

**Uji Ketepatan Waktu Defoliasi dan Aplikasi Penambahan Unsur Nitrogen terhadap Produksi dan Mutu Benih Tetua Jantan Jagung Manis (*Zea mays saccharata* Sturt)** (*The Accuracy Test on the Time of Defoliation and Nitrogen Adding Application toward Production and Quality Male Parent of Sweet Corn Seed (Zea mays saccharata Sturt)*) Supervisor: Ir. Sri Rahayu, MP. and Oktavianus Wawan D. S., SP.

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### **ABSTRACT**

*One of effort to fulfill national sweet corn demand independently is by manipulating the environment. This study aims to determine the effect of the time of defoliation and the time of nitrogen adding application toward production and quality of sweet corn male parent. The research was conducted on the Research and Development land of PT. Wira Agro Nusantara Sejahtera Kediri from October 2020 until February 2021. The research used factorial Randomized Complete Block Design (RCBD) method with 3 replications. The data will be analyzed using annova and continued with DMRT level of 5%. The first factor is the time of defoliation 68 days after planting, 75 days after planting and 82 days after planting. The second factor is the time of nitrogen application of 4 and 6 weeks after planting, 6 and 8 weeks after planting then 8 and 10 weeks after planting. The result showed that the time of defoliation and nitrogen application gave the significant effect for almost all parameters. The interaction between time of defoliation 68 days after planting and nitrogen application on 6 and 8 weeks after planting has significant effect on the parameters of seeds production per hectare 3,42 ton/ha and weight of 100 grains 12,47 gram.*

**Key word:** *sweet corn, time of defoliation and time of nitrogen application*