

PENGARUH PENGGUNAAN TEPUNG AZOLLA DALAM PAKAN TERHADAP PERFORMANS DAN KUALITAS KARKAS AYAM BROILER

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INTISARI

Penelitian selama lima bulan di Jurusan Nutrisi dan Makanan Ternak Fakultas Peternakan UGH bertujuan untuk mengetahui pengaruh penggunaan tepung Azolla dalam pakan dan jenis kelamin terhadap performans dan kualitas karkas ayam broiler.

Seratus eriam puluh ekor ayaa broiler strain Hubbard berumur tujuh hari dibagi dalam lima perlakuan pakan yang mengandung tepung Azolla 0%, 5%, 19%, 15% serta 20% tepung Azolla, dengan ulangan delapan kali untuk tiap perlakuan. Penelitian ini disusun berdasar Randomized Completely filnnk Design (RCBD). Untuk analisis kimia daging sebagai blok adalah jenis kelamin dan lokasi otot yaitu paha dan dada dengan ulangan sebanyak 16 kali.

Basil penelitian menunjukkan bahwa penggunaan tepung Azolla dalam pakan ayam broiler tidak menunjukkan pengaruh terhadap kadar air daging, kadar lemak daging serta kadar protein daging sedangkan konsumsi pakan meningkat, pertambahan berat badan menurun, konversi pakan menunjukkan adanya kenaikan, persentase karkas dan perseritase lemak abdominal menunjukkan adanya penurunan ($P < 0,01$). Kadar lemak daging paha ayam jantan dan ayam betina menunjukkan hasil yang lebih tinggi ($P < 0,01$) dibanding kadar lemak daging dada. Kadar protein daging paha lebih rendah dan berbeda ($P < 0,01$) terhadap kadar protein daging dada, sedangkan kadar air tidak menunjukkan adanya perbedaan yang nyata.

Secara keseluruhan dapat dikatakan bahwa penggunaan tepung Azolla sebagai bahan pakan ternak akan menyebabkan penurunan performans dan kenaikan kualitas tetapi sampai aras 15% tidak menunjukkan perbedaan yang bermakna. Apabila hasil penelitian ini akan diterapkan bagi para peternak dirasa perlu adanya tinjauan dari segi ekonomi.

(Kata kunci: Tepung Azolla, Performans, Kualitas Karkas, Ayam Broiler)

THE EFFECT OF AZOLLA MEAL UTILIZATION IN RATION
ON THE PERFORMANCE AND CARCASS QUALITY
OF BROILER CHICKEN

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ABSTRACT

A five month experiment at the Nutrition and Animal Nutrition Department, Faculty of Animal Husbandry GMU was conducted to investigate the effect of Azolla meal utilization in the ration on performance and carcass quality of broiler chicken.

One hundred and sixty unsexed DOC broiler chicken of Hubbard strain at seven days old were used in the study, and were randomly divided into five ration treatments, namely 0%, 5%, 10%, 15% and 20% Azolla meal with eight replications. The statistical analysis were done by using analysis of variance from RCBD design. For the chemical analysis of meat the block was sex and muscle location was thigh and breast with replication of 16 times.

The results indicated that there were no significant effects due to Azolla meal on water content, fat and protein contents, while the feed consumption increased, average of daily gain (ADG) decreased and feed conversion increased, carcass percentages and abdominal fat decreased significantly ($P < 0.01$). The fat content of thigh for male and female broiler was significantly higher ($P < 0.01$) than the fat content of breast muscle and the protein content of thigh was lower ($P < 0.01$) than the breast muscle. On the contrary, no significant difference for water content was obtained.

It was concluded that the Azolla meal utilization in broiler diet decreased the performances and increased the quality, but up to 15% level did not affect significantly. Should the results be applied to the farmer, it needs to be observed the economical calculation.

(Key Words : Azolla Meal, Performance, Carcass Quality, Broiler Chicken).

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