

**Pengaruh Konsentrasi dan Interval Penyemprotan Pupuk Daun Gandasil B terhadap Produksi dan Kualitas Benih Kacang Hijau (*Vigna radiata* L)**  
*(Effect of Concentration and Interval of Spraying of Gandasil B Foliar fertilizer on Production and Quality of Mung Bean (*Vigna radiata* L) seed)* Supervisor: Dr. Ir. Rahmat Ali Syaban, M.Si

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**ABSTRACT**

*One effort to improve the quality of superior seeds is to optimize cultivation techniques using foliar fertilizers. This study aims to determine the effect of the concentration of Gandasil B fertilizer and spraying intervals on the production and quality of mung bean seeds. This research was conducted in September 2022 - December 2022 at the Jember State Polytechnic Jl. Koptu Berlian, Antirogo, Kec. Sumpalsari, Jember Regency, East Java, East Java. The experimental design used was a factorial randomized block design (RBD) with 2 treatment factors and 3 replications. The first factor was the treatment of several concentrations of foliar fertilizer with 3 levels, namely 6 grams/liter ( $P_0$ ), 8 grams/liter ( $P_1$ ) and 10 grams/liter ( $P_2$ ). The second factor is the spraying interval which consists of 5 days ( $I_1$ ), 10 days ( $I_2$ ) and 15 days ( $I_3$ ). The data will be analyzed using ANOVA and continued DMRT test level of 5%. The results showed that the concentration of Gandasil B foliar fertilizer had a very significant effect on the number of pods per plant parameter with the highest average  $P_0$  (9,68 fruit), significantly different from the pod weight parameter with the highest average  $P_0$  (7,35 grams) and production parameters per hectare  $P_1$  (0,52 tons). The spraying interval treatment had a very significant effect on the number of pods per plant parameter with the best treatment  $I_3$  (9,57 fruit), significantly different effect on the pod weight parameter per plant with the highest average  $I_3$  (7,76 grams) and the production parameters per hectare with the highest average  $I_3$  (0,5 tons). The interaction of treatment concentrations and spraying intervals of Gandasil B foliar fertilizer had a very significant effect on the parameter of the amount of production per hectare with the best treatment  $P_1I_3$  (0,655 tons), then had a significantly different effect on the parameter of the number of pods per plant. with the highest  $P_1I_3$  average (10,67 fruit) and  $P_1I_1$  pod weight parameter per plant (8,42 gram).*

**Key word:** mung bean, foliar fertilizers, gandasil b