THE EFFECT OF CORN MEAL ADDITION ON CHEMICAL QUALITY OF ELEPHANT GRASS SILAGE

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ABSTRACT*)

This study aims to find out the effect of corn meal addition on the chemical quality of silage of elephant grass. The study was conducted from February 17, 2018 to May 14, 2018 at the Laboratory of Animal Husbandry and Chemistry, Faculty of Agro-Industry, Mercu Buana Yogyakarta University. This study used a Completely Randomized Design (CRD) with one way pattern, the treatment used was consisting of 4 levels of corn meal (P1 0%, P2 3%, P3 6% and P4 9%), each treatment was repeated three times. Data were analyzed using Analysis of Variance (ANOVA), if there were significant differences, it was followed by Duncan's New Multiple Range Test (DMRT) test. The variables observed were the water content, crude protein content, ether extract, crude fiber content, ash content and nitrogen free extract. The results showed the level of addition of corn meal had a significant effect (P <0.05) on the protein content of fat content, fiber content, ash content and nitrogen free ekstrak. But it has no significant effect (P> 0.05) on water content. Based on the result of the study it can be concluded that the addition of 9% corn meal produced the best chemical quality of elephant grass silage.

Key word: Elepant grass, chemical quality, silage, corn meal.

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