

**THE EFFECT OF BURITI OIL (*Mauritia flexuosa* L.) AS A FEED
ADDITIVE ON FEED CONVERSION RATIO AND FINAL WEIGHT
OF BROILERS EXPOSED TO HEAT STRESS**

Dara Mahardika Puspita Yuda

ABSTRACT

This study aims to identify the impact of buriti (*Mauritia flexuosa* L.) oil as a feed additive on the feed conversion ratio and final weight of broiler that were exposed to heat stress. Twenty broiler were used as subjects and divided into four treatment groups, namely K-, K+, P1 and P2. K- was kept on a normal environment temperature of $27\pm 2^{\circ}\text{C}$. K+ was exposed to heat stress $31\pm 1^{\circ}\text{C}$. P1 was exposed to heat stress $31\pm 1^{\circ}\text{C}$ with an addition of 2% Buriti oil and the last treatment group P2 was exposed to heat stress $31\pm 1^{\circ}\text{C}$ with an addition of 4% Buriti oil. The treatment phase was started on the 22th to 35th day. Data were analyzed by *Analysis of Variance* (ANOVA). If a significant difference ($p<0.05$) were found, further data analysis would be conducted with the Duncan testing method. The result from this study shows significant results ($p<0.05$) on the feed conversion ratio. The smallest feed conversion ratio was shown by treatment group K- ($1,55^a\pm 0,09$), P1 ($1,77^a\pm 0,37$), P2 ($1,70^a\pm 0,12$), while the largest feed conversion ratio was shown by treatment group K+ ($2,31^b\pm 0,23$). The final weight (g) also shows significant results ($p<0.05$). The largest final weight (g) was found in treatment group K- ($1895,78^b\pm 82,91$), P1 ($1784,18^b\pm 201,22$), P2 ($1802,97^b\pm 81,40$) and the smallest final weight (g) was found in treatment group K+ ($1560,50^a\pm 11,37$). It can be conclude that the impact of buriti oil signifinally affects on the feed conversion ratio and final weight of broiler that were experimentally to heat stress.

Keywords : broiler, buriti oil, feed conversion ratio, final weight, heat stress