

Pengaruh Variasi Jarak Tanam dan Jumlah Buah Terhadap Produksi dan Mutu Benih Tanaman Paria (*Momordica charantia* L.) (*The Interaction between plant spacing and the number of fruit toward seed quality of bitter melon (*Momordica charantia* L.)*) Advisor Ir. Sri Rahayu, MP. and Oktavianus Wawan D. S., SP.

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ABSTRACT

*One of effort to fulfil the national bitter melon production is by cultivation system improvement. The research aims to find out the interaction of plant spacing and the number of fruit toward seed quality of bitter melon (*Momordica charantia* L.). This research conducted from October 2020 – February 2021 in the Research and Development land of PT. Wira Agro Nusantara Sejahtera Pare, Kediri. The research used factorial Randomize Complete Block Design (RCBD) with three replications. The first factor is plant spacing with 3 levels, they are 30 cm x 80 cm, 40 cm x 80 cm and 50 cm x 80 cm. the second factor is the number of fruits they are 4 fruits, 6 fruits and 8 fruits. The data will be analyzed using analysis of variance and continued with DMRT level of 5%. The reseach showed that the treatment of plant spacing variance has very significant effect on the seed quality of bitter melon. The treatment of plant spacing 50 cm x 80 cm showed the best result on the parameter of weight of 1000 seeds 167,39 gram, the percentages of seed germination 93,17% and the percentages of growing speed 18,16%. The treatment of number of fruits has very significant effect on the parameters of weight 1000 seeds 170,12 gram, the percentages of seed germination 95,33 % and the percentages of growing speed 21,41%. The interaction of plant spacing and the number of fruit gave very significant effect on the parameters of seed production per hectare 2,95 ton/ha, the weight of 1000 seeds 170,12 gram, the percentages of seed germination 95,33% and the percentages of growing speed 21,41%.*

Key words: *Bitter melon, plant sapcing, seed quality, the number of fruit.*