

**Aplikasi Pupuk Daun Fase Vegetatif dan Pemangkasan Pucuk Terhadap Produksi dan Mutu Benih Mentimun (*Cucumis sativus* L).** *Application Of Foliar Fertilizer Vegetative Phase and Shoot Pruning On Seed Production and Quality Cucumber (*Cucumis sativus* L):* Ir. Mochamat Bintoro, MP and Oktavianus Wawan Dwi, S.P

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### **ABSTRACT**

*Cucumber is an annual plant whose life is creeping or climbing on twisted or spiral. To meet the needs of cucumbers, it can be started by providing quality seeds by optimizing cucumber seed production activities through the application of gandasil D leaf fertilizer as well as shoot pruning treatment. The purpose of this study was to determine the effect of interaction between gandasil D leaf fertilizer and shoot pruning on the production and quality of cucumber seeds. The research was conducted for 3 months at PT. Wira Agro Nusantara Sejahtera Kediri with a factorial randomized block design (RBD). The first factor is the concentration of gandasil D leaf fertilizer (K) with 3 levels, namely Concentration of 0 grams/liter (K0), Concentration of 2 grams/liter (K1), and Concentration of 4 grams/liter (K2). While the second factor was shoot pruning (P) with 3 levels, without pruning (P0), trimming shoots on the 10th segment (P1), and trimming the shoots on the 20th segment (P2). Data were analyzed by ANOVA followed by Duncan's Multiple Range Test further test at 5% significance level. The results showed that the concentration treatment of gandasil D leaf fertilizer had a very significant effect on fruit weight, but had no significant effect on other parameters. The shoot pruning treatment had a very significant effect on fruit weight, fruit diameter, seed weight per plant, seed weight per hectare, and weight of 100 grains. Cucumber plants that were trimmed at the 20th segment (K2) showed the highest values, namely 5.29 cm for fruit diameter, 12.66 grams for seed weight, 394.60 grams for fruit weight, and 2.23 grams for weight of 100 grains. The interaction of the two treatments only affected fruit weight, where cucumber plants fertilized with gandasil leaves with a concentration of 4 grams/l (K2) and trimmed shoots on the 20th segment (P2) had the highest fruit weight, which was 278.40 grams.*

**Key words:** *cucumber seed, shoot pruning, gandasil D leaf fertilizer Application*