

EFFECT OF POC CONCENTRATION BASED ON *CROTALARIA JUNCEA* ON THE GROWTH AND YIELD OF SEVERAL VARIETIES OF

Supervised by Ir. Damanhuri, MP

Nur Hayati

Study Program of Food Crop Production Technology
Department of Agricultural Production

ABSTRACT

The scarcity of inorganic fertilizers is one of the causes of rice yield decrease. On the other hand the excessive and sustainable inorganic fertilizers can cause soil quality degradation, the solutions needed are increasing the organic fertilizers. This study aims to analyze the effect of POC of sun hemp on several varieties of rice. This study conducted in April-July 2022, in Blimbin Bondowoso Village, an experiment with a factorial Split Plot design with 3 replications of POC concentration as the main plot (0 ml/l, 10 ml/l, 20 ml/l, and 30 ml/l), and varieties as sub plots (Sintanur, M70D, Inpari Nutrizinc). The analysis data using Anova test followed by DMRT Test. The results showed that there were interactions on the variable number of productive saplings of varieties M70D as much as 16.93 saplings in the treatment of POC 10 ml/l, the amount of grain per panicle and the amount of grain weight per plot Sintanur varieties of 147.13 grains and 606.67 grams in the treatment of POC concentration of 30 ml/l, also 1000 seeds of sintanur varieties with range 38 gram in the treatment of POC concentration 10ml/l and the high variabel varieties M70D with 79,14 cm high as many as 28.62 saplings as the best treatment.

Keywords: *Rice, liquid organic fertilizer for baby plants, varieties of rice plants*