

PENGARUH PEMBERIAN URIN SAPI DENGAN DOSIS YANG BERBEDA TERHADAP PRODUKTIVITAS RUMPUT

SETARIA (*Setaria sphacelata*)

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INTISARI*)

Penelitian ini bertujuan untuk mengetahui pengaruh pemberian urin sapi dengan dosis yang berbeda terhadap produktivitas rumput setaria (*Setaria sphacelata*). Penelitian telah dilakukan di Unit Pelaksana Teknis (UPT) Teaching Farm Fakultas Agroindustri Universitas Mercu Buana Yogyakarta yang terletak di Gunung Bulu, Argorejo, Sedayu, Bantul dan dilanjutkan di Laboratorium Produksi Ternak Universitas Mercu Buana Yogyakarta pada tanggal 25 April sampai 7 Juli 2019. Penelitian ini dilakukan dengan Rancangan Acak Kelompok (RAK) dengan 4 perlakuan 3 kali ulangan sehingga diperoleh 12 unit perlakuan. Perlakuan yang diberikan adalah P0 (Kontrol), P1 (0,5 l/m²) P2 (0,75 l/m²) dan P3 (1 l/m²). Variabel pengamatan yang diukur adalah tinggi tanaman (cm), jumlah daun (helai), jumlah anakan (pols), produktivitas berat segar (ton/ha/panen) dan produktivitas berat kering oven (ton/ha/panen). Data hasil penelitian dianalisis dengan analisis variansi pada taraf 5% dan untuk mengetahui perbedaan antar perlakuan menggunakan uji *Duncan Multiple Range Test* (DMRT) taraf 5%. Dengan perlakuan P0, P1, P2, dan P3 penelitian menghasilkan : Rerata tinggi tanaman 26,30; 26,86; 29,64; dan 26,03 cm. Rerata jumlah daun 5,66; 6,24; 6,91; dan 5,77 helai. Rerata jumlah anakan 14,69; 19,57; 19,39; dan 17,52 pols. Rerata produksi berat segar 17,86; 25,69; 25,97; dan 18,80 ton/ha/panen. Rerata produksi berat kering 8,28; 12,47; 14,60; dan 10,96 ton/ha/panen. Berdasarkan hasil penelitian dapat disimpulkan bahwa pemberian urin sapi sampai dosis 1 l/m² tidak mempengaruhi produktivitas rumput setaria.

Kata Kunci: Rumput setaria, produktivitas, urin sapi.

**THE EFFECT OF DIFFERENT DOSAGE COW URINE ON PRODUCTIVITY OF
SETARIA GRASS (*Setaria sphacelata*)**

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ABSTRACT*)

This study aimed to know the influence of giving cow urine with different dosage on productivity of setaria (*Setaria sphacelata*) grass. This research was conducted in Teaching Farm Unit, Agroindustry Faculty, University of Mercu Buana Yogyakarta and continued in the Animal Production Laboratory University of Mercu Buana Yogyakarta on 25 April to 7 July 2019. This research was designed by Randomized Block Design consisting with 4 treatment and 3 replications so that 12 units were obtained. The treatment of P0 (control) P1 (0,5 l/m²) P2 (0,75 l/m²) and P3 (1 l/m²). The Observed variables measured were plant height, number of leaves, number of poll, productivity of fresh weight (tons/ha/harvest) and oven dry weight productivity (tons/ha/harvest). The research data were analyzed with Analysis of Variance (ANOVA) at 5% level and to know the differences between treatments using the Duncan New Multiple Range Test (DMRT) level of 5%. With the treatment of P0, P1, P2, and P3 respectively : average plant height 26,30; 26,86; 29,64; and 26,03; cm. Average number of leaves 5,66; 6,24; 5,91; and 5,77; leaves. Average of poll 14,69; 19,57; 19,39; and 17,52; polls. Average productivity of fresh weight 17,86; 25,69; 25,97; and 18,80; ton/ha/harvest. Average oven dry weight productivity 8,28; 12,47; 14,60; and 10,96; ton/ha/harvest. The results of the study concluded that giving of cow urine up to 1 l/m² doses has no effect on the productivity of Setaria grass.

Keywords: Setaria grass, productivity, urine cow.