***Application of Organic Chicken Stable Fertilizer and Local Microorganism (MOL) of Gamal Leaf to the Mung Bean Seed (Vigna radiata* L.) *Production and Quality*.**

Yuli Fajaryanti
Seed Production Techniques Department of Agricultural Production
State Polytechnic of Jember
yulifajaryanti@gmail.com

ABSTRACT

The research was held for three months from August until December 2015. This research was carried out at land research and laboratory of State Polytechnic of Jember. This research used Complete Random Block Design that consisted of 9 combination of treatments. The first factor was the dosage of organic chicken stable fertilizer (A) which consisted dosage level of the organic chicken stable dosage 250 gram/polybag (A_1), the organic chicken stable fertilizer dosage 500 gram/polybag (A_2) and the organic chicken stable fertilizer dosage 750 gram/polybag (A_3). The second factor was local microorganism (MOL) of gamal leaf (G) which consisted of the MOL of gamal leaf concentration 60 ml/liter (G_1), the MOL fertilizer of gamal leaf concentration 90 ml/liter (G_2), and the MOL fertilizer of gamal leaf concentration 120 ml/liter (G_3). The research showed that the dosage of organic chicken stable fertilizer treatment (A) had significant result that affected to the number of plant height at 28 day after plant, the number of wet weight of harvest, and the number of dry weight of harvest. The best dosage was 250 gram/polybag (A_1). While the local microorganism of gamal leaf treatment significantly affected to the number of plant height at 28 day after plant, and the number of dry weight of harvest. The best concentration is 120 ml/liter (G_3). There is interaction of organic chicken stable fertilizer dosage and the MOL of gamal leaf concentration on the parameters of wet weight of harvest, dry weight of harvest, number of pods and seed weight each plants.

***Keywords**: Organic Chicken Stable Fertilizer Dosage, Local Microorganism (MOL) of Gamal Leaf, Seed Production, Mung Bean*