Pengaruh Jarak Tanam dan Waktu Pemupukan NPK terhadap Produksi dan Mutu Benih Jagung Pulut (*Zea mays ceratina* L.) (*Effect of Plant Spacing and NPK Fertilization Time on Production and Quality of Pulut Corn (Zea mays ceratina L.) Seed*) *Supervisor* : Ir. Hari Prasetyo,MP

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ABSTRACT

Pulut corn is corn with a high amylopectin content up to 90% - 99% so that it is increasingly in demand by the people of Indonesia. Efforts to produce high production and quality, by adjusting the spacing and timing of NPK fertilization. The purpose of this study was to determine the effectiveness of planting distance and time of NPK fertilization on the production of pulut corn seeds. This research was carried out in the Research and Development (RD2) area of PT. Wira Agro Nusantara Sejahtera starting October 2021 – December 2022. Using a factorial randomized completely block design (RCBD) with 3 replications. The first factor is the spacing of J1: 15 cm × 70 cm, J2: 25 cm × 70 cm, J3: 35 cm × 70 cm. The second factor was the time of NPK fertilization W1 : 14 DAP, 28 DAP, 42 DAP, W2: 19 DAP, 33 DAP, 47 DAP, W3: 24 DAP, 38 DAP, 52 DAP. The data were analyzed using the F test (ANOVA) and continued with the 5% BNT test. The results showed that the spacing (J1) gave the best results on the parameters of seed production per hectare with a yield of 2.27 tons/ha, while the spacing (J3) gave the best results on the parameters of seed weight per cob weighing 29.92 g, seed germination. by 93%, and the weight of 1000 grains weighing 121.6 grams. The NPK fertilization time with treatment (W1) gave the best value for the parameters of seed weight per cob weighing 31.07 g, seed production per hectare weighing 1.91 tons/Ha, and weight of 1000 grains weighing 119.07 gr. The interaction treatment of planting distance and time of NPK fertilization gave no significant effect on all parameters.

Keywords: Corn pulut, spacing, NPK fertilization time