Pengaruh Pemangkasan Pucuk Dan Penambahan Pupuk Daun KNO_3 Terhadap Produksi Benih Melon (*Cucumis melo* L.) Sistem Hidroponik (*The Effect of Bud Pruning and Administration of KNO_3 Leaf Fertilizer to The Hydroponic Melon (Cucumis melo* L.*) Seed Production).* Supervised by: Ir. M. Bintoro, MP and Taufik, SP

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ABSTRACT

This study aimed to determine the effect of bud pruning and administration of KNO_3 leaf fertilizer to the melon (Cucumis melo L.) seed production. It was conducted in Greenhouse of PT. Benih Citra Asia for 3 months (September-December) using Factorial Randomized Block Design with 2 factors and 4 replications. The first factor were T0 (without bud pruning) and T1 (bud pruning). The second factor was the administration of KNO_3 leaf fertilizer with 3 levels of concentrations. There were P0 (0 gr/l), P1 (2 gr/l) and P2 (4 gr/l). The parameters were weight and diameter of fruit, weight of seed per plant, and weight of 1000 seeds. The data were analyzed by the F Test formula (ANOVA). The result showed that bud pruning (T1) gave the optimum effect to the weight parameter of 1000 seeds, which was 23.01cm. The administration of KNO_3 leaf fertilizer with a concentration of 4 gr/l (P2) gave the optimum effect to the weight of fruit parameters, as much as 646.75 gr, fruit diameter of 11.45 cm and 3.12 gr for weight of seed per plant. The interaction between bud pruning and the administration of KNO_3 leaf fertilizer with a concentration of 4 gr/l (T1P2) gave the optimum effect to the weight parameters of 1000 seeds as much as 24.78 gr.

Key words : *Bud Pruning, KNO_3 Leaf Fertilizer, Melon, Seed Production.*