

ABSTRAK

PENGARUH URIN SAPI TERHADAP TINGGI TANAMAN, BIOMASSA, KADAR ADF (*Acid Detergent Fiber*) DAN KADAR NDF (*Neutral Detergent Fiber*) FODDER JAGUNG

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Penelitian ini bertujuan untuk mengetahui pengaruh level dan level terbaik pemberian urin sapi terhadap tinggi tanaman, biomassa, kadar ADF (*Acid Detergent Fiber*) dan Kadar NDF (*Neutral Detergent Fiber*) fodder jagung. Penelitian ini dilaksanakan pada 27 Februari 2025 – 21 Mei 2025, pemeliharaan fodder jagung dilaksanakan di Rumah Kaca Laboratorium Lapang Terpadu, Fakultas Pertanian, Universitas Lampung dan analisis Van Soest di Laboratorium Ilmu dan Teknologi Pakan, Departemen Ilmu Nutrisi dan Teknologi Pakan, Institut Pertanian Bogor. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) dengan 5 perlakuan level urin yang berbeda selama 14 hari dan 4 ulangan. Perlakuan yang diberikan yaitu, P0: Kontrol (penyiraman tanaman dengan air 800 ml), P1: 5% urin sapi, P2: 10% urin sapi, P3: 15% urin sapi dan P4: 20% urin sapi. Peubah yang diamati adalah tinggi tanaman, biomassa, kadar ADF (*Acid Detergent Fiber*) dan kadar NDF (*Neutral Detergent Fiber*) fodder jagung. Data yang diperoleh diuji dengan analisis ragam pada taraf 5% dan bila terdapat pengaruh nyata dilakukan Uji Beda Nyata Terkecil (BNT). Hasil penelitian menunjukkan bahwa, pemberian urin dengan level 5%, 10%, 15% dan 20% pada fodder jagung berpengaruh sangat nyata ($P < 0,01$) terhadap tinggi tanaman, NDF fodder jagung dan tidak berpengaruh nyata ($P > 0,05$) terhadap biomassa dan ADF fodder jagung.

Kata Kunci: Fodder jagung, tinggi fodder jagung, biomassa fodder jagung, ADF (*Acid Detergent Fiber*), NDF (*Neutral Detergent Fiber*), urin sapi.

ABSTRACT

THE EFFECT OF COW URIN ON PLANT HEIGHT, BIOMASS, ADF (Acid Detergent Fiber) LEVELS AND NDF (Neutral Detergent Fiber) LEVELS OF CORN FODDER

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This study aims to determine the effect of the level and the best level of cow urin administration on plant height, biomass, ADF (Acid Detergent Fiber) levels and NDF (Neutral Detergent Fiber) levels of corn fodder. This study was conducted on February 27 2025 – May 21 2025, corn fodder maintenance was carried out in the Integrated Field Laboratory Greenhouse, Faculty of Agriculture, University of Lampung and Van Soest analysis in the Laboratory of Feed Science and Technology, Department of Nutrition Science and Feed Technology, Bogor Agricultural University. This study used a Completely Randomized Design (RBD) with 5 different urin level treatments for 14 days and 4 replications. The treatments given were, P0: Control (corn fodder watering with 800 ml of water), P1: 5% cow urin, P2: 10% cow urin, P3: 15% cow urin and P4: 20% cow urin. The variables observed were height, biomass, ADF (Acid Detergent Fiber) content and NDF (Neutral Detergent Fiber) content of corn fodder. The data obtained were tested using analysis of variance at the 5% level and if there was a significant effect, the Least Significant Difference Test (LSD) was carried out. The results showed that giving urin at levels of 5%, 10%, 15% and 20% to corn fodder had a significant effect ($P < 0.01$) on the plant height, NDF of corn fodder and had no significant effect ($P > 0.05$) on the biomass and ADF of corn fodder.

Keywords: Corn fodder, corn fodder height, corn fodder biomass, ADF (Acid Detergent Fiber), NDF (Neutral Detergent Fiber), cow urin.