

Pengaruh Pupuk Kandang Ayam dan MOL bonggol pisang terhadap Produksi dan Mutu Benih Kacang Hijau (*Vigna radiata* L.). (*Effect of Chicken Manure and NPK Fertilizer on the Production and Quality of Green Mung Beans Seeds (*Vigna radiata* L.)*). Supervisor by Dr. Ir. Nantil Bambang Eko S, M.Si.

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ABSTRACT

Green beans are a legume plant that is widely consumed by Indonesians because of its high protein, carbohydrate, and vitamin content. As time passed, the demand for green beans increased, which was offset by the increase in Indonesian population. However, the volume of production of green bean crops has not shown a stable figure every year, while on the crop size of green nuts crops tends to decrease. Efforts are needed to increase the productivity of green beans by providing quality seeds so that the production of green nuts increases. Efforts that can be made include improving soil quality with chicken cage fertilizer and banana molluscs. This study aims to find out the interaction between chicken cage fertilizer and banana mole MOL against the production and quality of green bean seeds. The research was conducted in October-December 2023 at the Jember State Polytechnic Experimental Land. The experimental scheme used was a triple factorial random group scheme (RAK). The first factor was the poultry cage fertilizer dosage consisting of 6 tons/ha (K1), 9 tons/he (K2), and 12 tons/h (K3). The second factor was a banana mole MOL consisted of 45 ml/l (P1), 90 ml/l (P2), and 135 ml/L. (P3). The data was analyzed using ANOVA, and continued with a 5-percent DMRT test. The results of the study showed that the interaction between the dose of 7 ton/ha chicken cage fertilizer and the MOL of banana cage (K3P3) yielded significantly different results on the number of stems per plant at a rate of 22.83 inches, on the weight of seeds per plant the treatment of the 135ml/l (P3) bananas cage MOL gave a real difference of effect at a ratio of 14.08 grams, the seed weight per plot at an rate of 281.50 grams and the production of seed per hectare at the rate of 1.99 tons/ha.

Keywords : *Chicken Manure, Banana MOL, Green Mung Beans*