

GROWTH AND YIELD RESPONSE OF ROSETTE PAK CHOI (*Brassica rapa var. rosularis*) ON VARIOUS LIQUID ORGANIC FERTILIZERS AND *Trichoderma sp.*

By : Kania Dewi

Supervised by : Ir Heti Herastuti and Ir. Darban Haryanto, MP

ABSTRACT

Rosette pak choi (*Brassica rapa var. rosularis*) is one of the kind of mustard greens that has high selling value than other mustard greens kinds. This research was aimed to know the effect of various liquid organic fertilizers and the addition effect of of *Thricoderma sp.*, and also knowing the interaction between various of liquid organic fertilizers and addition of *Trichoderma sp.* on rosette pak choi growth and yield. The research was conducted in Weron, Umbulhargo Village, Cangkringan on April until May 2018. This research used Randomize Completely Block Design factorial pattern with three replications. The first factor was various of liquid organic fertilizers consist P0= control (without liquid organic fertilizers), P1= cow urine, P2= cyperus grass+cowurine+red onion, P3= PGPR, and the second factor was *Trichoderma sp.* consist T0= without *Trichoderma sp.* and T1= *Trichoderma sp.* The observed data wareanalyzed by Analysis of Varian (ANOVA) and continued by DMRT test (Duncan Multiple Range Test) on 5% test level. The result showed that cow urine, cyperus grass+cow urine+red onion, PGPR gave the same yield while the using of *Trichoderma spgavenot* significantly different. There was no interaction between the using of liquid organic fertilizers with *Trichoderma sp.* on growth and yield of rosette pak choi.

Key words: rosette pak choi, liquid organic fertilizers, Trichoderma sp.