

Efisiensi Penggunaan Pupuk Kimia Dengan Penambahan Pupuk Organik Cair Terhadap Hasil Beberapa Genotipe Kedelai (*Glycine Max (L.) Merrill*). The Efficiency of Using Chemical Fertilizers with the Addition of Liquid Organic Fertilizers on the Yield of Several Genotypes of Soybean (*Glycine Max (L.) Merrill*). *Advisor Ir.Suwardi, MP. and : Dr. Ir. Nurul Sjamsijah.*

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ABSTRACT

The use of chemical fertilizers with the addition of liquid organic fertilizer to increase the genotype of soybean (*GlycineMax (L.) Merrill*). This research aims to determine the effect and efficiency of using chemical fertilizers and applying liquid organic fertilizers on some soybean genotypes on soybean yields. Using a Randomized Block Design (RBD) with 9 treatment combinations, which consisted of two factors between the other factors, the first factor had 3 levels, namely V_1 (genotype polije 3), V_2 (genotype polije 4), V_3 (genotype polije 5) and second factor using liquid organic fertilizer, namely P1 100% Chemical Fertilizer (2.25g Plants), P2 Chemical Fertilizer 50% (1.125g + POC 50% (25ml), and P3 Chemical Fertilizer 100% (2.25) + POC 100% (50 ml), and if there is a significant difference, it is carried out by using the Duncan's multiple range test (DMRT) 5%. The results of the study obtained variance in the parameters of plant height at harvest which were significantly different (*) in the use of liquid organic fertilizer in P3 treatment. 8.1 (a), P2 47.1 (b), and P1 42.44 (c) show that the effect of using liquid organic fertilizers on plant height, while on the parameters of flowering age, harvest age, number of branches, number of pods, planting 100 seeds, crop yield, yield per pot, and yield per hectare are non significant (NS) as well as on the use of chemical fertilizers and a combination of cumia and liquid organic fertilizers.

Keywords : Chemical Fertilizer, Liquid Organic Fertilizer, Soybean Genotype