

ABSTRACT

Fitria, Nanik. 2011. The Influence of Use of Ketchup Pulp in the Rations as the Substitution of Soybean Oilcake on Feed Consumption, Body Weight Gain and Broiler Feed Conversion on Grower Period. Thesis Department of Biology, Faculty of Science and Technology, State Islamic University (UIN) of Malang Maulana Malik Ibrahim. Advisor I: Dra. Retno Susilowati, M.Si. Advisor II: Achmad Nashichuddin, M.A.

Key Words: Broiler, Pulp Soy Sauce, Feed Consumption, Body Weight Gain, Feed Conversion

The need of chicken meat as a source of animal protein increased along with rising incomes and awareness of the importance of nutritious food. Broiler is one of the selected alternatives in the effort to fulfill the needs of animal protein. To be able to reach the standard broiler production, required feed that has good quality and quantity. The poultry industry suffered the fall due to the price of feed are increasingly expensive because they still have to import. One alternative that can be used as cattle feed ingredients are the ketchup pulp because it has pretty good content of nutrients, especially protein amount of 20-27% . Moreover the utilization of soy pulp is also one of the efforts to avoid environmental pollution from the waste of soy sauce. This research aims to determine the effect of the use of soy sauce pulp on feed consumption, body weight gain and feed conversion of broiler .

This research is experimental by using Completely Randomized Design (RAL) with 4 treatments and 5 repetition. Data were analyzed by One Way Anova, if there is influence continued with the Smallest Real Difference test (BNT) 0.05. The treatment used is the soy sauce pulp as a substitute for soybean oilcake as much as 0%, 10%, 20% and 30% in the ration. Calculation of food remains done every day to determine feed consumption, body weight gain was calculated every week and feed conversion was calculated at the end of the research.

The results of research showed that the use of soy pulp as a substitute of soybean oilcake in the ration effect ($P < 5\%$) on feed consumption, body weight gain, broiler feed conversion . Average of feed consumption sequentially of P0, P1, P2 and P3 on the treatment was 2031.2; 2607.2; 2845 2848.4 gr / week. Average of body weight gain sequentially of P0, P1, P2 and P3 on the treatment was 1598; 1472; 1248 and 685 gr/week. Average of feed conversion sequentially of P0, P1, P2 and P3 on the treatment was 1.63, 1.94; 2.29 2.94. Pulp of soy sauce as a substitute for soybean oilcake in ration as much as 10% due to increase feed consumption, body weight gain and fix feed conversion of broiler.