

The Application of Liquid Organic Fertilizer D.I Grow to Increase Production of Varieties Corn Hybrid and Composite. Supervised: Ir. Muqwin Asyim RA, MP and Ir. Djenal, MP

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ABSTRACT

The research was conducted in State Polytechnic of Jember field from October 2016-January 2017. Research aims to determine the influence of concentration liquid organic fertilizer D.I Grow and the exact concentration to production of corn varieties hybrid and composite. The research design used factorial Randomized Block Design (RBD) with 2 factors and 4 repetitions. First factors were concentration liquid organic fertilizer D.I Grow with 4 level include: 0 ml/L, 4 ml/L, 8 ml/L, 12 ml/L. Second factor is varieties with 2 level include: hybrid varieties and composite varieties. The result showed that in treatment liquid organic fertilizer D.I Grow gave no significant effect on all variable of growth and production of corn crop hybrid varieties and composite varieties. While treatment of corn varieties gave significant very different effect on the height variable plant ages of 40 DAT, long of cob, heavy wet cob without husk/plot, dry cob weight/plot, dry corn weight/plot and dry corn weight/planting hole. The effect is significant different on the variable of heavy wet cob without husk/planting hole, dry cob weight/planting hole, weight of 1000 seeds and non significant effect on the height variable plant ages of 20 DAT, plant height age of 60 DAT and diameter of cob. Interaction of organic liquid fertilizer D.I Grow to hybrid corn and composite varieties has no significant effect on all variable.

Password: liquid organic fertilizer, corn varieties, the production of a corn plant