

**Aplikasi Pupuk Guano dan Pemangkasan Pucuk terhadap Produksi dan Mutu Benih Mentimun (*Cucumis sativus* L.). (Application of Organic Guano and Shoot Pruning on Production and Seed Quality of Cucumber (*Cucumis sativus* L.)).**

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***ABSTRACT***

*The research about Application of Organic Guano Fertilizer and Shoot Pruning on Production and Seed Quality of Cucumber (*Cucumis sativus* L.) was conducted over three months starting from August to October 2016. Cucumber Seed Production Research conducted in the field State Polytechnic of Jember. Research conducted in seed quality testing laboratory Seed Production Techniques of State Polytechnic of Jember. This study used a Randomized Block Design (RBD) with 2 factors and 3 replications. The first factor was organic guano fertilizer (G), which dose consisted of 10 ton/Ha (G1), 15 ton/Ha (G2), 20 ton/Ha (G3). The second factor was shoot pruning (P), shoot pruning on the 15<sup>th</sup> stem internode (P1), shoot pruning on the 20<sup>th</sup> stem internode (P2), shoot pruning on the 25<sup>th</sup> stem internode (P3). Observation data on each parameter were analyzed by using the formula F test (ANOVA) followed by the calculation of the level of 5% DMRT. The results showed that treatment of organic guano fertilizer no significant effect on all parameters of observation. While the treatment of shoot pruning significant effect on the observation parameters, total of fruits per plant, fruits weight per plant, fruits weight per fruit, seed weight total per plant, seed weight contain per plant, seed weight empty per plant, the number of seed production per hectare, and germination speed. For the treatment of the interaction between organic guano fertilizer and shoot pruning significant effect on the observation parameters the number of fruits weight per fruit.*

**Keyword:** *Organic Guano Fertilizer, Shoot Pruning, Production, Seed Quality*