Pengaruh Jenis POC dan Dosis Pupuk SP-36 Terhadap Produksi dan Mutu Benih Kacang Hijau (*Vigna radiata* L.). Dibimbing oleh Ir. M. Bintoro, M.P. (*Effect of liquid organic fertilizer Type and SP-36 Fertilizer Dosage on Production and Quality of Green Bean Seeds (Vigna radiata* L.*)). Supervisor* by Ir. M. Bintoro, M.P.

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ABSTRACT

Efforts to increase the production and quality of green bean seeds (Vigna radiata L.) can be done by treating liquid organic fertilizer types and doses of SP-36 fertilizer. This research was carried out in September-December 2023, on land in Tegal Gede Village, Sumbersari District, Jember Regency and the seed technology laboratory, Jember State Polytechnic. The experimental design used in this research was a factorial Randomized Block Design (RBD) which consisted of two factors and was repeated 3 times. The first factor is the type of liquid organic fertilizer treatment, consisting of Herbafarm liquid organic fertilizer (P1), POMI liquid organic fertilizer (P2), NASA liquid organic fertilizer (P3). The second factor is the dose of SP-36, consisting of 110 kg/ha (D1), 210 kg/ha (D2), 310 kg/ha (D3). The observation results were tested using the F test or ANOVA (Analysis of Variance). If the F test results showa significantly, a further DMRT test is carried out. The results showed that the interaction of NASA liquid organic fertilizer and SP-36 Fertilizer with a dose of 310 kg/ha (P3D3) had a very significantly on the number of productive branches with the best yield of 5.22 and the interaction of NASA liquid organic fertilizer and SP-36 fertilizer with a dose of 210 kg/ha (P3D2) showed a significantly on the number of pods per plant with the best yield of 29.17 pods.

Keywords: Mung beans, Liquid organic fertilizer, SP-36 dosage, Seed production