

**GROWTH AND YIELD RESPONSES OF SEVERAL
VARIETIES OF CUCUMBER (*Cucumis sativus* L.) ON THE PLANTING OF
MULTIPLE FRUIT PEEL WASTE LIQUID ORGANIC FERTILIZER**

By: Manuel Apriliyo

Supervised by: Darban Haryanto

ABSTRACT

*Cucumber (*Cucumis sativus* L.) is a type of vegetable from the cucurbitales family that is popularly grown by farmers in Indonesia. One of the obstacles of cucumber plants is experiencing a decrease in yield production caused by improper farming techniques such as variety selection and fertilization. The purpose of this study was to determine the best variety and liquid organic fertilizer on the growth and yield of cucumber plants. The research was conducted in the greenhouse of the Experimental Garden of the Faculty of Agriculture UPN "Veteran" Yogyakarta. The experimental method used a factorial completely randomised design (CRD). The first factor as the variety consisting of 3 levels of Mira variety, Zatavy variety, Hercules variety. The second factor as the type of Liquid Organic Fertilizer (LOF) consisting of 3 levels of Pineapple peel, Banana peel, Papaya peel. Each treatment was repeated 3 times. The data obtained were analysed with ANOVA at the 5% level and further tested with DMRT at the 5% level. The results showed that there is an interaction between the treatment of type of variety and type of liquid organic fertilizer on fruit diameter parameters. The type of Hercules variety gave the best results on the parameters of plant height 2 weeks after planting, number of leaves 2, 4, and 6 weeks after planting, and harvest age. The type of liquid organic fertilizer pineapple fruit peel gave the best results on the parameters of the age of first flower appearance.*

Keywords: *Cucumber Variety, Liquid Organic Fertilizer*