SUBSTITUTION OF COMMERCIAL FEED WITH BANANA PEEL FLOUR AND FISH MEAL TOWARDS CONSUMPTION, WEIGHT GAIN, AND FEED CONVERSION RATE OF MALE PEKING DUCK

Stefani Wulan Sakti Handayani

ABSTRACT

This study aims to determine the effects of substitution of commercial feed with banana peel flour and fish meal towards feed consumption, weight gain, and feed conversion rate of male Peking duck. The experimental animals were 20 male Peking ducks, 3 weeks old. This study consisted of four treatments, P0 (fed with 100% commercial feed), P1 (fed with 95% commercial feed + 5% mixture of banana peel flour and fish meal), P2 (fed with 90% commercial feed + 10% mixture of banana peel flour and fish meal), and P3 (fed with 85% commercial feed + 15% mixture of banana peel flour and fish meal). The data were analyzed using one way ANOVA test followed by Duncan test. The results of this study states that the substitution of commercial feed with banana peel flour and fish meal provide significant effect on feed consumption and weight gain (P < 0.05), but didn’t provide significant effect on feed conversion rate (P > 0.05). The lowest feed consumption is owned by P1, the highest weight gain is owned by P3 with a weight gain of 22.90 grams/day, while the lowest feed conversion rate obtained at P3. Substitution of commercial feed with banana peel flour and fish meal can be applied to the male Peking duck until 15% without affecting their feed consumption, weight gain, and feed conversion rate.

Keywords: banana peel flour, fish meal, consumption, weight gain, feed conversion rate, Peking duck