

Pengaruh Jarak Tanam Dan Tingkat Kemasakan Fisiologis Polong Terhadap Produksi Serta Mutu Benih Kacang Panjang (*Vigna sinensis* L.).
*(The Effect of Plant Spacing and Physiological Maturity Level of Pods on Production and Quality of Long Bean (*Vigna sinensis* L) Seeds. supervisor: Ir. Suwardi, MP*

Nurhadi Saputro

Study Program of Seed Production Technique

Department of Agricultural Production

ABSTRACT

Long bean is a popular vegetable in Indonesia, but its production continues to decline every year. One effort to overcome this problem is by adjusting the Plant Spacing and harvesting by taking into account the Physiological Maturity Level of the Pods. The purpose of this Study was to find the Plant Spacing and Physiological Maturity Level of the Pods on the Production and Quality of long Bean seeds. This research conducted at the PT. Wira Agro Nusantara Sejahtera in Pulosari Village, Pare District, Kediri from August to November 2019. This research uses the factorial randomized block design (RBD) method. By treating the plant spacing, J1 (30 cm x 60 cm), J2 (35 cm x 40 cm), J3 (40 cm x 60 cm) and treatment physiological maturity level of the pods, T1 (Yellow Green (Royal Horticultural Society color chart 2015, Yellow Green 145)), T2 (Yellow (Royal Horticultural Society color chart 2015, Yellow Green 151)), T3 (Brown (Royal Horticultural Society color chart 2015, Grayed Orange 165)). The result of the research showed that there was no interaction between the Plant Spacing treatment and the Physiological Maturity Level of the Pods for all the parameters observed. Plant Spacing treatments showed a significant Effect on the parameter of seed weight per hectare and seed growth rate. In the treatment of Physiological Maturity Level of the Pods show a significant Effect on all the parameters observed.

Keywords: Long Beans, Plant Spacing, Pod physiological maturity Period