

Pemilihan Waktu Penyerbukan dan Umur Panen Terhadap Produksi dan Mutu Benih Melon Hibrida (*Cucumis melo* L.). *Selection of Pollination Time and Harvest Age on Production and Quality of Hybrid Melon Seed (*Cucumis melo* L.).* Supervised by : Ir. Mochamat Bintoro, MP. Agus Suparno, SP.

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ABSTRACT

*Melon (*Cucumis melo* L.) is a fruit plant belonging to the Cucurbitaceae family which has a high selling price. This treatment aims to determine the interaction between the selection of pollination time and harvest age on the production and quality of melon seeds (*Cucumis melo* L.). This research was conducted in November-January 2022 on the land of PT. Tunas Agro Persada , Jl. Jatirejo - Suruh, Banggirejo, Suruh, Suruh District, Semarang Regency, Central Java. The research used factorial Randomize Complete Blog Design (RCBD) with three replications. The first factor is the selection of pollination time with levels at 07.00-08.00 WIB, 10.00-11.00 WIB, and 13.00-14.00 WIB. The second factor is Harvest Age with levels of 64 DAP, 69 DAP and 74 DAP. The data will be analyzed using analysis of variance and continued with DMRT level of 5% and 1% (Duncan Multiple Range Test). The results showed that the pollination timing treatment at 07.00-08.00 (W_1) had a very significant effect on the parameters of the percentage of finished fruit (44.72%), seed weight per plant, 1000 grain weight, seed production per hectare, germination, growth speed, and had a significant effect on parameters of seed weight per fruit. The treatment of harvest age at 74 days after planting (P_3) had a very significant effect on the parameters of seed weight per fruit, seed weight per plant, and gave a significant effect on parameters of weight of 1000 grains, germination, while the parameters of the percentage of finished fruit, production per hectare, and growth speed had no significant effect. The interaction of pollination treatments at 07.00-08.00 and harvested at 74 days after planting gave a very significant effect on the parameters of seed weight per plant (11.09 grams), weight of 1000 grains (25.20 grams), production per hectare (101.33 kg), growth speed (21.84), and gave a significant effect on the parameters of seed weight per fruit (6.82 grams), germination (92.70%), while the percentage of finished fruit parameters did not give a significant effect.*

Key words: *Melon, Seed Production, Seed Quality, Selection of Pollination Time, Harvest Age*