

Breeding of Winged Bean ‘Taitung No. 2 - Chun-Fong’

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Abstract

Winged bean germplasm of the Word Vegetable Center was introduced to Taitung district agricultural research and extension station in 2014. From 2014 to 2021, the lines with long-day-podding trait were selected and purified from the introduced germplasm. The selected lines were then jointed the line comparison trials, trials of different planting month in spring, yield, and DUS examination. Finally, the line ‘TOT4963P22’ was selected and named as ‘Taitung No. 2 - Chun-Fong’ in 2022. The pod of the ‘Taitung No.2 - Chun-Fong’ is green with serrulate pod wing but without spots, and pod length is very short (19.2 cm). It also possesses a good long-day podding ability that can extend the harvest season about 1.5 month in spring when compared to winged bean ‘Taitung No. 1’. In addition, the yield of the new variety in spring is 15 tons pods per hectares, i.e., 1.6 times more than ‘Taitung No. 1’. Consequently, winged bean ‘Taitung No. 2 - Chun-Fong’ is capable of helping drive both the winged bean industry and the indigenous vegetable industry of Taitung.

Keywords: *Psophocarpus tetragonolobus* (L.)DC., Breeding, Spring crop

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