

***Synergy Plant Meeting And Transport Leaf Under The Corn Production Of  
Corn (Zea Mays L.)***

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***ABSTRACT***

*Corn is one of the important food crops have been demand continues to increase with the development of the food industry. Efforts to increase corn productivity by using tight spacing and pruning the lower leaves of the corn plant. The purpose of this research is to identify the effect of density spacing and lower leaf pruning on corn production. The research was conducted from November 2019 to February 2020 in Seputih Village, Mayang District, Jember Regency. The research was arranged using a factorial randomized block design (RBD) with 2 factors, that is dense spacing and pruning the lower leaves, so there is 16 treatment combinations and 3 replication. The dense spacing consists of 4 levels, that is 70 cm x 30 cm, 80 cm x 30 cm x 50 cm, 90 cm x 20 cm x 50 cm and 90 cm x 15 cm x 50 cm. While pruning the lower leaves consists of 4 levels, that is without pruning, pruning with remain 1 leave under the cob, pruning with remain 2 leave under the cob, pruning with remain 3 leave under the cob. Data was analyzed using ANOVA if the varians showed normal and homogeny an then tested with DMRT 5%. The results showed that there was an interaction between the two treatments on the variables, of sample wet weight per sample, wet weight per plot, dry weight per sample, dry shelled weight per sample and shelled weight per plot. In the dense spacing treatment gave the best effect on the variable ear length, wet weight of the sample ear, wet weight every plot, dry weight of the sample, dry weight of the sample and dry weight of the every plot, but had a bad effect on the variables of plant height, corn cobs diameter and weight 100 seeds. While the treatment without of pruning the lower leaves gave the best effect on the variable dry weight of corn cobs every plot and weight of shelled every plot.*

*Keywords: corn, dense spacing, lower leaf pruning*