

RESPON PERTUMBUHAN dan HASIL TANAMAN PAKCOY TERHADAP PERLAKUAN MEDIA TANAM dan UKURAN *POLYBAG*

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ABSTRAK

Ketersediaan lahan di daerah kota semakin kecil, menanam tanaman di dalam *polybag* ini sangat efisien karena dapat dilakukan di lahan yang sempit seperti pekarangan rumah. Penelitian bertujuan menentukan kombinasi media tanam dan ukuran *polybag* yang paling baik terhadap pertumbuhan dan hasil tanaman pakcoy. Penelitian dilaksanakan bulan Maret-April 2023 di Kebun UPN Veteran Yogyakarta, Condongcatur, Sleman. Metode penelitian menggunakan percobaan lapangan disusun dengan Rancangan Acak Lengkap (RAL) dua faktor. Faktor pertama kombinasi media tanam yang terdiri dari tiga taraf yaitu Pupuk Kotoran Ayam : *Cocopeat* (1:1); Pupuk Kotoran Ayam : Arang Sekam (1:1); Pupuk Kotoran Ayam : Arang Sekam : *Cocopeat* (1:1:1). Faktor kedua ukuran *polybag* dengan tiga taraf yaitu 25 cm x 25 cm; 30 cm x 30 cm dan 35 cm x 35 cm. Data dianalisis keragamannya dengan *Analysis of Varian* (ANOVA) taraf α 5% dan diuji lanjut menggunakan uji *Duncan Multiple Range Test* (DMRT) pada taraf α 5%. Hasil penelitian menunjukkan bahwa terdapat interaksi pada perlakuan media tanam dan perlakuan ukuran *polybag* pada tinggi tanaman 4 MST. Perlakuan 30 cm x 30 cm dan 35 cm x 35 cm menunjukkan pengamatan paling baik terhadap tinggi tanaman (cm), jumlah daun (helai), luas daun (cm²), volume akar (ml), bobot segar tanaman per tanaman (g), bobot ekonomis per tanaman (g) dan bobot segar tanaman per hektar (ton).

Kata kunci: pakcoy, media tanam, ukuran *polybag*.

RESPONSE OF GROWTH AND YIELD OF PAKCOY PLANTS TO THE TREATMENT OF PLANTING MEDIA and POLYBAG SIZE

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ABSTRACT

The availability of land in the city area is getting smaller, planting plants in polybags is very efficient because it can be done on narrow land such as the yard of the house. The study aims to determine the combination of planting media and polybag size that is best for the growth and yield of pakcoy plants. The research was conducted in March-April 2023 at UPN Veteran Yogyakarta Garden, Condongcatur, Sleman. The research method using field experiments was prepared with a two-factor Complete Randomized Design (RAL). The first factor is the combination of planting media consisting of three levels, namely Chicken Manure Fertilizer : Cocopeat (1:1), Chicken Manure Fertilizer: Husk Charcoal (1:1), Chicken Manure Fertilizer: Husk Charcoal : Cocopeat (1:1:1). The second factor is the size of the polybag with three levels, namely 25 cm x 25 cm, 30 cm x 30 cm and 35 cm x 35 cm. The data were analyzed for diversity with Analysis of Variance (ANOVA) at α 5% and further tested using Duncan Mutiple Range Test (DMRT) at α 5%. The results showed that there was an interaction in the treatment of planting media and polybag size treatment at plant height of 4 MST. Treatments of 30 cm x 30 cm and 35 cm x 35 cm showed the best results on plant height (cm), number of leaves (strands), leaf area (cm²), root volume (ml), fresh weight of plants per plant (g), economic weight per plant (g) and fresh weight of plants per hectare (ton).

Keywords: pakcoy, planting media, polybag size.