

*(Effect of Branch Maintenance and Topping Pruning on Cucumber Seed Production (Cucumis sativus L.) code 1046) Supervised by : Leli Kurniasari S. P. , M.Si and Taufik, SP.*

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### **ABSTRACT**

*Cucumber is a horticultural plant of the cucurbitaceae family that is much favored by the public because it has many benefits for both consumption and health. One of the method to increase the production of national cucumbers independently is by modifying plant cultivation techniques. This study aimed to determine the effect of branch maintenance and topping pruning on cucumber seed production. This research was conducted from January 2020 until April 2021. This study used a Factorial Randomized Complete Block Design (RCBD) method with 2 factors. The first factor is maintenance of branches with 3 levels, namely maintenance of 1 main stem and all branches (P1), maintenance of 1 main stem + 1 branch (P2) and maintenance of 1 main stem + 2 branches (P3). The second factor was topping pruning with 3 levels, namely no pruning (T1), 20th internode shoot pruning (T2) and 30th internode shoot pruning (T3). The results of this study showed that the branch maintenance treatment very significant effect on the parameters of the number of fruit planted 6,18 pieces, the amount of pollinated interest is 15,58, the stem diameter parameter 1,01 cm, and parameter of seed weigh per plant 15,69 gram. The shoot pruning treatment showed very significantly different results on the parameters of the number of seeds per fruit 137,19 grains, seed weight per fruit 2,78 gram, stem diameter 0,82 cm, parameter of seed weight per palnt 15,69 grams and a significant effect on the parameter 1000-seed weight 2,16 gram. The germination observation parameter not significantly results on all treatments. The treatment interaction between branch maintenance and top pruning not significantly different results on all parameters.*

**Key words:** *Cucumber, branch maintenance, top pruning (topping), seed*