



## **PHYSICAL QUALITY OF BASED ON CORN WASTE SILAGE AND DIFFERENT CORN FLOUR LEVEL**

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### **ABSTRACT**

*Almost in every region of Indonesia was concerned with the high cost of feed resources for livestock, coupled with its rare presence in the dry season, especially grass. Silage was able to provide opportunities source of feed. It was hoped that with the treatment of fermented corn peel and Corn Straw can solve the problem. The objective of the research was to determine the effect of corn flour addition to the physical quality of odor, the presence of fungus, pH, colour, flavors and texture of Corn Peel and Corn Straw silage (*Zea mays L*). The experimental method used was Completely Randomized Design Factorial pattern (3x3) with 3 replications is Factor A was a combination of 100% corn peel, 50% corn peel and 50% corn straw, 100% corn straw. Factor B was 0% corn flour, 5% corn flour, 10% corn flour. The results showed that the combination of material type highly significant effect ( $P < 0.01$ ) on the physical quality of fungi presence (none), pH (3.30-4.19), colour (yellowish green), Flavor (slightly acid), texture (medium) and non significant effect on odor ( $P > 0.05$ ). The addition of corn flour had a highly significant effect ( $P < 0.01$ ) on the presence of mushrooms (none), colour (yellowish green), flavour (slightly acid), texture (medium) and no significant effect on odor, pH ( $P < 0.05$ ). The interaction occurs between was a combination with addition of different corn flour against silage seen from colour (yellowish green), flavor (slightly acid), texture (medium). The best treatment was found in 100% corn straw material with 10% corn flour addition seen from excellent physical quality.*

**Keywords:** *Physical Quality, Corn waste, Silage, Corn flour, Combination of material type.*

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