

Breeding of Winged Bean ‘Taitung No.1’

Ming-Tung Hsueh¹, Yun-Yin Hsiao², and Hsin-Yen Chen³

Abstract

New winged bean variety ‘Taitung No. 1’ was selected from line TD012 that was collected from Taitung area by Taitung District Agricultural Research and Extension Station. It was observed that the horticultural characteristics, such as flowers, immature pods and seeds of TD012 were segregating during the first year cultivation. After 3 generations of pure line selection, the horticultural characteristics of TD0102 were identically, and the line comparison trials, regional yield trials and DUS examination were then conducted in the following 2 years. The yield of winged bean ‘Taitung No. 1’ was high, with 11.5 ton/ha in fall which was 44% higher than TD001. Meanwhile, this new variety was day neutral characteristic that grown in spring with yields of 10.4 ton/ha. The immature pod is of green and good crispy taste with average length and weight of 23 cm and 26 g, respectively. Consequently, the new winged bean ‘Taitung No. 1’ could be expected to improve the indigenous legume vegetable industry of Taitung.

Keywords: Winged bean, Regional trial, Yield

¹ Assistant Researcher of Taitung DARES, COA.

² Assistant Specialist of World Vegetable Center.

³ Director of Taitung DARES, COA.