

Pengaruh Dosis Pupuk Kalium dan Pupuk Organik Cair Terhadap Persentase Serangan Penyakit Bulai dan Potensi Hasil Benih Jagung Manis (*Zea mays saccharata* L.) Hibrida. (*The Dose Effect of Potassium Fertilizer and Liquid Organic Fertilizer to The Percentage of Downey Mildew Attack and Hybrid Sweet Corn Seed yield potential (Zea mays Saccharata L.). Supervisor Dr. Ir. Suharjono, MP. and Dwi Kusma Hadiyanto, SP.*

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ABSTRACT

*Downey Mildew is an important disease in corn plantation, the disease attacks the plantation in young phase until 100% and causes significant loss for farmers. the purpose of this study is to get a recommendation for an appropriate dose of potassium fertilizer and organic liquid fertilizer in suppressing the percentage of downey mildew attack and increase the production of hybrid sweet corn (*Zea mays Saccharata* L.). This study used factorial randomized completely block design in order of potassium fertilizer (K) consist of 3 stages: K0 (0 gr/plant), K2 (3 gr/plant), K3 (6 gr/plant) and the second factor is in order of organic liquid fertilizer (P) consist of 3 stages: P0 (0 ml/liter), P1 (4ml/liter), P2 (8ml/liter) each treatment is replicated 3 times. The result was showed potassium treatment (K) gave significantly differen effects for the parameter of plant height k₂ with an avarage of 179.0 cm, weight of cobs without husk per plantation K₂ with an avarage 298.5 g, cob lenght K₂ with an avarage 21.3 cm, weight 1000 grains K₂ with an avarage 157.6 gr, and potential harvest per hectare K₂ with an avarage 15.3 ton. Gave significant effect for parameter leaf width K₂ with an avarage 9.5 cm and harvest cobs K₂ with an avarage 1.8. The treatment of liquid organic fertilizer (P) also gave significantly differen effects for parameter of harvest cobs P₂ with an avarage 1.9. Gave significant effect for parameter weight of cobs without husk per plantation P₂ with an avarage 293.4 gr, cob lenght P₂ with an avarage 21.4 cm and potential harvest per hectare P₂ with an avarage 15 ton. Together, the two treatments gave significantly differen effects for the parameter of number of seeds per cob K₂P₂ with an avarage 385.5 seed, and gave significant effect for parameter except the percentage of downy mildew attack K₂P₂ with an avarage 55.2%.*

Key words: *Corn, Fertilizer, Downey Mildew*