

PENGARUH SUPLEMENTASI TEPUNG MAGGOT PADA PAKAN KOMERSIAL TERHADAP KINERJA PERTUMBUHAN AYAM BROILER

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INTISARI

Ayam broiler mampu menghasilkan daging dalam waktu singkat, untuk menunjang produktivitas yang optimal diperlukan pakan yang berkualitas. Maggot memiliki nilai nutrisi yang cukup tinggi sehingga berpotensi sebagai pakan alternatif. Penelitian ini dilakukan dengan tujuan untuk mengetahui pengaruh pemberian tepung maggot dalam pakan terhadap kinerja pertumbuhan ayam broiler. Penelitian ini berlokasi di peternakan ayam broiler, Terong, Kecamatan Dlingo, Kabupaten Bantul. Penelitian ini menggunakan 60 ekor *day old chick* (DOC) *strain Lohmann* yang dipelihara selama 33 hari. DOC ditimbang berat awalnya kemudian dikelompokkan secara acak ke dalam 4 perlakuan. Perlakuan tersebut adalah P0 (100% pakan komersial), P1 (5% tepung maggot + 95% pakan komersial), P2 (10% tepung maggot + 90% pakan komersial), dan P3 (15% tepung maggot + 85% pakan komersial). Data hasil penelitian dianalisis menggunakan *one way ANOVA* dengan *Statistical Package for Social Science* (SPSS). Perbedaan rerata diuji dengan *Duncant's Multiple Range Test* (DMRT). Penambahan pakan dengan tepung maggot pada level 5% dan 10% dapat meningkatkan konsumsi pakan, P1= 2797,5, P2= 2820,5. pertambahan bobot badan tertinggi pada level 5% dan 10% yaitu P1= 1643,27, P2= 1670,27. Bobot panen tertinggi pada level 5% dan 10% yaitu P1= 1690,67, P2= 1717,00. Konversi pakan berdasarkan hasil penelitian yaitu P0= 1,95, P1= 1,72, P2= 1,70 dan P3= 1,93. Hasil IOFC tertinggi pada pakan kontrol dan pakan perlakuan level 5% yaitu P0= 15.383,00, P1= 16.436,00. Hasil penelitian menunjukkan terjadi perbedaan nyata ($P < 0,05$) pada konsumsi pakan, pertambahan bobot badan, konversi pakan, biaya pakan, indeks performans, dan IOFC ayam dengan penambahan tepung maggot pada pakan ayam broiler pada level 5%, 10% dan 15%.

Kata kunci: Ayam Broiler, Tepung Maggot, Pakan Komersial, Pertumbuhan

THE EFFECT OF MAGGOT FLOUR SUPPLEMENTATION IN COMMERCIAL FEEDING ON THE GROWTH PERFORMANCE OF BROILER CHICKENS

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ABSTRACT

Broiler chickens are able to produce meat in a short time, to support optimal productivity, quality feed is needed. Maggots have quite high nutritional value so they have potential as an alternative feed. The research was conducted to determine the effect of maggot flour supplementation in feed on the growth performance of broiler chickens. The research was conducted at a broiler chicken farm, in Terong, Dlingo District, Bantul Regency. This study used 60-day-old chicks (DOC) of the Lohmann strain which were reared for 33 days. DOC was initially weighed and then randomly grouped into 4 treatments. The treatments are P0 (100% commercial feed), P1 (5% maggot meal + 95% commercial feed), P2 (10% maggot meal + 90% commercial feed) and P3 (15% maggot meal + 85% commercial feed). Research data were analyzed using one-way ANOVA with *Statistical Package for Social Science* (SPSS). Mean differences were tested using *Duncant's Multiple Range Test* (DMRT). The addition of maggot flour at levels of 5% and 10% increased feed consumption, with values of P1= 2797.5 and P2= 2820.5. The highest body weight gain was observed at 5% and 10%, with values of P1= 1643.27 and P2= 1670.27. The highest harvest weight at 5% and 10% was recorded as P1= 1690.67 and P2= 1717.00. Feed conversion based on the research results was P0= 1.95, P1= 1.72, P2= 1.70, and P3= 1.93. The highest Income Over Feed Cost (IOFC) was observed in the control feed and the treatment feed at the 5% level, with values of P0= 15,383.00 and P1= 16,436.00, respectively. The study results indicated significant differences ($P < 0.05$) in feed consumption, body weight gain, feed conversion, feed cost, performance index, and IOFC of broiler chickens with the aition of maggot flour at levels of 5%, 10%, an 15%.

Keywords: Broiler hickens, Maggot Flour, Commercial Feed, Growth