

**PEMBERIAN PUPUK KOTORAN AYAM DAN PUPUK ORGANIK CAIR
JAKABA TERHADAP PERTUMBUHAN DAN HASIL TANAMAN
LOBAK PUTIH (*Raphanus sativus* L.)**

**Oleh: Hafizh Arga Fadhilla
Dibimbing oleh: Ari Wijayani**

ABSTRAK

Lobak putih berpotensi untuk dikembangkan pembudidayaannya, terutama dengan kombinasi pupuk organik padat dan cair. Penelitian ini bertujuan untuk mengetahui interaksi antara pupuk kotoran ayam dan POC Jakaba, serta mendapatkan dosis dan konsentrasi terbaik untuk pertumbuhan dan hasil lobak putih. Penelitian lapangan ini menggunakan Rancangan Acak Kelompok Lengkap (RAKL) dengan dua faktor: dosis pupuk kotoran ayam (80, 120, 160 g/polybag) dan konsentrasi POC Jakaba (20, 40, 60 ml/liter). Data dianalisis dengan Sidik Ragam ($\alpha = 5\%$) dan dilanjutkan Uji Jarak Berganda Duncan (DMRT 5%). Hasil menunjukkan adanya interaksi. Kombinasi pupuk kotoran ayam 80 g/polybag dan POC Jakaba 20 ml/L memberikan hasil paling baik untuk panjang umbi. Kombinasi pupuk kotoran ayam 160 g/polybag dan POC Jakaba 40 ml/L paling baik untuk bobot basah dan kering umbi. Dosis kotoran ayam 160 g/polybag paling baik untuk tinggi tanaman 2 dan 3 MST, jumlah daun 2, 3, dan 4 MST, diameter umbi, dan bobot segar per tanaman. Adapun konsentrasi POC Jakaba 60 ml/L paling baik pada tinggi tanaman 4 MST dan jumlah daun 5 MST.

Kata kunci: lobak putih, pupuk kotoran ayam, POC jakaba

**THE APPLICATION OF CHICKEN MANURE AND LIQUID ORGANIC
FERTILIZER JAKABA ON THE GROWTH AND YIELD OF WHITE
RADISH (*Raphanus sativus* L.)**

**By: Hafizh Arga Fadhillah
Supervised by: Ari Wijayani**

ABSTRACT

White radish has the potential to be developed by cultivators, especially with a combination of solid and liquid organic fertilizers. This study aims to understand the interaction between chicken manure fertilizer and POC Jakaba, as well as to obtain the best doses and concentrations for the growth and yield of white radish. This field research used a Completely Randomized Block Design (CRBD) with two factors: doses of chicken manure fertilizer (80, 120, 160 g/polybag) and concentrations of POC Jakaba (20, 40, 60 ml/liter). The data were analyzed using Analysis of Variance ($\alpha = 5\%$) followed by Duncan's Multiple Range Test (DMRT 5%). The results showed an interaction. The combination of chicken manure fertilizer 80 g/polybag and POC Jakaba 20 ml/L provides the best results for tuber length. The combination of chicken manure fertilizer 160 g/polybag and POC Jakaba 40 ml/L is best for wet and dry tuber weight. The dose of chicken manure 160 g/polybag is best for plant height at 2 and 3 MST, number of leaves at 2, 3, and 4 MST, tuber diameter, and fresh weight per plant. Meanwhile, the concentration of POC Jakaba 60 ml/L is best for plant height at 4 MST and number of leaves at 5 MST.

KeyWord: white radish, chicken manure fertilizer, liquid organic fertilizer jakaba