

**EFFECT OF BOKASHI RICE STRAW AND CONCENTRATION OF
LIQUID ORGANIC FERTILIZER (POC) ON GROWTH AND YIELD OF
CAYENNE PEPPER (*Capsicum frutescens L.*)**

By : Mega Oktafiyana

Supervised by :Abdul Rizal dan Endah Budi Irawati

ABSTRACT

Cayenne pepper production in Indonesia will reach 1.39 million tons in 2021, that number will decrease by 8.09%. One way to overcome this is by using organic fertilizers. Solid organic fertilizer using rice straw bokashi and liquid organic fertilizer using rice washing water. The purpose of this study was to determine the interaction of rice straw bokashi dosage and concentration of liquid organic fertilizer and to obtain rice straw bokashi and to determine the optimum concentration of liquid organic fertilizer to increase growth and yield. cayenne pepper plant. The research method used was a field experiment method with split plots. As the main plot/main plot of rice straw bokashi consists of 2 levels, namely the dose of 0 ton/ha, 10 ton/ha. As the sub plot/subplot is the concentration of liquid organic fertilizer consisting of 6 levels namely 0 ml/L, 15 ml/L, 30 ml/L, 45 ml/L, 60 ml/L and 75 ml/L. The data obtained were analyzed using the Regression Test at the 5% level and if there was a significant difference between the treatments, then BNT (Least significant difference) was performed. The results showed that there was no interaction between the 10 ton/ha rice straw bokashi dose and the 75 ml/L concentration of liquid organic fertilizer. Bokashi rice straw 0 ton/ha and 10 tons/ha there was no significant difference in any of the observed parameters. The best liquid organic fertilizer in the treatment of 75 ml/L.

Keywords: cayenne pepper, rice straw bokashi, liquid organic fertilizer