APPLICATION OF LIQUID ORGANIC FERTILIZER AND PRUNING TIME ON THE GROWTH AND YIELD OF CUCUMBER

(Cucumis sativus* L.*)

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ABSTRACT

Cucumber (*Cucumis sativus* L.) was an annual vegetable from the cucurbitaceae family which is widely consumed, especially in fresh form. One of the problems with cucumber plants is a decrease in yield caused by inappropriate cultivation techniques such as pruning and fertilization. The aim of this research was to determine the best pruning time and the best concentration of liquid organic fertilizer for the growth and yield of cucumber plants. This research was carried out at Kaliurang KM. 19, Pakem District, Sleman Regency, Yogyakarta Special Region. The method used was a field experiment by Split Plot Design calculations. The main plot was the pruning time from 3 levels without pruning, pruning 14 HST, pruning 2 DAP. The second factor is the concentration of liquid organic fertilizer (LOF) consisting of 3 levels, 20 mL, 40 mL and 60 mL/Liter. The data obtained were analyzed by ANOVA at the 5% level and further tested with DMRT at the 5% level. The results of the research showed that there was an interaction between the pruning time treatment and the concentration of liquid organic fertilizer on the total fruit number parameters. The 14 DAP pruning treatment gave the best results on plant height parameters at 14 DAP. as well as plant harvest age. Providing 40 mL/Liter liquid organic fertilizer gave the best results at plant heights of 14, 21 and 28 DAP**.**

Keywords*: Pruning, Liquid Organic Fertilize*