

ABSTRACT

COMPARISON OF DRYING CORN WITH TARPAULIN, DRYING FLOOR, AND WINNOWING ON GERMINATION

By

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Drying corn seed is one process handling activities in order to obtain a good quality. In general, farmers are using dryers come with a tarp, drying floors, and winnowing, it is necessary to test for comparing grow sprouts. The purpose of this study is determine the length of drying, drying rate of maize, and the germinator. Methodo drying research using tarpaulin mat, drying floors, and winnowing with a thickness of 1 cm and 3 cm, and the observed water content of up to 11%-12%. The results showed that the drying time with tarpaulin mat, drying floor, winnowing with a thickness, 14 hours and 30 hours; 12 hours and 28 hours; 20 hours and 36 hours. Corn drying rate is 0.69 %/hours and 0.31 %/hours; 0.82 %/hours and 0.33 %/hours; 0.48 %/hours and 0.26 %/hours. The thinner the material pile, the greater the rate of drying. Germination mat tarpaulins, floor drying and winnowing with a thickness of 1 cm, 3 cm which is 85% - 88%. Germination of corn seed drying results using tarpaulin mat, drying floors, and winnowing it meets SNI above 80%.

Keywords: drying corn, drying time, drying rate, germination