PENGARUH PEMBERIAN PUPUK ORGANIK KASCING DAN PUPUK KOTORAN KAMBING TERHADAP RESPON PERTUMBUHAN TANAMAN BUNCIS TEGAK *(Phaseolus vulgaris* L.)

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ABSTRAK

Buncis sayuran yang banyak diminati masyarakat Indonesia, karena buncis memiliki sumber nutrisi yang tinggi. Upaya meningkatkan produksi buncis yaitu perlu dilakukannya penerapan budidaya yang baik, salah satunya yaitu dengan pemberian pupuk organik. Salah satu alternatif pupuk yang digunakan yaitu pupuk organik kascing dan pupuk kotoran kambing. Tujuan dari penelitian ini adalah mengetahui pengaruh pupuk kascing dan pupuk kambing terhadap pertumbuhan buncis dan dosis yang paling optimal meningkatkan produktivitas tanaman buncis. Penelitian ini menggunakan metode RAL (Rancangan acak lengkap) dengan 9 jenis perlakuan dan 3 kali ulangan setiap perlakuan. Parameter diukur yaitu tinggi tanaman, jumlah daun, jumlah polong, bobot kering polong, bobot segar berangkasan dan bobot kering berangkasan. Analisis data menggunakan sidik ragam dan DMRT taraf 5%. Hasil penelitian menunjukkan pemberian pupuk kascing dan kotoran kambing tidak berpengaruh nyata terhadap tinggi tanaman, jumlah daun, jumlah polong, bobot kering dan segar polong, bobot segar dan kering berangkasan tetapi berpengaruh nyata terhadap bobot segar polong.

Kata kunci : *Buncis, kotoran kambing, pupuk kascing, pertumbuhan buncis.*

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ABSTRACT

Vegetable beans that are in great demand by Indonesian people, brcause beans have a high source of nutrients. Efforts to increase bean production are necessary to implement good cultivation, one of which is by applying organic fertilizers. One of the alternative fertilizers used is vermicompost organic fertilizer and goat manure. The purpose of this study was to determine the effect of vermicompost and goat manure on the growth of green beans and the optimal dose to increase the productivity of green beans. This study used the CRD method (completely randomized design) with 9 types of treatment and 3 replications for each treatment. Parameters measured were plant height, number of leaves, number of pods, pod dry weight, fresh weight of stalks and dry weight of stalks. Data analysis used variance and 5% DMRT level. The results showed that the application of vermicompost fertilizer and goat manure had no significant effect on plant height, number of leaves, number of pods, dry and fresh weight of pods, fresh and dry weight of stalks but had a significant effect on fresh weight of pods.

Key words: *Beans, goat manure, vermicompost fertilizer, bean growth.*