

Pengaruh Varietas dan Jarak Tanam Terhadap Produktivitas dan Mutu Benih Kedelai (*Glycine max L*) (Effect of Varieties and Spacing on Productivity and Quality of Soybean Seed (*Glycine max L*)) Supervisor : Ir. Suwardi, MP and Joko Restuono. S.P.

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ABSTRACT

*Soybean (*Glycine max L*) is one of the most important food crops in Indonesia besides rice and corn, Indonesian people's consumption of soybeans is certain to continue to increase every year by looking at several considerations such as increasing population, increasing income per capita, and public awareness of food nutrition. . This research was conducted in October 2021 – January 2022 at IP2TP Genteng. The study used factorial RAK with 2 treatment factors and 3 replications. The first factor is the soybean varieties Dega 1, Deja 2, and Dering. The second factor is the spacing of 25cm x 25cm, 30cm x 20cm, and 40cm x 15cm. The variety treatment had a very significant effect (**) on the parameters of plant height observation (V3=38.44cm), number of productive branches (V2=3.09), number of leaves 40 days after planting (V3=29.13), flowering age (V2 =39.20), pod weight (V1=38.74gr), seed weight (V1=30.66gr), number of pods per plant (V3=42.96), weight of 100 grains (V1=22.94gr) and production per hectare (V1=3025.94kg). While the varietal treatment had no significant effect (ns) on the parameters of plant height at 28 DAP, germination test, and growth speed test. For the treatment of plant spacing, it gave a very significant effect (**) on the observation parameters of plant height (J3=38.60cm), number of leaves (J3=29.13), pod weight (J3=36.49gr), seed weight (J3= 28.80gr), number of pods per plant (J3=41.07) and production per hectare (J3=2809.56kg). Meanwhile, the spacing treatment gave a significant effect (*) on the parameter of the number of productive branches (J3=2,9). Spacing treatment had no significant effect (ns) on the parameters of flowering age, weight of 100 grains, germination test, and growth speed test. Interaction of varieties treatment and spacing gave a very significant effect (**) only on the observation parameter of the number of branches (V2J3=3.67). Meanwhile, for other observation parameters, the interaction between varieties and plant spacing had no significant effect (ns).*

Key word: soybean, seed productivity, quality, varieties, spacing.