

Application of Growmore 6-30-30 Fertilizer and Leaf Pruning on Production and Quality of Corn Seed (*Zea Mays. L*).

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ABSTRACT

The high demand for national maize is an opportunity for socio-economic aspects, one way to fulfill it is by using quality seeds and optimal plant care they are by trimming leaves and fertilizing. The research aims to treatment observe the influence growmore fertilizer 6-30-30 and leaf pruning and interaction of treatment for both the production and quality seeds. The research was conducted from February 2020 to June 2020, at the Innovation Land and Seed Production Technology Laboratory, State Polytechnic of Jember. This research used a factorial randomized block design (RBD) with 2 treatments they are leaf pruning and Growmore Fertilizer 6-30-30, so that there are 12 treatment combinations, and replicated 3 times. The treatment combinations are MOP0, MOP1, MOP2, MOP3, MIP0, MIP1, MIP2, MIP3, M3P0, M3P1, M3P2, and M3P3, so that there are 36 experimental units. The data will be analyzed using variance (ANOVA) and DMRT level of 5%. The result showed that the treatment of pruning leaves has a significant effect on the parameters of 60% flowering age, cob weight, wet seed weight and wet cob production per hectare. Growmore 6-30-30 fertilizer treatment had no significant effect on all observed parameters. The interaction effect between Leaf Pruning and Growmore fertilizer 6-30-30 is the parameters of wet seed weight, dry seed weight, and seed production per hectare.

Key words: Corn, Leaf Pruning, Growmore 6-30-30 Fertilizer