

ABSTRAK

PENGARUH KOMBINASI PUPUK BOKASHI KOTORAN SAPI DAN NPK TERHADAP PERTUMBUHAN DAN HASIL JAGUNG MANIS (*Zea mays saccharata* Strut)

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Penelitian ini bertujuan untuk mengetahui pengaruh kombinasi pupuk bokashi kotoran sapi dan pupuk NPK terhadap pertumbuhan dan hasil tanaman jagung manis serta mengetahui dosis pupuk bokashi kotoran sapi dan pupuk NPK yang memberikan pengaruh terbaik terhadap pertumbuhan dan hasil tanaman jagung manis. Percobaan ini dilaksanakan pada bulan Desember 2022 sampai Maret 2023, dikebun lahan percobaan yang berada di Desa Margaluyu Kecamatan Manonjaya Kabupaten Tasikmalaya. Penelitian ini menggunakan Rancangan Acak Kelompok (RAK) dengan 6 perlakuan dan ulangan sebanyak 4 kali yaitu A=300 kg/ha NPK 16-16-16, B=10 t/ha pupuk bokashi sapi + dosis 150 kg/ha NPK 16-16-16, C=15 t/ha pupuk bokashi sapi + dosis 150 kg/ha NPK 16-16-16, D=20 t/ha pupuk bokashi sapi + dosis 150 kg/ha NPK 16-16-16, E=25 t/ha pupuk bokashi sapi + dosis 150 kg/ha NPK 16-16-16, F=30 t/ha pupuk bokashi sapi + dosis 150 kg/ha NPK 16-16-16. Pengamatan dilakukan pada umur 14 HST, 28 HST, dan 56 HST. Hasil penelitian menunjukkan bahwa pemberian kombinasi pupuk bokashi dan NPK berpengaruh terhadap tinggi tanaman, jumlah daun pada umur 28 dan 56 HST, luas daun, diameter batang, umur berbunga, umur panen, panjang tongkol, bobot brangkasan, bobot tongkol per tanaman, dan bobot tongkol per petak di konversikan ke hektar, pada umur 14 HST tidak berbeda nyata terhadap tinggi tanaman dan jumlah daun. Didapatkan hasil dosis pupuk bokashi kotoran sapi dan NPK yang tepat yaitu 25 t/ha pupuk bokashi kotoran sapi dan dosis 150 kg/ha pupuk NPK 16-16-16 yang paling baik terhadap pertumbuhan dan hasil tanaman jagung manis (*Zea mays saccharata* Strut).

Kata kunci: Bokashi, jagung manis, NPK, kotoran sapi.

ABSTRACT

THE EFFECT OF THE COMBINATION OF BOKASHI FERTILIZER AND NPK ON THE GROWTH AND RESULTS OF SWEET CORN (*Zea mays saccharata Strut*)

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This study aims to determine the effect of the combination of cow dung bokashi fertilizer and NPK fertilizer on the growth and yield of sweet corn plants and to determine the dose of cow dung bokashi fertilizer and NPK fertilizer which has the best effect on the growth and yield of sweet corn plants. This experiment was carried out from December 2022 to March 2023, in an experimental garden located in Margaluyu Village, Manonjaya District, Tasikmalaya Regency. This study used a randomized block design (RBD) with 6 treatments and 4 repetitions, namely A = 300 kg/ha NPK 16-16-16, B = 10 t/ha cow bokashi fertilizer + a dose of 150 kg/ha NPK 16-16 -16, C=15 t/ha of cow bokashi fertilizer + dose of 150 kg/ha NPK 16-16-16, D=20 t/ha of cow bokashi fertilizer + dose of 150 kg/ha NPK 16-16-16, E=25 t/ha of cow bokashi fertilizer + dose of 150 kg/ha NPK 16-16-16, F=30 t/ha of cow bokashi fertilizer + dose of 150 kg/ha NPK 16-16-16. Observations were made at the age of 14 HST, 28 HST, and 56 HST. The results showed that the application of a combination of bokashi and NPK fertilizers had an effect on plant height, number of leaves at the age of 28 and 56 DAP, leaf area, stem diameter, flowering age, harvest age, cob length, stover weight, cob weight per plant, and cob weight per plot converted to hectares. At the age of 14 DAP there was no significant difference in plant height and number of leaves. The results showed that the correct dosage of cow dung and NPK bokashi fertilizer was 25 t/ha of cow dung bokashi fertilizer and a dose of 150 kg/ha of NPK 16-16-16 fertilizer which was the best for the growth and yield of sweet corn (*Zea mays saccharata Strut*).

Keywords: Bokashi, sweet corn, NPK, cow manure.