

The Effect of the Application of Organic Granule Fertilizer and Liquid Fertilizer on the Production of Peanuts

Eko Utomo Putra

Crop Production Technology Study Program

Agriculture Production Technology, State Polytechnic of Jember

e-mail : Dalmo0103@gmail.com

ABSTRACT

Peanuts (*Arachis hypogaea L.*) belong to bean plants and placed second to soybean. The plant has a very big potential to be developed because it has high economical value and domestic marketshare. The objective of this research is to maintain and gain bigger production of peanuts, Gajah variety. This research is conducted from August to November 2018, located at Tegal Gede Residence, Antirogo, Tegal Gede Residence, Jember Regency at the height of 89m above sea level. This research employs non-factorial Randomized Block Design. The dosage of organic granule fertilizer Petroganik and liquid organic fertilizer Super Aci containing 8 treatments, considering 4 levels of organic granule fertilizer and 4 levels of liquid organic fertilizer. Every treatment covers 4 repetition to generate 32 units of experiment and followed by enhanced testing of DMRT at the level of 5%. The result of this research reveals that the application of organic granule fertilizer of 6 gr/plant and the liquid organic fertilizer of 6 ml/L are the best treatments regarding the parameter of plant height of 28 post planting period, that is 22,6cm, with the weight per 100 seeds of 68 gr at the treatment of liquid organic fertilizer of 4 ml/L, respectively.

Keywords: peanuts, liquid organic fertilizer, granule organic fertilizer