

The Efficient Use of Plant Spacing and Bamboo Stick Form on Production and Quality of Long Bean Seeds (*Vigna Sinensis* L.), Wahyu Fajar Prasetyo, A41160400, Hlm, Agricultural Production, State Polytechnic of Jember. Dr. Ir. Nantil Bambang Eko S., M.Si (Advisor). Oktavianus Wawan, S.P (Assistant).

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ABSTRACT

Long bean is one of the legume plants that have great potential to be developed. To optimize long bean seed production can be done by adjusting the plant spacing and choosing the right form of the bamboo stick. The study was conducted with a randomized block design (RBD) with 12 treatment combinations and repeated 3 times. The first factor is the plant spacing, which is 30 cm x 60 cm, 35 cm x 60 cm, and 40 cm x 60 cm. The second factor is the form of bamboo stick, which consists of a pyramid form, an upright form, and a triangle form. The results showed that the plant spacing had a very significant effect on the parameters of leaf width, stem diameter, pod weight per block, number of pods per block, seed weight per hectare, weight 1000 grains, percentage of germination, and significant effect on leaf length parameter. The bamboo stick form treatment had a significant effect on the weight parameter of 1000 grains. The interaction between plant spacing and bamboo stick form had a very significant effect on the weight parameter of 1000 grains. In this study, plant spacing treatment gives relatively good results, especially in the J1 treatment (60 cm x 30 cm) gives the highest production of 1.3 tons per hectare.

Keywords : Beans, Plant Spacing, Form of Bamboo Stick