

**THE EFFECT OF MORINGA LEAF LIQUID ORGANIC FERTILIZER
AND GIBBERELLIN HORMONE CONCENTRATION ON THE GROWTH
AND YIELD OF BABY CUCUMBER PLANTS (*Cucumis sativus L.*)**

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ABSTRACT

Cucumber (*Cucumis sativus L.*) is a horticultural plant that has many benefits. Efforts to increase the productivity of baby cucumbers by using environmentally friendly fertilizers in the form of moringa leaf liquid organic fertilizer and gibberellin hormone to accelerate the flowering period. Purpose of the study was to determine the growth and yield of baby cucumber plants by giving several concentrations of moringa leaf POC and gibberellin hormone. The research method was a two-factor Completely Randomized Block Design (CRBD) and one control. First factor is the concentration of moringa leaf organic fertilizer 150 ml/L, 200 ml/L, and 250 ml/L, second factor is concentration of gibberellin 200, 250, and 300 ppm. The control treatment was NPK fertilizer (16:16:16). Data analysis used variance analysis at the 5% level and continued with DMRT test at the 5% level, to determine the real difference between the control and the treatment combination with orthogonal contrast test. The results showed there was an effect on the treatment of moringa leaf organic fertilizer concentration of 150 ml/L water and gibberellin hormone concentration of 200 ppm on the parameters of days to appear flowers and fresh fruit weight per plant.

Keywords : *Cucumber, Moringa Leaf Liquid Organic Fertilizer, Gibberellin Hormone*