

ABSTRAK

PENGARUH PEMBERIAN BERBAGAI LEVEL DOSIS PUPUK NPK YANG BERBEDA TERHADAP PRODUKTIVITAS TIGA VARIETAS RUMPUT GAJAH

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Penelitian ini bertujuan untuk mengetahui interaksi antara pemberian pupuk NPK, dosis terbaik pupuk NPK, dan varietas terbaik antar varietas rumput gajah terhadap produktivitasnya. Penelitian ini menggunakan Rancangan Petak Terbagi (*Split plot design*). Sebagai petak utama adalah varietas rumput gajah yang terdiri dari V1: rumput Pakchong (*Pennisetum purpureum* cv. *Thailand*), V2: rumput Red Napier (*Pennisetum purpureum* cv. *Purple*), dan V3: rumput Biogen Biovitas (*Pennisetum purpureum* cv. *Biovitas*). Adapun sebagai petak anakan dari rancangan adalah dosis pupuk NPK yaitu D0: tanpa perlakuan (kontrol), D1: dosis pupuk NPK sebanyak 150 kg/ha, D2: dosis pupuk NPK sebanyak 300 kg/ha, D3: dosis pupuk NPK sebanyak 450 kg/ha. Setiap unit diulang sebanyak 3 kali, sehingga terdapat 36 unit percobaan. Peubah yang diukur adalah jumlah anakan, bobot segar, dan bobot kering. Data penelitian dianalisis menggunakan *Analysis of Variance* (ANOVA). dan uji lanjut menggunakan uji Duncan. Hasil penelitian menunjukkan pemberian level pupuk berpengaruh sangat nyata ($P < 0,01$) terhadap bobot segar dan bobot kering. Varietas rumput berpengaruh sangat nyata ($P < 0,01$) terhadap bobot segar dan bobot kering. Namun tidak berpengaruh nyata ($P > 0,05$) terhadap jumlah anakan.

Kata Kunci : Pupuk NPK, Produktivitas, Rumput Pakchong, Rumput Red Napier, Rumput Biovitas.

ABSTRACT

THE EFFECT OF GIVING DIFFERENT LEVELS OF NPK FERTILIZER DOSES ON THE PRODUCTIVITY OF THREE VARIETIES OF ELEPHANT GRASS

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This study aims to determine the interaction between the applying of NPK fertilizer, the best dose of NPK fertilizer, and the best varieties among elephant grass varieties on their productivity. This study used a Split Plot Design. The main plots were elephant grass varieties consisting of V1: Pakchong grass (*Pennisetum purpureum* cv. Thailand), V2: Red Napier grass (*Pennisetum purpureum* cv. Purple), and V3: Biogen Biovitas grass (*Pennisetum purpureum* cv. Biovitas). As for the sub-plot of the design is the dose of NPK fertilizer, namely D0: without treatment (control), D1: NPK fertilizer dose of 150 kg / ha, D2: NPK fertilizer dose of 300 kg / ha, D3: NPK fertilizer dose of 450 kg / ha. Each unit was repeated 3 times, so there were 36 experimental units. The variables measured were the number of tillers, fresh weight, and dry weight. The research data were analyzed using Analysis of Variance (ANOVA). and further testing using the Duncan test. The results showed that the administration of fertilizer had a very significant effect ($P < 0.01$) on fresh weight and dry weight. Grass varieties had a very significant effect ($P < 0.01$) on fresh weight and dry weight. However, there was no significant effect ($P > 0.05$) on the number of tillers.

Keywords: NPK Fertilizer, Productivity, Pakchong Grass, Red Napier Grass, Biovitas Grass.