Pengaruh Waktu dan Suhu Pengeringan Terhadap Mutu Benih Jagung di CV. Surya Kencana Agrifarm. *(The Effect of Drying Time and Temperature on the Quality of Corn Seeds at CV. Surya Kencana Agrifarm). Supervised* by Ir. Dwi Rahmawati, SP., MP. IPM.

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ABSTRACT

One of the efforts to improve the quality of corn seeds is the drying method by using the right drying temperature and time. This study was conducted with the aim of knowing the effect of the interaction of drying temperature and drying time on the quality of corn seed seeds. The research was conducted from October to December 2023 and the research site was at CV Surya Kencana Agrifarm. This study used a factorial completely randomized design (CRD) consisting of 2 factors. Each factor consists of 3 levels of treatment. The first factor is drying temperature (S) with the method of using a flat bed dryer at 32°C (S1), 37°C (S2), 42°C (S3). The second factor is drying time (W) with the method of using a flat bed dryer (W1) 7 days, (W2) 8 days, (W3) 9 days. The data obtained were then tested using ANOVA and DMRT 5%. Drying temperature had a very significant effect on moisture content of 11.75%, germination rate of 84.45%, growth uniformity of 98.11%, 1000-grain weight of 284.48 grams, and growth speed of 21.97%. Drying time gave a very significant effect on moisture content of 13.31%, 1000-grain weight of 274.49 grams, and a significant effect on germination rate of 81.67%. The interaction of drying temperature and drying time significantly affected the 1000-grain weight of 333.05 grams, significantly affected the parameters of seed moisture content of 10.86, germination rate of 92.33%, and 98.67% germination rate.

Keywords*: Drying Temperature, Drying Time, Maize*