

**PENGARUH UMUR PANEN FODDER JAGUNG (*Zea mays*) TERHADAP
PRODUKSI BERAT SEGAR, BERAT KERING, KANDUNGAN
PROTEIN KASAR, VITAMIN A DAN VITAMIN E**

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INTISARI*)

Penelitian ini dilakukan dengan tujuan mengetahui “Pengaruh Umur Panen terhadap Produksi Berat Segar, Berat Kering, Kandungan Protein Kasar, Vitamin A dan Vitamin E Fodder Jagung”. Penelitian dilakukan di Dusun Karanglo Argomulyo Sedayu Bantul untuk penanaman, analisis protein di Laboratorium Nutrisi dan Teknologi Ternak Prodi Peternakan Fakultas Agroindustri UMBY dan analisis vitamin A dan E di Laboratorium PAU UGM. Rancangan penelitian menggunakan Rancangan Acak Lengkap (RAL) pola searah dan pengolahan data dengan analisis variansi yang dilanjutkan dengan uji *Duncan's New Multiple Range Test* (DMRT) menggunakan SPSS Statistik 22. Materi penelitian berupa 900 g jagung yang kemudian dibagi menjadi 3 perlakuan (P) yaitu P1: umur pemanenan 8 hari, P2: umur pemanenan 12 hari, P3: umur pemanenan 16 hari. Setiap perlakuan dilakukan pengulangan sebanyak 3 kali. Jagung direndam selama 24 jam kemudian ditebar pada 9 nampan dan dilakukan penyiraman sebanyak 2 kali sehari. Setelah penanaman selesai fodder jagung ditimbang dan dilakukan analisis kadar air, protein kasar, vitamin A dan E. Hasil penelitian menunjukkan rerata produksi berat segar pada P1; P2 dan P3 berturut-turut adalah 507; 615 dan 723 g. Rerata produksi berat kering pada P1; P2 dan P3 berturut-turut adalah 18,33; 31,53 dan 38,83 g. Rerata protein kasar pada P1; P2 dan P3 berturut-turut adalah 16,5; 21,81 dan 19,67 %. Rerata vitamin A pada P1; P2 dan P3 berturut-turut adalah 1399,65; 2445,81 dan 5216,63 µg. Rerata vitamin E pada P1; P2 dan P3 berturut-turut adalah 185,07; 214,18 dan 266,83 mg. Berdasarkan analisis variansi menunjukkan bahwa perlakuan umur panen berpengaruh nyata terhadap produksi berat segar, berat kering, kandungan protein kasar, vitamin A dan vitamin E ($P < 0,05$). Kesimpulan dari penelitian ini adalah fodder jagung terbaik terdapat pada umur panen 16 hari.

Kata Kunci : Fodder Jagung, Protein Kasar, Vitamin A, Vitamin E, Umur Panen.

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**THE EFFECT OF HARVESTING OF MAIZE (*Zea mays*) FODDER ON
FRESH MATTER, DRY MATTER PRODUCTION, CONTENT OF
CRUDE PROTEIN, VITAMIN A AND VITAMIN E**

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ABSTRACT*)

The research was conducted with the aim of knowing "The Effect of Harvest Age on Production of Fresh Matter, Dry Matter, content of Crude Protein, Vitamin A and Vitamin E of Maize Fodder". The research was conducted in Karanglo Argomulyo Sedayu Village, Bantul for planting, protein analysis at the Laboratory of Animal Nutrition and Technology of Animal Husbandry Study Program, Faculty of Agroindustry, UMBY and analysis of vitamins A and E at the PAU UGM Laboratory. The research design used Completely Randomized Design (CRD) one way pattern and data processing with analysis of variance followed by Duncan's New Multiple Range Test (DMRT) using SPSS Statistic 22. The research material was 900 g of corn which was then divided into 3 treatments (P) namely P1: harvesting age 8 days, P2: 12 days of harvesting, P3: 16 days of harvesting. Each treatment was repeated 3 times. Corn is soaked for 24 hours then stocked on 9 trays and watered 2 times a day. After planting, the maize fodder was weighed and analyzed for water content, crude protein, vitamins A and E. The results showed the average fresh matter production at P1; P2 and P3 are 507, respectively; 615 and 723 g. Average dry matter production at P1; P2 and P3 respectively are 18.33; 31.53 and 38.83 g. Crude protein mean at P1; P2 and P3 are 16.5, respectively; 21.81 and 19.67%. Mean vitamin A at P1; P2 and P3 are 1399.65, respectively; 2445.81 and 5216.63 g. Mean vitamin E at P1; P2 and P3 respectively were 185.07; 214.18 and 266.83 mg. Based on the analysis of variance, it was shown that the treatment at harvest had a significant effect on the fresh matter production, dry matter, content of crude protein, vitamin A and vitamin E ($P < 0.05$). The conclusion of this study was that the best maize fodder was found at 16 days of harvest.

Keywords: Maize Fodder, Crude Protein, Vitamin A, Vitamin E, Harvest Age.

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