

Response Coconut Water and MSG (*Monosodium Glutamate*) on Growth and Production of Maize (*Zea mays*, L.) Bisi-2 Variety. Supervised by : Ir. Djenal, MP and Ir. Tri Rini Kusparwanti, MP.

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ABSTRACT

*This study aims to determine the Growth and Production of maize (*Zea mays* L.) varieties Bisi-2 with the addition of Coconut Water and MSG (*Monosodium Glutamat*) On Various concentrations. This study was conducted over four months from October 2015 to February 2016. All the activities carried out in field trials Polytechnic of Jember, District Sumbersari, Jember. This study uses a randomized complete block design (RAK) factorial with two factor of 9 treatments and 3 repetitions. Factor K consists of three levels ie a concentration of 100 ml / l, 150 ml / l, 200 ml / l. Factor V consists of three levels ie concentrations of 10 ml / l, 15 ml / l, 20 ml / l with a combination treatment of K1V1, K1V2, K1V3, K2V1, K2V2, K2V3, K3V1, K3V2, and K3V3. Data was analyzed using ANOVA and then tested further by using Duncan Multiple level of 1%. The results of this study indicate that treatment Coconut Water Award gives highly significant effect on plant height hst age 42 and showed that administration of MSG Air no significant effect on any parameter. Concentration tends to the treatment of coconut water is 100 ml / l.*

Keywords: *Coconut Water dan MSG (*Monosodium Glutamat*), Corn Hybrids, Concentration, Varieties Bisi-2*