

# **GROWTH AND YIELD OF SOME VARIETIES OF CUCUMBER (*Cucumis sativus* L.) ON ALLUVIAL SOIL**

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## **ABSTRACT**

This study aims to determine the growth and the yield of several varieties of cucumbers cultivated on Alluvial soils. The research was carried out in the fields of Dabag, Condongcatur, Sleman, Special Region of Yogyakarta. The research location is located at an altitude of 114 meters above sea level. The research was conducted from May to June 2024. This research method uses a Complete Group Random Design (CGRD) with the treatment of 7 varieties, namely the Mahir, Top Tavi, Laguna, Sembada, Hercules Plus, Zatavy, and Semi that are repeated 3 times. Observational data were analyzed using variance and further tests using the Duncan Multiple Range Test (DMRT) at a real level of 5%. The parameters observed include plant height, stem diameter, number of leaves, fruit length and diameter, and fruit weight of the plant. The results of the research showed that Mahir, Top Tavi, Sembada and Semi cucumber varieties showed the best growth components on alluvial soil regarding plant height at 14 dap, 21 dap and 28 dap, stem diameter at 14 dap, 21 dap and 28 dap, number of strands leaves at 14 dap, 21 dap and 28 dap, and flowering age. The Zatavy variety of cucumber provides the best yield components on alluvial soil in terms of fruit length, fruit diameter, fruit weight and fruit weight per plant.

**Keywords:** Cucumber (*Cucumis sativus* L.), productivity and superior varieties, Alluvial soil