

***The Effect of Chicken Manure and NPK Fertilizer Doses on The Production of Sweet Potato Cuttings (Ipomoea batatas L.) Antin-1 Variety. Supervised by: Maria Azizah, S.P., M.Si.***

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### **ABSTRACT**

*Unstable or even declining sweet potato production can be done by planting using cuttings from quality varieties and fertilization to accelerate seed production. This study aims to determine the effect of chicken manure and NPK fertilizer doses on the production of sweet potato cuttings. The study was conducted from September to November 2024 in rice fields in Antirogo Village, Summersari District, Jember Regency, East Java. The research design used in this study was a Factorial Randomized Block Design. Factor 1, the chicken manure dose consisted of 3 levels: 5 tons/ha, 10 tons/ha, and 15 tons/ha. Factor 2, the NPK fertilizer dose consisted of 3 levels: 100 kg/ha, 150 kg/ha, and 200 kg/ha. The data obtained were analyzed using ANOVA and DMRT at a 5% level. The interaction between chicken manure and NPK fertilizer treatments significantly affected the secondary branch length parameter, but had no significant effect on other parameters. NPK fertilizer treatments significantly affected the primary branch length and the number of stem cuttings. The chicken manure treatment showed a significant effect on the number of primary branches and the average length of internodes. The chicken manure dose treatment had a significant effect on the number of primary branches and a very significant effect on the average length of sweet potato internodes. The NPK fertilizer dose treatment had a significant effect on the primary branch length parameter with the best dose of 150 kg/ha. The interaction of chicken manure and NPK fertilizer had a significant effect on the secondary branch length parameter with the best combination being A3B3 (15 tons/ha + NPK 200 kg/ha).*

**Keywords:** *Vegetative seeds, NPK fertilizer, chicken manure, sweet potato*