

Respon Pertumbuhan dan Produksi Tanaman Kacang Tanah (*Arachis hypogaea* L.) Terhadap Penambahan Pupuk Organik Cair (POC) BIO-M dan Pupuk SP-36. The Growth Response of Peanut (*Arachis hypogaea* L.) Production with additional of BIO-M Liquid Organic Fertilizer and SP-36 Fertilizer. Advisor : Ir. Hari Prasetyo, MP. and Ir. Moch. Bintoro, MP

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ABSTRACT

The development of peanut agriculture business can not be out from some problems, one of them is less precise cultivation technique, so it's needed an effort to fulfill market demand. One effort that can be used to increase production is by increasing liquid organic fertilizer that be able to fulfill the nutrition needs of plant because the application is more spread evenly and easy to be absorbed. The other effort is by using superior variety seed. This research was carried out at August – December 2015 at land research and Seed Technology Laboratory of State Polytechnic of Jember. This research was conducted by Randomized Block Design with 2 factors and 3 replications. The first factor was BIO-M Fertilizer Concentration (B) that was consisted by 3 levels, B1 = 3 cc/l, B2 = 5 cc/l, B3 = 7 cc/l. The second factor was SP-36 Fertilizer Dosage (P) that was consisted by 3 levels, P1 = 50 kg/ha, P2 = 60 kg/ha, P3 = 70 kg/ha. The data were analyzed by using F Test (ANOVA) and would be continued with 5% levels Smallest Real Difference (BNT) calculation. The result showed that the response of peanut growth and production to increasing of 7 cc/l BIO-M fertilizer (B3) gave significant effect (*) to filled out pod percentage parameter about 76,66 %. To the increasing of SP-36 Fertilizer did not give effect (not significant) to all parameters. And then there was no interaction between the increasing of BIO-M Fertilizer and SP-36 Fertilizer to all parameters.

Keywords: Concentration, Liquid Organic Fertilizer, Peanut