

**PENGARUH JENIS KOMPOS PUPUK KANDANG TERHADAP
PERTUMBUHAN DAN HASIL BROKOLI DENGAN MEDIA TANAM
BERKOMPOS GULMA SIAM**

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INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh jenis kompos pupuk kandang terhadap pertumbuhan dan hasil brokoli dengan media tanam berkompos gulma siam. Penelitian dilakukan di Desa Sumberagung Moyudan, Sleman dan di Laboratorium Agroteknologi Universitas Mercu Buana Yogyakarta pada bulan April sampai Agustus 2018. Penelitian ini merupakan percobaan faktor tunggal yang disusun dalam Rancangan Acak Lengkap (RAL), dengan tiga ulangan. Perlakuan yang digunakan adalah kompos pupuk kandang ayam, kompos pupuk kandang kambing, kompos pupuk kandang sapi, masing-masing dengan dosis 10 ton/ha dan diaplikasikan ke media tanam berkompos gulma siam dengan dosis 5 ton/ha dan kontrol menggunakan media tanam tanah dengan pupuk Urea, SP-36, dan KCL. Variable yang diamati meliputi tinggi tanaman (cm), diameter batang (mm), jumlah daun (helai), bobot segar dan bobot kering tanaman (gram), panjang akar (cm), volume akar (ml), bobot bunga (gram), dan diameter bunga (mm). Hasil penelitian menunjukkan bahwa perlakuan berbagai jenis kompos pupuk kandang pada media tanam berkompos gulma siam berpengaruh terhadap pertumbuhan dan hasil tanaman brokoli kecuali pada jumlah daun, volume akar, bobot bunga, dan diameter bunga. Pertumbuhan dan hasil brokoli dengan perlakuan kompos pupuk kandang kambing lebih baik dibanding perlakuan kompos pupuk kandang ayam, kompos pupuk kandang sapi, maupun pupuk anorganik (Urea, SP-36, dan KCL).

Kata kunci : brokoli, kompos pupuk kandang, pertumbuhan dan hasil

THE EFFECT OF VARIOUS MANURE COMPOST ON THE GROWTH AND YIELD OF BROCCOLI WITH SIAM WEEDS COMPOST INCOPORATED MEDIA

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ABSTRAC

This study aims to determine the effect of the various of manure compost on the growth and yiled of broccoli with siam weeds compost incorporated media. The research was conducted in Sumberagung, Moyudan, Sleman and Agrotechnology Laboratory of Mercu Buana University of Yogyakarta in April to August 2018. This study was a single factor experiment arranged in a Completely Randomized Design (CRD), with three replication. The treatment used were chicken manure compost, goat manure compost, cow manure compost, each dose of 10 tons/ha and application to the planting media with siam weeds compost 5 tons/ha and, control was soil media with Urea, SP-36, and KCL fertilizer. Variable observed included plant height (cm), stem diameter (mm), number of leaves (sheet), fresh and dry weight of plant (gram), root length (cm), root volume (ml), flower weight (gram), and flower diameter (mm). The results showed that all types of manure compost treatment on siam weeds compost incorporated media give a significantly effect on the growth and yield of broccoli except on the number of leaves, root volume, flower weight, and flower diameter. The growth and yield of broccoli with the goat manure compost treatment is better than the treatment of chicken manure compost, cow manure compost, and control with (Urea, SP-36, and KCL fertilizer)

Keywords : Broccoli, manure compost, growth and yield