

Ayu Tri Rahmahdani Retnoningtyas 180311100150. Pengaruh Pemberian Pupuk Kandang Sapi dan Kompos Jerami Terhadap Serapan P, Pertumbuhan, dan Hasil Tanaman Jagung di Alfisol. Pembimbing **Dr. Ir. Eko Murniyanto, M.P.**

ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh pemberian pupuk kandang sapi dan kompos jerami terhadap serapan hara P, pertumbuhan dan produksi tanaman jagung Hibrida dan Lokal Tambin. Penelitian dilaksanakan sejak bulan November 2021 hingga bulan April 2022, di kebun Holtikultura Socah, Kabupaten Bangkalan Jawa Timur. Rancangan lingkungan yang digunakan adalah Rancangan Acak Kelompok (RAK) dengan perlakuan yang diuji dalam penelitian ini terdiri dari tanpa pemberian bahan organik (P1), pemberian pupuk kandang sapi 80,4 ton/ha (P2), dan pemberian kompos jerami 270,04 ton/ha (P3). Masing-masing perlakuan dicoba pada Jagung Hibrida Bisi-2 dan jagung Lokal Tambin. Hasil penelitian menunjukkan bahwa pemberian pupuk kandang sapi dan kompos jerami berpengaruh nyata pada jagung Hibrida Bisi-2 dan jagung Lokal Tambin. Pemberian pupuk kandang sapi dan kompos jerami berpengaruh nyata pada variabel, waktu berbunga, tinggi tanaman, diameter tongkol, bobot biji per tanaman dan berpengaruh tidak nyata pada variabel P-total tanah, pH, daya hantar listrik tanah, dan Serapan P jagung Hibrida Bisi-2. Pupuk kandang sapi dan kompos jerami berpengaruh nyata pada serapan P, tinggi tanaman, waktu berbunga, bobot segar dan kering tanaman, diameter tongkol namun berpengaruh tidak nyata pada P-total tanah, P-total tanaman, pH, daya hantar listrik, dan bobot biji per tanaman jagung Lokal Tambin

Kata Kunci : Jagung, Kompos Jerami, P Tanaman, P-Total, Pupuk Kandang Sapi, Serapan P.

Ayu Tri Rahmahdani Retnoningtyas 180311100150.*Effect of Cow Manure and Straw Compost on P Uptake, Growth, and Yield of Corn in Alfisols.* Advisor **Dr. Ir. Eko Murniyanto, M.P.**

ABSTRACT

This study aims to determine the effect of cow manure and straw compost on P nutrient uptake, growth and production of hybrid maize and local tambin. The research was carried out from November 2021 to April 2022, at the Socah Horticulture Garden, Bangkalan Regency, East Java. The environmental design used was a Randomized Block Design (RAK) with treatments tested in this study consisting of no organic matter (P1), 80.4 tons/ha of cow manure (P2), and 270.04 tons of straw compost. /ha (P3). Each treatment was tested on Bisi-2 Hybrid Corn and Tambin Local Corn. The results showed that the application of cow manure and straw compost had a significant effect on Bisi-2 hybrid corn and Tambin local corn. The application of cow manure and straw compost had a significant effect on the variables, flowering time, plant height, cob diameter, seed weight and had no significant effect on the variables P-total soil, pH, soil electrical conductivity, and P uptake of Bisi-2 hybrid maize. Cow manure and straw compost had a significant effect on P uptake, plant height, flowering time, plant fresh and dry weight, ear diameter, but had no significant effect on P-total soil, P-total plant, pH, electrical conductivity, and seed weight. Tambin Local Corn.
Keywords: Corn, Straw Compost, Plant P, Total P, Cow Manure, P Uptake.