

Pengaruh Penjarangan Buah dan Penentuan Umur Panen Terhadap Produksi dan Mutu Benih Paria Hibrida (*Momordica charantia* L.). (*Effect of Fruit Thinning and Determination of Harvest Age on the Production and Quality of Bitter Melon Seeds Hybrid (Momordica charantia L.)*) Supervised by: Dr. Ir. Rahmat Ali Syaban, M.Si.

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ABSTRACT

*Bitter melon is a horticultural commodity that has a distinctive bitter taste. This research aims to find out the interaction of fruit thinning treatment and determining harvest age on the production and quality of hybrid bitter melon seeds (*Momordica charantia* L.). This research was carried out in November 2023 – January 2024 on agricultural land in Antirogo, Summersart, Jember, East Java. This research used a Randomized Complete Block Design (RCBD) with three replications. The first factor is fruit thinning: 6 fruit per plant (B_1), 8 fruit per plant (B_2), 10 fruit per plant (B_3). Second factor: 20 DAP, 21 DAP, 22 DAP. Data were analyzed using Anova and further tested with 5% DMRT (Duncan Multiple Range Test) if the data show very significant results. The results of this research showed that thinning 6 pieces per plant (B_1) gave the best results with average 22,00 seeds per fruit and a germination capacity 89.39%. Fruit thinning with 10 fruits per plant (B_3) has a significant influence on the parameters of seed weight per plot (165,25 gr) and production per hectare (875,28 kg/Ha). Harvest age 22 DAP (U_3) has a real influence on parameters of weight 1000 grains (180,84 gr), germination capacity (89,22%), growth speed (25,35%) and growth simultaneity (51,33%). The interaction between fruit thinning treatment and determining harvest age had no significant influence on all observed parameters except germination capacity. The interaction of 6 fruit planting treatments and a harvest age of 22 DAP (B_1U_3) gave the best results on germination parameters with a value of 91.33%.*

Key Words : *Bitter Melon, Seed, Thinning Fruits, Harvest Age*