

**RESPONSE OF GROWTH AND PRODUCTION OF CHILLI PEPPER BY
PRUNING TOPS AND APPLICATION OF LIQUID ORGANIC
FERTILIZER WASTE OF BANANA PEELS**

By : Aditya Dani Kusuma

Supervised by : Ellen Rosyelina Sasmita and Alif Waluyo

ABSTRACT

The application of chilli pepper cultivation must be carried out optimally in order to increase the productivity of chilli pepper plants. This study aims to determine the effect of pruning shoots and liquid organic fertilizer from plantain peel waste on the growth and yield of chilli pepper plants. The study was conducted using a factorial Complete Randomized Block Design method with 3 replications. The first factor was the time of pruning shoots with 3 treatment levels, namely 14 DAP, 21 DAP and 28 DAP. The second factor was the application of liquid organic fertilizer to banana peel waste with 3 treatment levels, namely 400 ml, 500 ml and 600 ml. Plants without treatment as control. The research data were analyzed for diversity using Analysis of Variance at the 5% level, if there is a significant difference, continue with the Duncan's Multiple Range Test (DMRT) at the 5% level. The test between treatment and control was tested by Orthogonal Contrast. The results showed that there was no interaction between the time of pruning the shoots and the administration of POC banana peel waste for all parameters. Treatment of shoot pruning at 28 DAP gave better results on the parameters of plant height, number of branches, number of fruits per plant, fruit weight per plant, and yield per plot. The POC dose of 500 ml/plant of banana peel waste gave the best results on the parameters of the number of fruits per plant and fruit weight per plant.

Keywords : Chili pepper, pruning shoots, liquid organic fertilizer to banana peel waste