

Application of solid organic fertilizer types and MOL (Local Microorganism) of banana hump on green bean production (*Vigna radiata L.*) varieties of Vima-1. Directed by Ir. Rr. Liliek Dwi Soelaksini, MP and Ir. Herlinawati, MP.

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ABSTRACT

This research aims to know the production of green bean (*Vigna radiata L.*) varieties of Vima-1 with the applications of solid organic fertilizer types and MOL (Local Microorganism) of banana hump. This study was conducted for 4 months starting from October 2016 to Januari 2017. The research was conducted in the field State Polytechnic of Jember, Summersari district of Jember district. This study used a Randomized Block Design (RBD) with 2 factorial. The first factor of giving the type of solid organik fertilizer (J) : control (J0), chicken manure 2 kg/plot (J1), goat manure 2 kg/plot (J2). The second factor was MOL concentration of banana hump (M) : control (M0), 100 ml/l (M1), 200 ml/l (M2), 300 ml/l (M3), consisting of 12 treatment combinations and 3 replications. Observation were made on plant height variable (cm), number of productive branches, number of sample pods, wet weight of sample pod, dry weight of sample pod, sample seed weight, seed weight of perplot, and weight of 100 seed. The result showed the treatment of chicken manure gave a real effect on the parameters of plant height 15 HST & 30 HST, dry weight of sampling pods and very significant effect on the weight treatment of seeds sampling and weight of 100 seeds. Treatment of MOL concentration of banana hump gave a real effect on the parameters of the number of productive branches. While the interaction type of solid organic fertilizer and MOL of banana hump not significant to all parameters.

Keyword : *Solid organic fertilizer, MOL of banana hump, Green bean varieties of Vima-1*