Pengaruh Pupuk Dasar Kotoran Ayam dan Jarak Tanam Terhadap Produksi dan Mutu Benih Kacang Hijau (*Vigna radiata* L.). (*The Effect of Basic Chicken Manure Fertilizer and Planting Distance on Production and Quality of Green Bean Seeds* (*Vigna radiata* L.)). *Supervised* by Ir. M. Bintoro, M.P.

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ABSTRACT

Mung beans (Vigna radiata L.) is legume crop that is widely consumed by the Indonesian people. Mung beans have an average productivity of 1.134 tons/ha, whereas the average productivity of mung beans can reach 1.60 tons/ha so that it can still be increased again by optimizing proper cultivation. In order to achieve high production, it is necessary to improve cultivation techniques, one of which is the use of quality seeds. One of the ways to increase production is the use of organic fertilizer and plant spacing. The research was conducted from October to December 2023 on the land of Antirogo Village, Sumbersari District, Jember Regency. The experimental design used was Factorial Randomized Block Design (RBD) which was repeated 3 times. The first factor is chicken manure fertilizer consisting of doses of 10 tons/ha (K1), 20 tons/ha (K2), and 30 tons/ha. The second factor is planting distance consisting of 40 cm x 15 cm (J1), 40 cm x 20 cm (j2), and 40 cm x 25 cm (J3). Data were analyzed using ANOVA, and continued with DMRT test at 5% level. The results showed that the interaction between chicken manure at a dose of 30 tons/ha and a spacing of 40 cm x 25 cm (K3J3) has a real effect on the number of pods per plant parameter of 21.08 pods.

***Keywords** : Green Mung Beans, Chicken Manure, Planting Spacing.*