

**Pengaruh Jarak Tanam dan Dosis Pupuk Bokashi terhadap
Produksi Benih Kedelai (*Glycine max* L.). *Effect of Planting
Distance and Dose of Bokashi Fertilizer on Soybean Seed
Production (Glycine max* L.). Supervised by : Dr. Ir. Nurul
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ABSTRACT

Domestic soybean demand is increasing every year, while the availability of domestic soybeans has not met the needs of the Indonesian people, so efforts are needed to increase soybean seed production to meet these needs. The purpose of this study was to determine the effect of planting distance and dosage of bokashi fertilizer on soybean seed production. This research was conducted from August 2022 to December 2022 at the innovation land of UPT Politeknik Negeri Jember, Jl. Mastrip, Krajan Timur, Kec. Sumbersari, Kab. Jember. The experimental design used was a Factorial Randomized Group Block with 2 factors and 3 replications. The first factor is planting distance which consists of 3 levels, namely J1 (40cm x 20cm), J2 (40cm x 25cm), and J3 (40cm x 30cm). The second factor is the dose of bokashi fertilizer which consists of 3 levels, namely D0 (no bokashi), D1 (fertilizer dose of 15 tons/ha), and D2 (fertilizer dose of 20 tons/ha). Data were analyzed using the ANOVA test and continued with the DMRT. The results showed that the results of plant spacing treatment had a very real effect on the parameters of plant height 20 days after planting (24.00 cm), plant height 40 hst (48.80 cm), plot seed weight (355.25 grams) and per hectare production (1184.16 kg), while the dose of bokashi fertilizer treatment had a very real effect on the parameters of the number of leaves 20 days after planting (12.44 strands), the number of leaves 40 days after planting (27.22 strands) and flowering age (35.83 days after planting). The interaction between the two treatments had no significant effect (ns) on all observation parameters.

Key words : *soybean, plant spacing, bokashi*