

HENI DWI PUJI UTAMY NIM.14.03.1.1.1.00010. Effect of Dosage Solid Bio-Slurry to The Growth and Result Of Winged Bean (*Psophocarpus tetragolobus* L.). Under the guidance of **Dr. Ir. Eko Murniyanto, MP**

ABSTRACT

Solid bio-slurry was a solid waste from biogas derived from cow's dug. It was soft and the color was brown to black and can be used as fertilizer. This research aims to determine the effect of dosage solid bio-slurry to the growth and result of winged bean. This research was conducted from December 2017 to April 2018 at agrotechology research garden faculty of agriculture, Trunojoyo Madura of University. The design use in this research was Randomized Block Design (RAK) 6 treatment with 4 replications. Dosage of solid bio-slurry 0 ton/ha (B0), 2,5 ton/ha (B1), 5 ton/ha (B2), 7,5 ton/ha (B3), 10 ton/ha (B4), dan 12,5 ton/ha (B5). The observation data were analyzed with the analysis of variance, then tested further with Duncan Multiple Range Test (DMRT) at 5%. The result showed that the treatment of giving dosage of bio-slurry gave the significant effect to the observation variable to the length of tendrils, number of leaves, wet weight of leaves, weight dried leaves and can increase soil porosity.

Keywords : winged bean, dosage, bio-slurry, growth, result

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