

Aplikasi Waktu Penyerbukan dan Waktu Panen Bunga Jantan terhadap Produksi dan Mutu Benih Semangka Hibrida (*Citrullus lanatus* Thunberg.).
The Effect of Pollination and Harvesting Male Flower Time on Production and Quality Of Hibryd Watermelon Seed (Citrullus lanatus Thunberg.). **Advisor: Ir. Hari Prasetyo, MP and Nanak Hariyanto, SP**

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ABSTRACT

Triploid watermelon seeds are produced from the crossing between watermelon diploid as males and tetraploid watermelons as females. The success of triploid seed formation is influenced by the success of pollination determined by pollen viability and peptic receptivity when pollination. The study aimed to determine the optimal time of pollination and harvesting male flower for increasing yield and seed quality of hybrid watermelon. This research was conducted from July until November 2019 in Seputih land, Mayang District, Jember and PT East West Seed Indoensia using randomized complete block design with a factorial arrangement. First factor was pollination time at 06.00 – 08.00 WIB (P1), 08.00 – 10.00 WIB (P2), and 10.00 – 12.00 WIB (P3). The second factor was harvesting male flower from pre-anthesis (B1) and Anthesis (B2). The result showed that time pollination had significant effect on fruit weight, fruit diameter, number of seed per plant, number of seed per plant, weight of seed per plant, seed production per hektare (grain), seed production per hectare (kg) and the succes of pollination. Harvesting male flower time had no significant effect on all the parameters. The interaction between pollination and harvesting male flower time showed significant effect on the succes of pollination.

Keywords: *Pollination time, Harvesting male flowers time, seedless watermelon, Production and Seed Quality*