

**PENGARUH PENAMBAHAN TEPUNG JAGUNG DENGAN LEVEL
YANG BERBEDA TERHADAP KUALITAS FISIK SILASE JERAMI
JAGUNG (*Zea mays* L.)**

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INTISARI*)

Penelitian ini bertujuan untuk mengetahui pengaruh penambahan tepung jagung dengan level yang berbeda terhadap kualitas fisik silase jerami jagung (*Zea mays* L). Nilai pH silase jerami sebagai pakan alternatif untuk memenuhi kebutuhan pakan ternak pada saat musim kemarau. Penelitian ini dilaksanakan pada tanggal 26 Mei Sampai 20 Juli 2019 di Laboratorium Nutrisi, Fakultas Agroindustri, Universitas Mercu Buana Yogyakarta. Metode yang digunakan adalah metode eksperimen menggunakan Rancangan Acak Lengkap (RAL) pola searah dengan dengan 4 perlakuan, masing masing perlakuan diulang 3 kali yaitu P0 tanpa tepung jagung, P1 ditambah tepung jagung 10%, P2 20% dan P3 30%. Variabel yang diamati adalah kualitas fisik (tekstur, bau, warna, jamur dan pH). Data hasil penelitian dianalisis dengan analisis variansi dan untuk mengetahui perbedaan diantara perlakuan dilakukan uji lanjut yaitu *Duncan's Multiple Range Test* (DMRT). Hasil penelitian menunjukkan rata-rata uji kualitas fisik adalah sebagai berikut : tekstur P0 (3,9), P1 (4,0), P2 (4,0) dan P3 (4,4) warna P0 (2,9), P1 (3,4) P2 (3,5) dan P3 (3,6), jamur P0 (3,3), P1 (3,3) P2 (3,8) dan P3 (3,8). Analisis kadar pH adalah P0 (5,0), P1 (4,7) P2 (3,8) dan P3 (3,2). Akan tetapi perlakuan penambahan tepung jagung berpengaruh tidak nyata ($P>0,05$) terhadap aroma P0 (3,9), P1 (3,7), P2 (3,8) dan P3 (4,0). Dari hasil penelitian dapat disimpulkan bahwa penambahan tepung jagung 30% menghasilkan kualitas fisik silase jerami jagung terbaik.

Kata kunci : Jerami jagung, kualitas fisik, silase, tepung jagung. .

*) Intisari skripsi Sarjana Peternakan, Program Studi Peternakan, Fakultas Agroindustri, Universitas Mercu Buana Yogyakarta, 2019.

**THE EFFECT OF DIFFERENT LEVEL CORN MEAL ADDITION
ON PHYSICAL QUALITY OF CORN (*Zea mays* L.) STRAW
SILAGE**

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ABSTRACT*)

This study aims to determine the effect of different level corn meal addition on physical quality of corn (*Zea mays* L.) straw silage. As an pH corn meal alternative feed to meet animal feed needs during the dry season. This research was conducted on May 26 to July 20, 2019 at the Nutrition Laboratory, Faculty of Agro-industry, Mercu Buana University Yogyakarta. The method used was the experimental method using a completely randomized design (CRD) one way pattern with 4 treatment, each treatment to repeated 3 times, namely P0 without corn meal, P1 plus 10% corn flour, P2 20% and P3 30%. The variables discussed were physical quality (texture, odor, color, fungi and pH). The results of the research data were analyzed by analysis of variance if there is a difference between treatments followed by Duncan Range Test (DMRT) was carried out. The results showed the average physical quality test as follows: textures P0 (3.9), P1 (4.0), P2 (4.0) and P3 (4.4), smell P0 (3.9), P1 (3.7), P2 (3.8) and P3 (4.0) colors P0 (2.9), P1 (3.4) P2 (3.5) and P3 (3.6), fungi P0 (3.3), P1 (3.3) P2 (3.8) and P3 (3.8). Analysis of pH levels was P0 (5.0), P1 (4.7) P2 (3.8) and P3 (3.2). However, it was proven not significant ($P > 0.05$) on the aroma P0 (3.9), P1 (3.7), P2 (3.8) and P3 (4.0). From the research results it can be concluded that the addition of 30% corn meal produces the best physical quality of corn straw silage.

Keywords : Corn straw, physical quality, silage, corn meal.

*) Abstract from Thesis of Animal Husbandry, Animal Husbandry Study Program, Faculty of Agroindustry, Mercu Buana University Yogyakarta, 2019.