Pengaruh Proporsi Bunga Jantan dan Penambahan Pupuk Majemuk Terhadap Produksi Benih Mentimun Jepang (*Cucumis sativus* var *japanese*) Hibrida Kode 14380. *Effect of Male Flower Proportion and Addition of Compound Fertilizer on Production of Japanese Cucumber Seed (Cucumis sativus var japanese) Hybrid Code 14380. Supervised by:* Ir. Sri Rahayu, MP

Muhammad Yusril Ferdista Arfinsyah
Study Program of Seed Production Technique
Department of Agricultural Production
Program Studi Teknik Produksi Benih
Jurusan Produksi Pertanian

ABSTRACT

Japanese cucumber is one type of cucumber that is in great demand. Efforts that can be made to meet the community's need for Japanese Cucumber and optimize local and international market opportunities are to improve plant genetics and apply good and correct cultivation techniques. The purpose of this study was to determine the effect of the proportion of male flowers and the addition of compound fertilizers on the production of hybrid Japanese Cucumber seeds code 14380. The study was carried out in October 2021-January 2022 at the farm Wirowongso land, PT. Benih Citra Asia Jember. The experimental design used was a factorial Randomized Complete Block Design (RCBD) with 4 replications. The first factor is the proportion of male flowers consisting of P1 (1 male flower: 1 female flower) and P2 (2 male flowers: 1 female flower). The second factor was the addition of compound fertilizer consisting of F0 (control), F1 (mixture of MKP and Ultradap fertilizer) and F2 (Ultradap fertilizer). The data in this study were processed using the variance test (ANOVA) and continued with the LSD test with an error rate of 5%. The results showed that the proportion of male flowers had no significant effect on all observation parameters. The addition of compound fertilizer had a significant effect with the best treatment the addition of Ultradap fertilizer on the number of seeds per fruit with a value of 161.81 grains, seed weight per fruit with a value of 4.40 grams, weight of 1000 seeds with a value of 27.49 grams, and seed production per hectare with a value of 275.02 kg. The interaction of male flower proportion treatment and the addition of compound fertilizer had no significant effect on all observation parameters.

***Key words**: Japanese cucumber, proportion of male flowers, compound fertilizer*