al.*, 1997). Plants of *B. diffusa* grow along coast in the southern part of Taiwan and adjacent islands (Lu, 1976; Yang and Lu, 1996).

At the beginning of December in 2003, while the third author made a field collection along old shipment railroad of Kaohsiung Port in order to find possible remains of mangrove trees, she found a herbaceous species similar to *B. diffusa* but different from it in having ascending to erect habit, pale-white lower surface of leaves and glabrous fruit. The specimens of the unknown species were then taken to compare with the species of the genus in the vicinities of Taiwan, and the results indicated that the species is *B. erecta* L. Originally, the species is native to tropical America, with common names of erect spiderling, spindlepod, erect boerhavia, and upright spiderling (Randall, 2002). In Asia, it is distributed in Guandong of mainland China (Lu, 1996), the Ryukyus (Shimabuku, 1997) and Singapore, S. Sumatra, Java, Lesser Sunda Is., New Guinea and the Pacific (Stemmerik, 1964).

In Taiwan, so far, plants of the species were found growing along railroad from Kaohsiung of the southern part to Taichung of the central part. It is possible that the species was, at first, negligently brought into Kaohsiung by cargo in recent years, and has been quickly spreading along railroad. The plants of the species grow in open areas with arid or sandy soil, revealing its status as a pioneer species. This weed species can be expected to cover along railroad of the landless of the whole island in near future.

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