

**Pengaruh Kadar Air Benih Dan Bahan Kemasan Terhadap Viabilitas Benih Jagung Manis Hibrida.** *The Effect of Seed's Moisture content and Packaging Material on the Viability of Hybrid Sweet Corn Seed (Zea mays Var Saccharatas Sturt).* Advisor: Dr. Ir. Suharjono. MP

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### **ABSTRACT**

*The sweet corn consumption increase gradually along with the population growth and public consumption pattern (Syukur and Aziz, 2013). Many local farmers produce sweet corn seed but there is a problem in the storage system. Therefore, an innovation on seed packaging technique to maintain the seed quality. The objectives of this research are determining the optimum moisture content, determining the proper packaging technique, determining the interaction of moisture content treatment and seed packaging in the storage process on the viability of hybrid sweetcorn seed. This research is conducted for 2 moth, started from October until December 2017 in the storage room which has a room temperature in Krajan Selatan, Singojuruh Village, Singojuruh Subdistrict, Banyuwangi. While the seed quality test was conducted in the laboratory of UPT PSBTPH STAGAS V Jember. This research used Factorial Complete Randomized Design which consisted of the first factor is Moisture content (K) consisted of 4 levels of treatment: (K1): 12% seed moisture content, (K2): 11% seed moisture content, (K3): 10% seed moisture content, (K4): 9% seed moisture content. The second factor is packaging (P) which consisted of 3 levels of treatment: (P1) Plastic, (P2) Can, (P3) Aluminium foil. Each treatment was replicated three times that there were 36 experiment units, if there was a significant effect, the Duncan Multiple Range Test (DMRT) with error level of 5% shall be applied. The observed parameters included seed germination speed test, growth speed, growth simultaneity had no significant effect and had asignificant effect on the parameter of seed moisture content on factor (K). And there is no a significant interaction of the two treatment on all parameters.*

*Keywords: Moisture content, Packaging, Sweet corn seed*