GROWTH AND YIELD RESPONSE OF CUCUMBER (CUCUMIS SATIVUS L) OF SHOOT TOPPING TIME AND PLANTING MEDIA COMPOSITION WITH DRIP IRRIGATION HYDROPONIC SYSTEM

By:

Rizkyta Cahya Putra

Supervised by:

Bambang Supriyanta and Maryana

ABSTRACT

The study aimed to determine the effect of shoot topping time and the composition of planting media that provide the best growth and production of cucumber with drip irrigation system. The research was conducted in the Greenhouse on Jl Palagan km 12, Sinduharjo sub-district, Kapanewon Ngaglik, Sleman district. In March to May 2023. The research method used a completely randomized design (CRD) with two factors. The first factor is topping time ; without topping, topping 15 DAP, topping 20 DAP. The second factor is the of composition planting media (charcoal + cocopeat), (75% + 25%), (50% + 50%), (25% + 75%), (0% + 100%). The results showed that there was an interaction between the time of topping shoots and composition of planting media on parameters of plant length at age of 20 DAP, 25 DAP, 30 DAP, 35 DAP, number of leaf 20 DAP, 30 DAP, 35 DAP,and fruit diameters. Shoot topping time of 20 DAP gave the best results on parameters of the number of productive branches, number of fruits, fruit weight per plant, harvest index. The composition of planting media 25% husk charcoal + 75% cocopeat gave the best results in the parameters of plant length 20 DAP, 25 DAP, 30 DAP, 35 DAP, number of productive branches, number of fruits, fruit length, and harvest index.

Keywords: Cucumber, Topping, Planting Media