

Pengaruh Asal Setek dan Konsentrasi Pupuk Daun Gandasil D dan Growmore terhadap Produksi Benih Vegetatif Ubi Jalar (*Ipomoea batatas* L.) Varietas Antin 3 di Dataran Rendah Jember. (*The Influence of the Origin of Cuttings and the Concentration of Gandasil D and Growmore Foliar Fertilizers on the Production of Vegetative Seeds of Sweet Potato (*Ipomoea batatas* L.) Antin 3 Varieties in the Lowlands of Jember*). Supervised by Leli Kurniasari, S.P., M.Si.

Naufal Maulana Nibras

Study Program of Seed Production Technique

Department of Agriculture Production

Program Studi Teknik Produksi Benih

Jurusan Produksi Pertanian

ABSTRACT

Sweet potatoes are a type of vine that produces tubers and has excellent nutritional content. The development of production of various tubers over the last five years (2018-2022) shows fluctuations and tends to decline. In 2021-2022, production figures again show a decline with an average decline of 2.09% over 5 years. So, to meet this need, every year Indonesia tries to increase sweet potato production. One effort to increase the production of vegetative sweet potato seeds is by planting from cuttings and applying concentrations of Gandasil D and Growmore foliar fertilizers. The research was carried out on Antirogo land, Sumbersari sub-district, Jember Regency, East Java from October to December 2023. This research used the factorial Randomized Block Design (RBD) method with three replications. Where the data was analyzed using ANOVA and continued with the DMRT test at 5% level and 1%. The first factor is the influence of the origin of the cuttings L1 (shoot cuttings), L2 (stem cuttings). The second factor is various foliar fertilizer concentrations. P1 = Gandasil D dose 3 g/l, P2 = Gandasil D dose 4 g/l, P3 = Growmore dose 3 g/l, P4 = Growmore dose 4 g/l. In this study, the treatment of origin of cuttings had a real influence on several parameters such as length of primary and secondary branches, number of nodes, production of planting cuttings, and number of leaves aged 14 DAP; 28 HST; 42 HST; 56 HST. Meanwhile, the concentration treatment of Gandasil D and Growmore foliar fertilizers had a real influence on the parameters of number of primary branches, number of secondary branches and length of the main stem. However, the combination of treatments between the origin of cuttings and treatments with various foliar fertilizer concentrations had no significant effect on all parameters.

Keywords: *Sweet Potato, Cuttings, Foliar Fertilizer*