

RESPON PERTUMBUHAN DAN HASIL JAGUNG MANIS DI TANAH KAPURAN PADA BERBAGAI PEMBERIAN *VINASSE*

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INTISARI

Penelitian ini bertujuan untuk mengetahui respon pertumbuhan dan hasil jagung manis di tanah kapuran pada berbagai pemberian *vinasse*. Penelitian dilaksanakan di Lahan Jamur Merang Lestari Makmur, Dusun Kepuhan, Desa Agrotejo, Kecamatan Sedayu, Kabupaten Bantul, Yogyakarta. Pada ketinggian tempat ± 92 m dpl. Penelitian dilaksanakan pada bulan November 2019 sampai Januari 2020. Penelitian ini merupakan percobaan factor tunggal yang disusun dalam Rancangan Acak Lengkap (RAL) dengan 3 ulangan. Perlakuan yang diujikan adalah V1 100 % Pupuk anorganik urea + 0% POC *vinasse*, 75 % Pupuk anorganik urea + 25% POC *vinasse*, 50 % Pupuk anorganik urea + 50% POC *vinasse*, 25 % Pupuk anorganik urea + 75% POC *vinasse*, 0 % Pupuk anorganik urea + 100% POC *vinasse*. Hasil penelitian menunjukkan bahwa pemberian pupuk anorganik dan *vinasse* pada berbagai dosis berpengaruh nyata terhadap bobot segar tanaman jagung manis, dan berpengaruh terhadap hasil jagung manis pada variabel panjang tongkol tanpa kelobot, diameter tongkol berkelobot, diameter tongkol tanpa kelobot, bobot per tongkol berkelobot, bobot per tongkol tanpa kelobot, dengan dosis yang terbaik adalah V5 (0 % Pupuk anorganik urea + 100% POC *vinasse*).

Kata kunci : *Vinasse*, pupuk urea, tanah kapuran, jagung manis, variable pertumbuhan dan hasil.

RESPONSE TO THE GROWTH AND RESULTS OF SWEET CORN IN KAPURAN SOIL IN VARIOUS GIVING *VINASSE*

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ABSTRACT

This study aims to determine the response to growth and yield of sweet maize in kapuran soil to various applications of vinasse. The research was conducted in Merang Lestari Makmur Mushroom Field, Kepuhan Hamlet, Agrotejo Village, Sedayu District, Bantul Regency, Yogyakarta. At an altitude of ± 92 m above sea level. The study was conducted from November 2019 to January 2020. This study was a single factor experiment arranged in a completely randomized design (RAL) with 3 replications. The treatments tested were V1 100% inorganic urea + 0% POC vinasse, 75% urea inorganic fertilizer + 25% POC vinasse, 50% urea inorganic fertilizer + 50% POC vinasse, 25% inorganic urea fertilizer + 75% POC vinasse, 0 % Urea inorganic fertilizer + 100% POC vinasse. The results showed that the application of inorganic fertilizers and vinasse at various doses had a significant effect on the fresh weight of sweet corn plants, and had an effect on the yield of sweet corn on the variables of ear length without husks, ear diameter with weighted ear, ear diameter without cob, weight per ear weighted, weight per ear. Cob without husk, with the best dose is V5 (0% inorganic urea + 100% POC vinasse).

Key words: Vinasse, urea fertilizer, kapuran soil, sweet corn, variable growth and yield.