

ABSTRAK

Mohammad Fajar Septian. 2024. Pengaruh Dosis Pupuk Organik Cair (POC) Urine Sapi Terhadap Pertumbuhan Dan Hasil Tanaman Stroberi (*Fragaria sp.*) Varietas Mencir. Dibawah bimbingan Efrin Firmansyah dan Esty Puri Utami.

Produktivitas tanaman stroberi dapat ditingkatkan dengan pemupukan. Namun, penggunaan pupuk kimia yang berlebihan berdampak pada rusaknya sifat fisika tanah yang ditandai kandungan bahan organik yang sangat rendah. Permasalahan tersebut dapat disiasati dengan penggunaan pupuk organik cair (POC) urine sapi. Tujuan penelitian ini adalah mengetahui respons pertumbuhan dan hasil tanaman stroberi (*Fragaria sp.*) terhadap aplikasi POC urine sapi dan mengetahui dosis POC yang efektif. Metode yang digunakan dalam penelitian ini adalah Rancangan Acak Kelompok dengan 7 taraf perlakuan dan 4 ulangan, lalu dilakukan uji lanjut DMRT 5%. Perlakuan yang diberikan yaitu, A = kontrol (tanpa POC urine sapi); B = kontrol (NPK); C = POC urine sapi 66,67 ml; D = POC urine sapi 133,33 ml; E = POC urine sapi 200 ml; F = POC urine sapi 266,66 ml; G = POC urine sapi 333,33 ml. Hasil penelitian menunjukkan bahwa pemberian berbagai dosis POC urine sapi berpengaruh nyata terhadap parameter jumlah bunga, bobot buah per tanaman, diameter buah, panjang buah, dan tingkat kemanisan buah. Perlakuan yang memberikan pengaruh terbaik yaitu POC urine sapi 333,33 ml.

Kata kunci: dosis, pupuk organik cair, stroberi, urine sapi

ABSTRACT

Mohammad Fajar Septian. 2024. Effect of Cow Urine Liquid Organic Fertilizer (POC) Dosage on the Growth and Yield of Strawberry Plants (*Fragaria sp.*) Mencir Variety. Supervised by Efrin Firmansyah and Esty Puri Utami.

Strawberry plant productivity can be increased by fertilizing. However, excessive use of chemical fertilizers has an impact on the damage to the physical properties of the soil which is characterized by very low organic matter content. This problem can be overcome by using cow urine liquid organic fertilizer (POC). The aim of this research was to determine the response of growth and yield of strawberry plants (*Fragaria sp.*) to the administration of cow urine POC and to determine the effective dose of POC. The method used in this research was a Randomized Block Design with 7 treatment levels and 4 replications, then a 5% DMRT follow-up test was carried out. The treatments given were, A = control (without cow urine POC); B = control (NPK); C = POC cow urine 66,67 ml; D = POC cow urine 133,33 ml; E = POC cow urine 200 ml; F = POC cow urine 266,66 ml; G = POC cow urine 333,33 ml. The results of the research showed that administering various doses of POC cow urine had a significant effect on the parameters of number of flowers, fruit weight per plant, fruit diameter, fruit length and fruit sweetness level. The treatment that gave the best effect was treatment G, namely cow urine POC 333,33 ml L⁻¹.

Keywords: dosage, liquid organic fertilizer, strawberries, cow urine