

Pengaruh Pemberian Asam Humat dan Pupuk SP-36 terhadap Produksi dan Kualitas Benih Kacang Hijau (*Vigna radiata* L) (Effect of Humic Acid and SP-36 Fertilizer on Production and Quality of Mung Bean Seed (*Vigna radiata* L)) Supervisor: Dr. Ir. Nantil Bambang Eko S,M.Si

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ABSTRACT

One of the efforts to increase mung bean productivity is fertilization using SP-36 and improving soil structure using humic acids. This research was conducted in September 2022 - November 2022 at the Jember State Polytechnic located at Jl. Mastrip, Krajan Timur, Sumbersari, Kec. Sumbersari, Jember Regency, East Java. This study used a randomized block design (RCBD) with 3x3 factorial analysis with 3 repetitions. The data will be analyzed using ANOVA (analysis of variance) and will be tested using the DMRT advanced test with a level of 5%. Treatment factor I was humic acid (H) consisting of 3 levels, namely: without humic acid (H^0), with humic acid 25 kg/Ha (H_1) and with humic acid 50 Kg/Ha. Treatment factor II was the dose of SP-26 (S) fertilizer consisting of 3 levels, namely 200 kg/Ha (S_1), 250 kg/Ha (S_2) and 300 kg/Ha (S_3). The results showed that the effect of humic acid and SP-36 fertilizer had an effect on several parameters. The interaction humic acid doses and SP-36 fertilizer doses had a very significant effect on the number of pods per plant with the best treatment H_0S_1 (20.81 pods), seed production per hectare H_1S_1 (8.75 quintals), seed weight per plant H_1S_1 (13.12 grams).

Key word: mung bean, SP-36, humic acid