

Liquid Organic Fertilizer Application and Shoot Pruning Time on the Growth and Yield of Cucumber (*Cucumis sativus* L.)

Compiled by : Erma Zunita

Guided by : Rina Srilestari Dan Tuti Setyaningrum

ABSTRACT

Increasing the production of cucumber fruit can be done by proper cultivation, including through improving the cultivation of plants using Green Tonic liquid organic fertilizer and pruning shoots. The purpose of this study was to determine the interaction between Liquid Organic Fertilizer concentration and shoot pruning. The research method used was a field trial method arranged in Completely Randomized Block Design (RAKL). The first factor was the concentration of Liquid Organic Fertilizer which consisted of three levels, namely 2 ml/L, 4 ml/L and 6 ml/L. The second factor was shoot pruning which consisted of three levels, namely: Not Pruned, 10 HST and 20 HST. Data were analyzed by Analysis of variance (ANOVA) at 5% level. Then tested further with DMRT level of 5%. The results showed that there was an interaction between attack concentrations of Liquid Organic Fertilizer and pruning time on the parameters of stem diameter and number of leaves. Liquid Organic Fertilizer concentration of 2ml/l gave the best growth and yield on the parameters of fruit length, fruit weight per plant, plant fresh weight and plant dry weight. Pruning at 20 HST gave the best growth and yield on fruit length, fruit weight per plant, fresh weight and plant dry weight.

Keywords: Cucumber, Green Tonic, Shoot Pruning.