

The Effectiveness of Flower Proportion And Female Flower Petals Plucking on Japanese Cucumber Seed Production in Greenhouses. Leli Kurniasari, S.P., M.Si. (Supervisor) Dr., Ir. Nurul Sjamsijah (Head Of Examiner), Eva Rosdiana S.P., M.P (Member Of Examer)

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ABSTRACT

Japanese cucumber or Kyuri is a highly demanded agricultural product because of its high economic value and unique characteristics compared to local cucumbers. One of the methods to increase the production of Japanese cucumber seed is by improving the cultivation techniques of the seed producers. Some of those cultivation techniques are flower proportion and female flower petals castration. This study aimed to determine the effectiveness of flower proportion and female flower petals castration on the production of Japanese cucumber seed in greenhouses. This study used a factorial CRD (Completely Randomized Design) method by employing two treatments, namely the flower proportion P1 (1♂ : 2♀), P2 (1♂ : 1♀), and P3 (2♂ : 1♀); and female flower petals plucking K1 (without petal) and K2 (with petal). Each of these treatments was repeated four times. The results showed no interaction between the treatment of flower proportions (P) and female flower petals castration (K). The proportion treatment of P3 showed very significantly different results in the parameters of the seed numbers of each plant (784,14), the number of pithy seeds of each plant (460,42), and pithy seeds weight of each plant (11,13 gram); and not significantly different results in the parameters of the number of harvested fruit from each plant, fruit length, fruit diameter, and 1000-seed weight. The female flower petals plucking treatment (K1) showed significantly different results in the parameter of seeds number in each plant (385,22), and not significantly different results in the parameters of the fruit number of each plant, fruit length, fruit diameter, seed number of each plant, pithy seeds weight, and 1000-seed weight.

Keyword: Japanese Cucumber Seed Production, Flower Proportion, Female Flower Petals Plucking