

Effect of AB Mix Concentration and Topping on Seed Production and Quality of Japanese Cucumber (*Cucumis sativus* L.) supervised by Leli Kurniasari, S.P., M.Si and Taufik, S.P.

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ABSTRACT

*One of the efforts to fulfill the needs of national cucumbers independently is by modifying plant cultivation techniques. This study aimed to determine the concentration of AB Mix and the effect of tops on the productivity of japanese cucumber seeds. This research was conducted in October 2020 – February 2021 at the Seed Production Research Land of PT. Asian Image Seeds of Jember. This study used a factorial Randomized Block Design (RBD) with 2 factors and with 3 replication times. The first factor was the concentration of AB Mix with 3 levels, namely 2.5 $\mu\text{S}/\text{cm}$ (N1), 3 $\mu\text{S}/\text{cm}$ (N2) and 3.5 $\mu\text{S}/\text{cm}$ (N3). The second factor was the top of the shoot with 3 levels, namely without Topping (T1), the top of the 18th segment (T2) and the top of the 20th segment (T3). Then, the data obtained were tested using ANOVA and the 5% BNT test. The results of this study indicated that the concentration of AB Mix 3.5 $\mu\text{m}/\text{cm}$ has a very significant effect (**) on the number of seeds with a value of 455.56 grains and a weight of 100 grains with a value of 1.41 and has a significant effect (*) on the parameter the number of seeds was 427.69 grains, seed weight per fruit was 2.26 grams and germination was 47.67%. In the 20th internode shoot pruning treatment, it had a very significant effect (**) on the number of seeds with a value of 439.33 grains and the number of seeds 428 grains. The treatment interaction between the concentration of AB Mix with the pruning of the main stem shoots gave no significant effect.*

Keywords: *japanese cucumber, AB Mix concentration and Topping.*