

"Garden City 2013" NIGERIAN SOCIETY FOR ANIMAL PRODUCTION (NSAP)









THEME

ANIMAL AGRICULTURE: A TOOL FOR SUSTAINABLE ECONOMIC TRANSFORMATION

DATE: 17TH - 20TH MARCH, 2013

HELD AT:

DEPARTMENT OF ANIMAL SCIENCE
FACULTY OF AGRICULTURE
RIVERS STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY,
PORT HARCOURT.

Edited by: B. M. Oruwari, J.P. Alawa,

U.I. Oji, O. J. Owen and O. S. George

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ISBN: 1596-5570

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THE GROWTH PERFORMANCE AND SLAUGHTER CHARACTERISTICS OF GUINEAFOWLS (Numidea meleagris galeata) FED MALTED NEGRO COFFEE (Senna occidentalis) SEED MEAL

Y.S. Kudu, B.A. Ayanwale, A. Aremu, M.J. Ibrahim, A.A. Malik and Y.K. Salau. Department of Animal Production, Federal University of Technology Minna E-mail: yaskudus@yahoo.ca.

ABSTRACT

The study was carried out to determine the growth and carcass characteristics of wild guinea fowl (Numido meleagris galeata) fed graded levels of malted Negro coffee (Senna occidentalis) seed meal. One hundred and ninety day old guinea fowl keets were randomly allotted to four different dietary treatment groups of 45 birds each. Each treatment group was further replicated three times with 15 birds per replicate. The treatments were designed as T1, T2, T3, and T4 representing 0, 6.5, 13.50 and 19.5 % Malted Senna occidentalis Meal (MSOM) at the starter phase (0-10 weeks) and 0, 5.5, 11.0 and 16.5 % at the finisher phase (11-20 weeks) respectively. At the end of the 20th weeks, two birds each from each replicate were slaughtered to measure their slaughter characteristics. The results of the experiment revealed that only the final live weight, showed a significant difference (p<0.05) between treatment groups. No significant difference (p>0.05) was observed in the slaughter weight, de-feathered weight. eviscerated weight and the dressed weight. Therefore, MSOM can be included up to 11.0 % level in the diet of guinea fowl without any detrimental effect on the growth and slaughter characteristics.

INTRODUCTION

The ever increasing demand for animal protein for the present and future population of people living in the developing countries has been an issue of governments, concern to nutritionists, individuals in recent years. The protein consumption level in Nigeria is about 27 g less than the minimum requirement of 35g recommended by the National Research Council of the United States of America (NRC, 1998). Going by the current Nigerian population of over 140 million (NPC, 2006), to meet the recommended 35 g of animal protein-per person per day, an average meat supply of 4.9 million Kilograms per day will be required. Lack of adequate ingredients and high cost of poultry birds has created the need for research into alternative feed ingredients that have high nutritive value and are readily available. However, most plant legumes such as Negro coffee (Senna occidentalis), contain

antinutritional factors (ANF) like trypsin inhibitors, cyanides, phytic acids and tannins that limit their use in monogastric diets. Presently, negro coffee is not in use as a source of protein in poultry production. (Kudu et al., 2010). The guinea fowl is widely distributed in the tropical guinea savanna area of Africa. In Nigeria, millions of eggs of this indigenous bird are wasted away during the annual bush burning. It is my considered opinion that these eggs can be collected from the wild, hatched and

turned into a useful source of protein as well as income for the local farmers. 18) TO 815 W 154

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MATERIALS AND METHODS

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The eggs were collected from the wild, and incubated according to the method adopted by Kudu et al. (2010). The malting of the seeds were done using the method of Kakati et al. (2010). After malting, the seeds were sun dried and milled into Senna occidentalis seed Meal (MSOM). Some of the malted seeds were analyzed to determine the levels of anti-nutritional factors still present using the method of Latta and Eskin (1980) to analyze for phytic levels, while a modified method of AOAC (2000) adopted by Onwuka (2005) to analyze for tannin, trypsin inhibitors and saponin was used (Table 1). The proximate analysis of the feed was done using AOAC (2000) analytical methods (Table 3). Eight diets were formulated during the starter phase and the finisher phase. In the starter phase, diet 1 (T₁) was designed as the control with 0% MSOM (Malted Senna occidentalis Meal), diet 2 (T2) contained 6.5% MSOM, diet 3 (T₃) contained 13.0% MSOM and diet 4 (T₄) contained 19.5% MSOM respectively. While in the finisher phase, diet 1 (T1) MSOM diet 2 (T₂) contained 5.5% MSOM, diet 3 (T₃) contained 11.0% and diet 4 (T₄) The dietary contained 16.5% respectively. composition of the experimental diets for both the starter and the experimental diets for both the 2. starter and the finisher phases are shown in Table 2.

RESULTS AND DISCUSSION Table 1 shows the effect of malting on some of the Table 1 some of the anti-nutritional factors present in the malted seed, with tannin and trypsin inhibitors having the highest level of reduction, Similar results was obtained by Yakubu (2008). Table 2 shows the composition of experimental diets of guinea fowl containing malted Senna occidentalis meal at starter and grower phases respectively. Table 3 shows the initial weight, final live weight, slaughtered weight, de-feathered weight, eviscerated weight and dressed weight. It was observed that there was significant difference (p<0.05) in the final live weight with T2 having the highest value and T4 having the lowest value but there were no significant difference (p>0.05) in the other parameters measured. ·The average eviscerated weight which was 71.90% and the average dressed weight which was 66.84% was in agreement with (Ayeni, 1983) who stated that Guinea fowl on slaughtering has an eviscerated yield of over 80% and a yield of edible carcass of between 50-80%. Similar results have been reported by Kudu (1998). The result of the final live weight showed a significant difference (p<0.05) between treatment groups, while the result of other parameters such as: the slaughtered weight, de-feathered weight, eviscerated weight, and dressed weight were not significantly different (p>0.05) between the dietary treatment.

CONCLUSION

Based on the results obtained from the experiments, it was observed that the guinea fowls showed no significant (P>0.05) response to most of the parameters at different levels of dietary inclusion of Malted Senna occidentalis meal (MSOM) except for the final live weight where significant difference (P<0.05) was observed.

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Biology and Management of Grey Breasted Guinea Fowl (Numida meleagris galeata

Table 1: Anti-nutritional factors of raw and malted Senna occidentalis seeds

| - Anti-nutritional i | actors of | | %Reduction | 11. 性上上的上面上的CE; 21 |
|--|--------------------------|---------------------------------|----------------------------------|--------------------|
| Anti-Nutritional Factor Phytic acid (mg/100g) Tannin (g/kg) Cyanide (mg/100g) Trypsin inhibitor (g/kg) | 503.10 25.64 18.07 | 289.43 40.50 8.84 9.39 | 42.47 84.20 48.99 74.51 | |

Ayeni, T.A. Aire, Olomu, J.M. Published by Kainji Lake Research Institute Press, New Bussa, Nigeria. Pp. 10-13.

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Table 2: Composition of experimental diets of guinea fowl containing malted Senna occidentalis meal at starter and finisher phases.

| lenoit Bunifile | amos bes | ב בכוונו ר. | Level | of malted. | Senna occidentalis meal (%) |
|---|--|--|---|--|---|
| lo empublica la desta briefa) | e paleron in Si restate) | tarter ph | nase | | Finisher phase |
| Ingredients | (Hoppium on bodine | T ₂ | T ₃ | T ₄ | Ti 29251 2 15 WOTH BOOK TO LIEL 15 JEST STRUMBERS |
| Maize GNC MSOM Maize bran Premix Fish meal Bone meal Palm oil Lysine Methionine TOTAL | 44.70 41.70 0.00 5.00 0.25 4.00 2.50 0.30 1.10 0.45 100 | 40.31 39.64 6.50 5.00 0.25 4.00 2.50 0.30 1.10 0.45 100 | 36.11 37.33 13.00 5.00 0.25 4.00 2.50 0.30 1.10 0.45 100 | 31.93 35.02 19.50 5.00 0.25 4.00 2.50 0.30 1.10 0.45 100 | 55.13 52.02 48.47 44.46 31.30 28.88 26.93 25.44 0.00 5.50 11.00 16.50 5.00 5.00 5.00 5.00 0.25 0.25 0.25 0.25 4.00 4.00 4.00 4.00 2.50 2.50 2.50 2.50 0.30 0.30 0.30 0.30 1.10 1.10 1.10 1.10 0.45 0.45 0.45 0.45 100 100 100 100 |
| Calculated and Energy (Kcal/K Crude protein | (g) 2995 | 2945 26.00 | 2968 26.00 | 2972 26.00 | 3010 3039 3060 3075 22.16 21.99 21.99 22.18 - 200445 214 inclusion at starter and finisher phases: T ₂ = 6.5% & |

MSOM= Malted Senna occidentalis Meal; GNC= Groundnut Cake; T₁= 0%MSOM inclusion at starter and finisher phases; T₂= 6.5% & 5.5%MSOM inclusion at starter and finisher phases; T₄= 19.5% & 16.5%MSOM inclusion at starter and finisher phases.

Table 3: Performance and carcass characteristics of guinea fowls fed graded levels of malted Senna occidentalis meal (finisher phase)

| Parameters | mis T1 | T2 | T3 | T4 | SEM |
|--|---------------------------|-------|-------------------|-------------------|------------------|
| handineters Insmanuos 188811 lanuo: | car Cdales established | 464A | me alicas | politiment | unification allu |
| Initial body weight (g) | 33.03 | 33.02 | 33.01 | 33.03 | 0.01 |
| Final live weight (Kg) | 1.12 ^b | 1.22ª | 1.20 ^a | 1.10 ^b | 20.59 |
| Slaughtered weight (%) De-feathered weight (%) Eviscerated weight (%) Dressed weight (%) | 91.10 | 89.75 | 89.58 | 86.36 | 0.89 |
| | 84.59 | 84.28 | 84.49 | 80.91 | 1.57 |
| | 73.36 | 71.25 | 72.33 | 70.68 | 1.38 |
| | 68.21 | 65.86 | 67.51 | 65.80 | 1.34 |

a,b: Means denoted by different superscript along the same row are significantly different(P>.05).

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