Performance of broiler chickens fed graded levels of poultry meat meal

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Target Audience: Poultry farmers, Animal nutritionist

Abstract

A 49 days experiment was carried out on the performance of broiler chickens fed poultry meat meal. 150 day old Arbor acre broiler chickens were divided into 5 dietary treatments of 3 replicates with 10 birds per replicate in a completely randomized design. Diet 1 had 100% fishmeal as the control (T1) while the poultry meat meal was added to diets T2, T3, T4, T5 at 25%, 50%, 75%, 100% replacing fishmeal respectively. The result obtained showed that the weight gained and average daily weight gained of broiler chickens fed Diet T5 (100) % had the highest mean (1624.33g/bird and 33.22g/bird). The breast, drumstick, thigh and the back cut showed that birds fed diet T5 had higher values than birds on other diets. There were significant differences (P<0.05) in the values of spleen, heart and lungs across the diets. There was progressive decrease in cost/kg of feed with increase in inclusion of poultry meat meal: T2 (₦182.20), T3(₦179.20), T4(₦176:20), T5(₦173:20). The cost of feed consumed and cost of production showed that it was costlier to produce birds on T1 than birds on other diets with T5 having the least cost and highest revenue (₦1756.67) and gross margin (₦906.86). It was concluded that the inclusion of poultry meat meal in broiler diet improved growth, higher carcass yield and enhanced economic values. Therefore, T5 (100%) total replacement of fishmeal with poultry meat meal is recommended.

Key words: poultry meat meal, broiler, fish meal