

Uji Daya Hasil Dan Mutu Benih Jagung (*Zea mays* L.) Hibrida Galur CM Terhadap Paket Pupuk Dan Jarak Tanam. *Test Of Yield And Quality Of (Zea mays L.) Hybrid Corn Seed Line CM Against Fertilizer Packages And Planting Distance.* Supervised by : Ir. M. Bintoro, MP.

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ABSTRACT

Corn is the second most important food ingredient after rice. There needs to be an effort to increase the productivity of corn plants with the right cultivation technology. The purpose of this study was to obtain the correct dose of fertilizer and spacing from PT. Syngenta Seed Indonesia. This research was conducted at the Jember State Polytechnic from September to December 2022. The experimental design used was a DMRT (Duncan Multiple Range Test) with 2 treatment factors, each of which was repeated 4 times. The first factor is the dose of fertilizer consisting of P1 (Urea 450 kg/ha, Phonska 500 kg/ha, KCl 50 kg/ha), P3 (Urea 475.5 kg/ha, Phonska 525 kg/ha, KCl 52.5 kg/ha), P3 (Urea 495 kg/ha, Phonska 550 kg/ha, KCl 55 kg/ha). the second factor is the spacing consisting of J1 (65 cm x 18 cm) and J2 (65 cm x 20 cm). research data were analyzed using ANOVA (analysis of variance). If there is a significant difference in effect, then proceed with using the DMRT (Duncan Multiple Range Test) at the 5% level. The results showed that the fertilizer package treatment had a very significant effect on the parameters of plant height of 120.15 cm, seed weight per ear of 79.53 gr, and cob length of 14.66 cm. The fertilizer package had a significant effect on the parameter number of leaves 9.10, seed weight per plant 92.28 gr, cob diameter 3.66 mm, weight of 100 seeds 31.19 gr.

Keywords : Corn, Fertilizer, Plant spacing, Hybrid