

**APPLICATION OF LAMTORO LEAF LIQUID ORGANIC FERTILIZER
AND TIMING OF SHOOT PRUNING ON THE GROWHT AND YIELD OF
CUCUMBER (*Cucumis sativus* L.)**

By: Santi Slamet

Supervised by: Tutut Wirawati and Rina Srilestari

ABSTRACT

Cucumber has a good market opportunity but cucumber productivity is still low at the farm level. This research was conducted at the experimental field of the Faculty of Agriculture, UPN "Veteran" Yogyakarta, located in Condongcatur sub-district, Depok district, Sleman regency, Yogyakarta Special Region. This study aims to examine the interaction between lamtoro liquid organic fertilizer concentration and shoot pruning time and determine the appropriate concentration of lamtoro liquid organic fertilizer and shoot pruning time on the growth, and yield of cucumber plants. This study was organized with a Split Plot Design. The Main Plot was the concentration of lamtoro liquid organic fertilizer consisting of 3 levels: 10%, 20%, and 30% liquid organic fertilizer. Sub Plot is shoot pruning time consisting of 3 levels, namely 14, 21, and 28 days after planting. Data were analyzed by Analysis of variance at $\alpha=5\%$ level and further tested by Duncan Multiple Range Test at 5% level. The research results showed an interaction with stem diameter 3 weeks after planting with the best value in the P1H1 combination, fruit weight per fruit with the highest value in the P3H3 combination, and harvest index with the highest value in the P2H3 combination. Liquid organic fertilizer concentration of 10% can accelerate the flowering age of cucumber plants compared to a concentration of 30%. Pruning shoots at 28 days after planting gave the best results in plant height 3 and 4 weeks after planting, flowering age, number of fruits per plant, and fruit weight per plant.

Key words: liquid organic fertilizer, shoot pruning, cucumber.