

ABSTRAK

PENGARUH PEMBERIAN JENIS DAN DOSIS PUPUK NITROGEN TERHADAP KANDUNGAN PROTEIN KASAR DAN SERAT KASAR RUMPUT GAMA UMAMI

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Penelitian ini bertujuan untuk mengetahui adanya pengaruh jenis dan dosis pupuk nitrogen terhadap kandungan protein kasar dan serat kasar rumput gama umami. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) dengan metode split plot design (rancangan petak terbagi) dengan dua taraf perlakuan yaitu perlakuan utama (*main plot*) dan perlakuan anak petak (*sub plot*). Perlakuan utama berupa jenis-jenis pupuk nitrogen: pupuk urea (K1); pupuk CAN (R2). Perlakuan anak petak berupa dosis penggunaan pupuk kandang: 0 N kg/ha (R0); (50 N kg/ha (R1); 100 N kg/ha (R2); dan 150 N kg/ha (R3). Setiap unit perlakuan percobaan berupa lahan petak berukuran 1,4 x 1,6 m. Setiap unit percobaan diulang sebanyak 3 kali, sehingga terdapat 24 unit percobaan. Data yang diperoleh dianalisis ragam pada taraf nyata 5%, dilanjutkan menggunakan uji BNT (Beda nyata Terkecil), hasil penelitian menunjukkan bahwa penggunaan jenis pupuk nitrogen yang berbeda berpengaruh nyata ($P < 0,05$) terhadap protein kasar (K1: 9,03%; K2: 7,04%) tetapi tidak berpengaruh nyata ($P > 0,05$) terhadap kandungan serat kasar. Penggunaan dosis pupuk nitrogen yang berbeda tidak berpengaruh nyata ($P > 0,05$) terhadap protein kasar dan serat kasar.

Kata kunci: Dosis pupuk nitrogen, Jenis pupuk nitrogen, Protein kasar, Rumput gama umami, dan Serat kasar

ABSTRACT

THE EFFECT OF APPLYING THE TYPE AND DOSE OF NITROGEN FERTILIZER TO THE CONTENT OF CRUDE PROTEIN AND CRUDE FIBER OF GAMA UMAMI GRASS

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This research aims to determine the influence of the type and doses of nitrogen fertilizer on the crude protein and crude fiber of gama umami grass. This research used a Complete Randomized Design (RAL) with a split plot design method with two levels of treatment, namely the main treatment (main plot) and the sub treatment (sub plots). The main treatment is in the form of types of nitrogen fertilizers: urea fertilizer (K1); CAN fertilizer (K2). Treatment of plot children in the form of manure use dose: 0 N kg / ha (R0); 50 N kg/ha (R1); 100 N kg/ha (R2); and 150 N kg/ha (R3). Each experimental treatment unit was in the form of a plot measuring 1.4 x 1.6 m. Each experimental unit was repeated 3 times, so there are 24 experimental units. The data obtained was analyzed for variety at a real level of 5%, continued using the BNT test (Smallest Real Difference), the results showed that the use of different types of nitrogen fertilizers had a real effect ($P < 0.05$) on crude protein (K1: 9.03%; K2: 7.04%), but had no real effect ($P > 0.05$) on crude fiber content. The use of different doses of nitrogen fertilizers has no noticeable effect ($P > 0.05$) on crude protein and crude fiber.

Keywords: Crude fiber, Crude protein, Gama umami grass, Nitrogen fertilizer dose, and Nitrogen fertilizer type.