

Pengaruh Defoliiasi Daun dan Waktu Detasseling Terhadap Produksi dan Mutu Benih Jagung Manis Hibirda (*Zea mays saccharata* Sturt) (Effect of Leaf Defoliation and Detachment Time on Seed Production and Quality of Hybrid Sweet Corn (*Zea mays saccharata* Sturt)) Supervisor : Dwi Rahmawati S.P M.P

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ABSTRACT

*One of the efforts to increase the production and quality of sweet corn seeds can be done with leaf defoliation treatment and detachment time. This research was conducted to determine the effect of leaf defoliation treatment and detachment time on increased production and quality of hybrid sweet corn seeds (*Zea mays saccharata* Sturt). This experiment was carried out in August - December 2022 on Jl. Ahmad Yani - village of Wringintelu-kec. Puger - kab. Jember. The experimental design used was a factorial Randomized Block Design (RBD) which consisted of two factors and was repeated 3 times. The first factor is leaf defoliation (D), which consists of: without leaf defoliation (D1), Defoliation of 2 leaves (D2), and Defoliation of 4 leaves (D3). The second factor is the detachment time (W), which consists of: 48 HST (W1), 50 HST (W2), dan 52 HST (W3). The results obtained were then analyzed using the ANOVA F test analysis (Analysis of Variance) then carried out a follow-up test DMRT test level of 5% if the treatment shows a significant difference. The results showed that the treatmentdefoliiasi leaves (D) had significantly different (*) effects on the parameters of seed number, seed production per ear and seed growth speed, significantly different (**) on the parameters of ear weight and ear length. While the time treatmentdetasseling (W) had a highly significant (**) different effect on the parameters of cob weight, number of seeds and seed production per hectare. Multiple treatment interactionsdefoliiasi leaves and timedetasseling gave significantly different (*) effect on cob length, germination and seed growth speed parameters, very significantly different (**) on cob weight parameter.*

Keywords : Hybrid Sweet Corn, Defoliiasi leaves, time detasseling, Seed production

Pengaruh Defoliiasi Daun dan Waktu Detasseling Terhadap Produksi dan Mutu Benih Jagung Manis Hibrida (*Zea mays saccharata* Sturt) Dosen Pembimbing : Dwi Rahmawati S.P M.P

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ABSTRAK

Salah satu upaya dalam meningkatkan produksi dan mutu benih jagung manis dapat dilakukan dengan perlakuan *defoliiasi* daun dan waktu *detasseling*. Penelitian ini dilaksanakan untuk mengetahui pengaruh perlakuan Defoliiasi daun dan waktu detasseling terhadap peningkatan produksi dan mutu benih jagung manis hibrida (*Zea mays saccharata* Sturt). percobaan ini dilaksanakan pada bulan Agustus - Desember 2022 di Jl. Ahmad Yani - desa Wringintelu-kec. Puger - kab. Jember. Rancangan percobaan yang digunakan adalah Rancangan Acak Kelompok (RAK) faktorial yang terdiri dari dua faktor dan diulang sebanyak 3 kali. Faktor pertama adalah Defoliiasi daun (D), yang terdiri dari: tanpa Defoliiasi daun (D₁), Defoliiasi 2 helai daun (D₂), dan Defoliiasi 4 helai daun (D₃). Faktor kedua adalah waktu Detasseling (W), yang terdiri dari: 48 HST (W₁), 50 HST (W₂), dan 52 HST (W₃). Hasil yang diperoleh kemudian dianalisa menggunakan analisis Uji F ANOVA (*Analysis of Variance*) kemudian dilakukan uji lanjut Uji DMRT taraf 5% apabila perlakuan menunjukkan perbedaan yang nyata. Hasil penelitian menunjukkan bahwa perlakuan Defoliiasi daun (D) memberikan pengaruh berbeda nyata (*) terhadap parameter jumlah benih, produksi benih per tongkol dan kecepatan tumbuh benih, berbeda sangat nyata (**) terhadap parameter berat tongkol dan panjang tongkol. Sedangkan perlakuan waktu detasseling (W) memberikan pengaruh berbeda sangat nyata (**) terhadap parameter berat tongkol, jumlah benih dan produksi benih per hektar. Interaksi perlakuan beberapa Defoliiasi daun dan waktu detasseling memberikan pengaruh berbeda nyata (*) terhadap parameter panjang tongkol, daya berkecambah dan kecepatan tumbuh benih, berbeda sangat nyata (**) terhadap parameter berat tongkol.

Keywords : Jagung manis hibrida, Defoliiasi daun, waktu detasseling, Produksi benih