

Intisari

Pengaruh 'KALAM' (Kompos, Arang, Lindi, Abu, dan Mikroba) sebagai Penutup Lubang Tanam terhadap Pertumbuhan Jagung

Penelitian ini dilakukan untuk mengetahui pengaruh kalam (kompos, arang, lindi, abu dan mikroba) sebagai penutup lubang tanam terhadap pertumbuhan tanaman jagung. Penelitian dilakukan di lapangan di lahan entisol, Kediri, Jawa Timur pada September-Desember 2021. Rancangan penelitian menggunakan Rancangan Acak Kelompok Lengkap (RAKL) kombinasi dosis kalam yaitu kontrol, 3 gr/lubang tanam, 6 gr/lubang tanam, 9 gr/lubang tanam, 12 gr/lubang tanam, 15 gr/lubang tanam, 18gr/lubang tanam, 21 gr/lubang tanam, 24 gr/lubang tanam, 27 gr/lubang tanam, 30 gr/lubang tanam. Hasil penelitian menunjukkan pengaruh kalam meningkatkan pertumbuhan tinggi tanaman, diameter batang, dan N total. Perlakuan 30gr/lubang tanam memberikan hasil tertinggi terhadap tinggi tanaman, diameter batang, N Total. Perlakuan 30gr/lubang tanam memberikan serapan N dan K tertinggi, sedangkan serapan P tertinggi pada perlakuan 27 gr/lubang tanam.

Kata kunci: entisol, jagung, biochar tongkol jagung, pupuk kandang sapi

Abstract

Effect of 'KALAM' (Kompos, Arang, Lindi, Abu, and Mikroba) as Planting Hole Cover on Corn Growth

This research was conducted to determine the effect of the application of kalam (compost, charcoal, leachate, ash and microbes) as a cover for planting holes on the growth of corn plants. The research was carried out in the field in Entisols, Kediri, East Java, September-December 2021. The research design used a Randomized Complete Block Design (RCBD) with a combination of kalam doses, including control, 3 g/planting hole, 6 g/planting hole, 9 g/planting hole, 12 gr/planting hole, 15 gr/planting hole, 18 gr/planting hole, 21 gr/planting hole, 24 gr/planting hole, 27 gr/planting hole, 30 gr/planting hole. The results showed that the application of kalam increased the growth of plant height, stem diameter, and total N. Treatment of 30gr/planting hole gave the highest yield on plant height, stem diameter, total N. Treatment of 30gr/planting hole gave the highest yield on plant height, stem diameter, total N. the highest N and K uptake, while the highest P uptake was at 27 g/planting hole.

Keywords: corn cob biochar, cow manure fertilizer, entisols, zea mays