

Pengaruh Macam Kemasan Terhadap Laju Kemunduran Benih Selama Penyimpanan pada Beberapa Varietas Kedelai (*Glycine max (L.) Merrill*) (*The Effect of Packaging Type on Seed Deterioration Rate During Storage of Several Soybean Varieties (*Glycine max (L.) Merrill*)*). Supervised by : Ir. Sri Rahayu, MP and M. Suhelmi Faruq, SP

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ABSTRACT

Seed storage aims to maintain the viability of seed during storage. One of obstacles that will occur is deterioration rate comes fast and storage period will short. This research aims to determine the proper packaging type to suppress the seed deterioration rate of several soybean varieties. This research was conducted in October 2018 to February 2019 at UPT PSB-TPH District IV Malang. It was applied Completely Randomized Design (CRD) with 2 factors and 3 replications .the first factor was packaging type consisted 3 levels, HDPE plastic (K_1), plastic sack (K_2) and aluminum foil (K_3). The second factor was varieties consisted 3 levels, Devon 1(V_1), Dega 1 (V_2) and Grobogan (V_3). The data was analyzed by f test (ANOVA) and followed by BNT 5% and DMRT 5%. The result of this research shows that aluminum foil packaging (K_3) is significant on seed viability on 3rd month (83,00%). The interaction between aluminum foil packaging and Devon 1 Varieties (K_3V_1) is significant on water content in 3rd month (9,57%). The treatment aluminum foil packaging and HDPE plastic can maintain the seed viability more than 80% during storage period of 3 months.

Key words : *Deterioration Rate, Packaging, Soybean, Varieties*