

ABSTRAK

PENGARUH KOMBINASI PUPUK TRICHOKOMPOS DAN PUPUK NPK DENGAN LEVEL BERBEDA TERHADAP PRODUKTIVITAS RUMPUT PAKCHONG

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Penelitian ini bertujuan untuk mengetahui interaksi dan pengaruh pemberian kombinasi pupuk trichokompos dan pupuk NPK dengan level berbeda terhadap produktivitas rumput pakchong. Penelitian ini dilaksanakan pada Oktober--Desember 2023 di Rumah Kaca Laboratorium Lapang Terpadu dan Laboratorium Nutrisi dan Makanan Ternak, Jurusan Peternakan, Fakultas Pertanian, Universitas Lampung. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) Faktorial yang terdiri atas faktor pupuk trichokompos dan pupuk NPK. Faktor pupuk trichokompos terdiri dari 4 taraf perlakuan yaitu T0: tanpa trichokompos (kontrol), T1: 15 ton/ha pupuk trichokompos, T2: 30 ton/ha pupuk trichokompos, dan T3: 45 ton/ha pupuk trichokompos dan faktor pupuk NPK terdiri dari 4 taraf perlakuan yaitu K0: tanpa pupuk NPK (kontrol), K1: 100 kg/ha urea + 50 kg/ha TSP + 50 kg/ha KCL, K2: 150 kg/ha urea + 75 kg/ha TSP + 75 kg/ha KCL, dan K3: 200 kg/ha urea + 100 kg/ha TSP + 100 kg/ha KCL. Data yang diperoleh dianalisis menggunakan analisis ragam dan dilanjutkan dengan uji lanjut Beda Nyata Terkecil (BNT). Hasil penelitian menunjukkan bahwa kombinasi pupuk trichokompos dan pupuk NPK tidak memberikan interaksi yang nyata ($P > 0,05$) terhadap jumlah anakan, bobot segar dan bahan kering tajuk rumput pakchong. Pemberian pupuk trichokompos berpengaruh nyata ($P < 0,05$) terhadap bobot segar dan bahan kering tajuk rumput pakchong. Hasil uji BNT (Beda Nyata Terkecil) pada bobot segar dan bahan kering tajuk rumput pakchong menunjukkan bahwa perlakuan pupuk trichokompos T0 tidak berbeda nyata dengan perlakuan T1 dan T2. Selanjutnya perlakuan T1 tidak berbeda nyata dengan ketiga perlakuan. Sedangkan perlakuan T3 berbeda nyata dengan perlakuan T0 dan T2.

Kata Kunci : pupuk NPK, produktivitas, rumput pakchong, trichokompos

ABSTRACT

THE EFFECT OF COMBINATION TRICHOCOMPOST AND NPK FERTILIZER WITH DIFFERENT LEVELS ON THE PRODUCTIVITY OF PAKCHONG GRASS

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This research aims to determine the interaction and effect of applying a combination of trichocompost fertilizer and NPK fertilizer with different levels on the productivity of pakchong grass. This research was conducted from October to December 2023 at the Integrated Field Laboratory Greenhouse and Animal Nutrition and Food Laboratory, Department of Animal Husbandry, Faculty of Agriculture, University of Lampung. This study used a factorial completely randomized design (CRD) consisting of trichocompost and NPK fertilizer factors. The trichocompost fertilizer factor consisted of 4 treatment levels, namely T0: without trichocompost (control), T1: 15 tons/ha of trichocompost fertilizer, T2: 30 tons/ha of trichocompost fertilizer, and T3: 45 tons/ha of trichocompost and the NPK fertilizer factor consists of 4 treatment levels, namely K0: no NPK fertilizer (control), K1: 100 kg/ha urea + 50 kg/ha TSP + 50 kg/ha KCL, K2: 150 kg/ha urea + 75 kg/ha TSP + 75 kg/ha KCL, and K3: 200 kg/ha urea + 100 kg/ha TSP + 100 kg/ha KCL. The data obtained were analyzed using analysis of variance and followed by a further test of the Least Significant Difference (BNT). The results showed that the combination of trichocompost and NPK fertilizer did not give a significant interaction ($P > 0.05$) on the number of tillers, fresh weight and dry matter of pakchong grass crown. Trichocompost fertilizer had a significant effect ($P < 0.05$) on fresh weight and dry matter of pakchong grass crown. The results of the LSD (Least Significant Difference) test on fresh weight and dry matter of the crown showed that the treatment of trichocompost fertilizer T0 was not significantly different from the treatment of T1 and T2. Furthermore, the T1 treatment is not significantly different from the three treatments. While the T3 treatment is significantly different from the T0 and T2 treatments.

Keywords: NPK fertilizer, pakchong grass, productivity, trichocompost