

Pengaruh Waktu Penyerbukan dan Proporsi Bunga Jantan terhadap Produksi Benih Mentimun (*Cucumis sativus* L.) Hibrida. (*Effect of Pollination Time and Proportion of Male Flowers on Seed Production of Cucumber (*Cucumis sativus* L.) Hybrid.*; Netty Ermawati, SP,P.hD

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ABSTRACT

*Cucumber is a vegetable that has many benefits and is in great demand by people in Indonesia. This study aims to determine the interaction of treatment time of pollination and the proportion of male flowers on the seeds production and quality of hybrid cucumber (*Cucumis sativus* L.). This research conducted from August – October 2021 in the Research and Development (RD) 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 the time of pollination at 06.00-07.00 WIB, 07.00-08.00 WIB, and 08.00-09.00 WIB. The second factor is the proportion of male flowers 1 male: 1 female, 1 male: 2 female, and 1 male: 3 female. The data will be analyzed using analysis of variance and continued with DMRT level 1% (Duncan Multiple Range Test). The results showed that the pollination time treatment at W1 level (06.00-07.00 WIB) gave the best results on the parameters of plant fruit weight (267.24 g), planting seed weight (2.39 g), weight of 100 grains (2.34 g). , percentage of finished fruit (36.81%), and seed production per hectare (74,358.22 kg). The treatment of the proportion of male flowers at level P0 (1 male: 1 female) gave the best results on the parameters of planting seed weight (2.26 g), weight of 100 grains (2.27 g), percentage of finished fruit (34.40%), and production seeds per hectare (70,358.1 kg).*

Keywords: *Cucumber, Seed Production, Pollination Time, Proportion of Male Flowers*