

ABSTRAK

PENGARUH DOSIS PORASI KOTORAN KAMBING DAN PUPIK NPK TERHADAP PERTUMBUHAN DAN HASIL TOMAT (*Lycopersicum esculentum* Mill)

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Pemupukan berimbang antara porasi kotoran kambing dan pupuk NPK Mutiara dapat memperkaya nutrisi tanaman dan memberikan hasil yang optimal. Penelitian ini bertujuan untuk mengetahui interaksi antara dosis porasi kotoran kambing dengan pupuk NPK Mutiara terhadap pertumbuhan dan hasil tanaman tomat. Penelitian ini dilaksanakan pada bulan Mei sampai dengan Agustus 2022, di Kebun percobaan Fakultas Pertanian Universitas Siliwangi, Kelurahan Mugasari, Kecamatan Tamansari, Kota Tasikmalaya dengan ketinggian 359 mdpl. Percobaan menggunakan rancangan acak kelompok (RAK) pola faktorial dan diulang sebanyak tiga kali. Faktor pertama adalah dosis porasi kotoran kambing 5 ton/ha, 10 ton/ha, dan 15 ton/ha dan faktor kedua adalah pupuk NPK Mutiara 500 kg/ha, 750 kg/ha dan 1.000 kg/ha. Hasil penelitian menunjukkan dosis porasi kotoran kambing berpengaruh nyata terhadap jumlah daun per tanaman dan hasil buah per petak dan dosis pupuk NPK Mutiara memberikan pengaruh nyata terhadap tinggi tanaman berumur 42 hari setelah tanam, jumlah buah per tanaman, dan hasil buah per petak di konversi ke hektar. Dosis porasi kotoran kambing 15 ton/ha dan pupuk NPK Mutiara 1.000 kg/ha memberikan pengaruh baik terhadap jumlah buah per tanaman dan hasil buah per petak.

Kata kunci: Porasi kotoran kambing, NPK Mutiara, Tomat

ABSTRACT

THE EFFECT OF FERTILIZER DOSE RESULT OF GOAT DUNG AND NPK FERTILIZATION ON THE GROWTH AND YELD OF TOMATO (*Lycopersicum esculentum* MILL).

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Balanced fertilization between organic fertilizer fermented goat manure and NPK Mutiara fertilizer can enrich plant nutrients and provide optimal results. This study aims to determine the interaction between the dose of organic fertilizer fermented goat manure with NPK Mutiara on the growth and yield of tomato plants. This research was conducted from May to August 2022, in the experimental garden of the Faculty of Agriculture, Siliwangi University, Mugasari, Tamansari, Tasikmalaya with an altitude of 359 meters above sea level. The experiment used a factorial randomized block design (RAK) and repeated three times. The first factor is the dose of organic fertilizer fermented goat manure 5 tons/ha, 10 tons/ha, and 15 tons/ha and the second factor is NPK Mutiara 500 kg/ha, 750 kg/ha and 1,000 kg/ha. The results showed that the dose of organic fertilizer fermented by goat manure had a significant effect on the number of leaves per plant and fruit weight per plot converted to hectares. NPK Mutiara fertilizer had a significant effect on plant height 42 Day After Planting, number of fruit plant, and fruit yield per plot converted to hectares. The dose of goat manure of 15 tons/ha has and NPK Mutiara 1,000 kg/ha gave a good effect on the number of fruit a plant and fruit yield per plot.

Keywords: Fermented organic Goat Manure, NPK Mutiara, Tomato