

**Pengaruh Jarak Tanam Pada Beberapa Varietas Terhadap Produksi dan Mutu Benih Kedelai Organik (*Glycine max (L.) Merril*), *The Effect of Planting Spacing on Several Varieties to Production and Quality of Organic Soybean Seeds (Glycine max (L.) Merril)*. Supervisor : Ir. Suwardi, MP.**

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### ***ABSTRACT***

*Soybean (Glycine max (L.) Merril). is one of the third important food ingredients after rice and corn. In addition, soybeans can be a good source of protein, carbohydrates, minerals and vitamins for the human body. This research was conducted on the organic land of PT. Sirtanio Organic Indonesia, Banyuwangi district. This research was conducted for 4 months from August to November 2022. The research design used was a factorial Randomized Block Design (RBD) with 2 factors. Factor 1 is the spacing, J1: 15 cm x 40 cm, J2: 20 cm x 40 cm, and J3: 25 cm x 40 cm. The second factor is variety, namely, V1: Dena 1, V2: Grobogan and V3: Gepak Kuning. Data were analyzed using the F test (Anova) and continued with DMRT calculations with an error level of 5%. The results showed that the J1V2 interaction gave the best results for a plant height of 28 after planting (DAP) with a yield of 37.05 cm, the J1V1 interaction gave the best results for a plant height of 42 day after planting (DAP) with a yield of 76.42 cm, the J3V3 interaction gave the best results for the parameter number of productive branches with a yield of 10.52, the number pods with a yield of 150.76, harvest age with a yield of 72.67 and the number of sample plant seeds with a yield of 193.24.*

**Key word :** *Soybean, seed production, seed quality, planting spacing, variety, Organic*