

Impact of Amaranthuscaudatus leaf meal on blood profile, internal organs and carcass characteristics of rabbit bucks

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Abstract:

Some authors have proposed that Amaranthus caudatus leave can enhance the formation of the haemoglobin and improves blood profile. Also, Amaranthus caudatus leave is high in energy, protein, carbohydrates, fat, vitamins, minerals and other trace elements. Thus, a Completely Randomized Design Experiment (CRD) was conducted to investigate the blood profile, internal organs and carcass characteristics of New Zealand White rabbit bucks fed Amaranthus caudatus LeaveMeal (ACLM). The treatments designated treatment 1 (T1), treatment 2 (T2) and treatment 3 (T3) having 12 rabbits each were replicated 3 times with 4 rabbits per replicate. The age of the rabbitswas 3 to 4 months, and they weighed approximately 2.56 kg.Three diets formulated with ACLM and supplemented at 0, 10 and 20g/kgfeed were fed to rabbits in the respective treatments. Data were collected forhaematology, serology, internal organs and carcass characteristics of the rabbit bucks. Data collected on different parameters were subjected to analysis of variance (ANOVA). Results showed that significant increases (P<0.05) were observed on the Red blood cell (T15.19; T2 6.20; T3 7.88 x10 6/mm3), White blood cell (T1 6.01; T2 8.03; T3 11.32 x109/mm3), total protein (T1 5.62; T2 6.55; T3 6.59g/dl), Glucose (T1 69.06; T2 71.20; T3 73.90mg/dl), Urea (T1 22.15; T2 25.77; T3 25.83mmol/l), Heart (T1 0.46; T2 0.54; T3 0.56%), Dressed percentage (T1 51.90; T2 54.41; T3 54.90%), Shoulder (T1 3.61; T2 4.04; T3 4.05%) and Forearm (T1 3.13; T2 3.49; T3 3.44%) following supplementation of ACLM. The serum total cholesterol significantly decreased (T1 106.34mg/dl; T2 90.05mg/dl and T3 95.97mg/dl) as the level of supplementations increased. Thus, supplementation of ACLM at 10g/kg and 20g/kg on the diets of rabbit bucks improved some haematology, serum biochemistry parameters, internal organs and carcass characteristics of the rabbit bucks.



Biography:

Mr. Wisdom Amaduruonyeis an assistant lecturer in the Department of Animal Breeding and Physiology, Michael Okpara University of Agriculture, Umudike, Abia State, Nigeria. He was born at Okpuala Ekere Nvosi in Isiala Ngwa South, Abia State Nigeria. He obtained a B.Agric Degree in Animal Science from Federal University of Technology, Owerri, Imo State Nigeria, in 2010, and M.Sc. in Animal Physiology from the Department of Animal Breeding and Physiology, Michael Okpara University of Agriculture, Umudike Abia State, Nigeria in 2016. He is a member of Animal Science Association of Nigeria and Nigerian Institute of Animal Science. Currently, he is doing a doctorate degree in Animal Physiology with specialization in Reproductive Physiology.

Speaker Publications:

1. Impact of Aspilia africana on Semen and Testicular Characteristics of Rabbit Bucks, January 2019

2. Effect of abattoir wastes on selected soil properties in a . And ezzamgbo south-eastern Nigeria, June 2020

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