

RESPON PERTUMBUHAN DAN HASIL CAISIM (*Brassica chinensis* L.) PADA BERBAGAI DOSIS PUPUK GUANO PADAT

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Tujuan penelitian ini adalah mengetahui pengaruh pemberian pupuk Guano padat terhadap pertumbuhan tanaman sawi caisim (*Brassica chinensis* L.) dengan dosis yang berbeda agar dapat mengetahui hasil tanaman caisim yang terbaik. Penelitian dilakukan di kebun praktek Fakultas Pertanian UPN “Veteran” Yogyakarta terletak di Wedomartani, Sleman, Daerah Istimewa Yogyakarta. Penelitian menggunakan metode Rancangan Acak Kelompok Lengkap (RAKL) dengan 6 perlakuan dan 4 ulangan, penggunaan perlakuan dosis pupuk Guano (kontrol/0; 6,54; 13,08; 19,62; 26,16; dan 32,70) gram/polybag yang kemudian hasil penelitian dianalisis menggunakan sidik ragam pada taraf 5% untuk mengetahui respon pengaruh perlakuan dosis terhadap variabel yang diamati. Perlakuan yang memberikan pengaruh nyata maka dilanjutkan dengan uji lanjut *Duncan's Multiple Range Test (DMRT)* dengan taraf 5%. Hasil penelitian menunjukkan bahwa pemberian pupuk organik guano padat pada tanaman caisim berumur 14 HST, 21 HST dan 28 HST memberikan pengaruh terbaik dan efektif pada perlakuan pemberian pupuk guano sebesar 15 ton/ha setara 19,62 gram/polybag terhadap parameter tinggi tanaman, jumlah daun, diameter batang, panjang akar, bobot segar tanaman dan bobot kering tanaman.

Kata kunci : tanaman caisim, pupuk Guano, dosis, *polybag*

RESPONSE OF GROWTH AND RESULTS OF CAISIM PLANT (*Brassica chinensis* L.) IN VARIOUS DOSAGES OF SOLID GUANO MANURE

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This study aims to determine the effect of giving the solid guano manure on the growth of caisim plant (*Brassica chinensis* L.) with difference dosages in order to determine the best caisim plant in the study. This research was conducted in the practical garden of the Faculty of Agriculture, UPN "Veteran" Yogyakarta, located at Wedomartani, Sleman, Special Region of Yogyakarta. The study used method with a Randomized Completely Block Design (RCBD) with 6 treatments and 4 replications, the use of treatment dosages of Guano manure (control/0; 6.54; 13.08; 19.62; 26.16; and 32.70) gram/polybag which analyzed using analysis of variance at the 5% level to determine the response's effect of various dosages treatments on the observed variables. The treatment that gives a real effect is continued with the Duncan Multiple Range Test (DMRT) with a level of 5%. The results showed that the application of bat guano organic fertilizer on caisim plants aged 14 days after planting (DAP), 21 DAP and 28 DAP gave the best and effective effect on the treatment of guano fertilizer at 15 dosages tons/ha equivalent to 19.62 dosages grams/polybag to the parameters of plant height, number of leaves, stem diameter, root length, plant fresh weight and plant dry weight.

Keywords : *Brassica chinensis* L., Guano manure, dosages, polybag