

## INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh pupuk rekomendasi (tanpa dipeletkan) dengan pupuk pelet NPK- Kompos Kotoran Kambing dan mengetahui dosis pupuk pelet NPK- Kompos Kotoran Kambing pada tanah regosol. Penelitian dilakukan di Lahan Percobaan Fakultas Pertanian, Universitas Muhammadiyah Yogyakarta dari bulan Juli sampai September 2018.

Penelitian ini dilakukan menggunakan metode percobaan faktor tunggal yaitu dosis, Perlakuan yang diujikan terdiri dari 5 perlakuan yang disusun dalam Rancangan Acak Kelompok Lengkap (RAKL) dengan 3 ulangan perlakuan yaitu K1 = Urea 0,222 kg /blok, SP-36 0,111 kg/blok dan KCl 0,055 kg/blok, K2 = Pelet NPK- Kotoran kambing 750 Kg /hektar, K3 = Pelet NPK-Kotoran Kambing 1.000 Kg/hektar, K4 = Pelet NPK- Kotoran Kambing 1500kg/hektar dan K5 = Pelet NPK-Kotoran Kambing 2.000 Kg/hektar.

Hasil penelitian menunjukkan bahwa semua perlakuan berbagai dosis pupuk pelet NPK-Kompos kotoran kambing berbeda nyata pengaruhnya terhadap pertumbuhan dan hasil tanaman Jagung Hitam. Penggunaan pupuk pelet NPK-Kompos kotoran kambing 1,5 ton/ha lebih efektif untuk meningkatkan pertumbuhan dan hasil tanaman Jagung Hitam (*Zea mays. L*) pada tanah regosol. Penggunaan pupuk pelet NPK-Kompos kotoran kambing 1,5 ton/ha dapat mensubstitusi pupuk Anorganik

Kata Kunci : jagung hitam, pupuk pelet NPK-Kompos Kotoran Kambing, dan tanah regosol

## **ABSTRACT**

*The research aims to know the effect of recommendation manure (without pelletized) with NPK-Azolla pellets manure and to determine the most effective doses of NPK-Azolla pellets manure to increase the growth and yield of baby corn (*Zea mays. L*) on regosol soil. The research was conducted in the Green House of Faculty of Agriculture, University of Muhammadiyah Yogyakarta on March until May 2015.*

*The research was conducted using a single factor experimental method, namely dose, the treatment tested consisted of 5 treatments which were arranged in a Complete Randomized Design with 3 treatments, namely K1 = Urea 300 kg / ha, SP-36 150 kg / ha and KCl 75 kg / ha, K2 = Pellets NPK-Goat manure 750 Kg / hectare, K3 = NPK-Goat Manure 1,000 Kg / hectare, K4 = Pellets NPK-Goat Manure 1500 kg / hectare and K5 = Pellets NPK-Goat Manure 2,000 Kg / hectare.*

*The results showed that all treatments of various NPK-Compost pellet fertilizer for goat manure had a significant effect on growing and yield of Black Corn plants. The use of NPK-pellet fertilizer Composted goat manure 1.5 tons / ha is more effective to increase the growth and yield of Black Corn (*Zea mays. L*) on regosol soil. The use of NPK-pellet fertilizer Composted goat manure 1.5 tons / ha can substitute inorganic fertilizers.*

*Keywords: Black Corn, NPK-Goat pellets manure, and regosol soil.*