Provision of NPK Fertilizer Through Soil and Leaf Fertilizer on Growth and Seed Production of Mung Beans (Vigna Radiata L.). *Advisory Lecturer Ir. Hari Prasetyo, M.P. PKL Advisor Joko Restuono, S.P.*

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ABSTRACT

Mung bean (Vigna Radiata L.) is a crop that has the potential to be developed because of its high economic value and provides a large market opportunity and has occupied the third place after soybeans and peanuts. This study aims to determine the effect of NPK fertilizer and foliar fertilizer on the growth and production of mung bean (Vigna Radianta L.). This research was carried out from October 2020 to January 2021 at IP2TP Genteng Banyuwangi. This study used a factorial randomized block design (RAK) which was repeated 3 times. The first factor was the application of NPK fertilizer with 4 levels of treatment including N0 = Control, N1 = 350 kg/ha, N2 = 500 kg/ha, N3 = 650 kg/ha. The second factor was foliar fertilizer with 4 levels of treatment including D0 = Control, D1 = 1.5 gr/l, D2 = 3 gr/l, D3 = 4.5 gr/l. The data obtained were analyzed using ANOVA (Analysis of Variance) and further tested using DMRT (Duncan Multiple Range Test) at 5% and 1% levels. The results showed that the treatment of NPK fertilizer at a dose of 500 kg/ha (N2) gave a very significantly different effect on the parameters of plant height (36.60cm), number of pods (23.15 pieces), weight of 100 seeds (5.63 grams). and production per hectare (1082 kg). Leaf fertilizer treatment with a concentration of 3 g/l (D2) had a significantly different effect on the parameters of plant height (36.27 cm), number of pods (22.52 pieces) and at a concentration of 4.5 g/l (D3) gave a very significant effect. significantly different on the parameter number of branches (4.6 stems). The interaction effect of treatment with NPK fertilizer and foliar fertilizer had no significant effect on all parameters.

Keywords: Mung bean, NPK fertilizer, foliar fertilizer.