Effect of dietary calcium level on egg production and eggshell quality in broiler breeder hens from 36 to 60 weeks of age
ABSTRACT: This study was conducted to evaluate the effects of different calcium (Ca) levels in diet on shell quality and egg production of broiler breeders. Calcium (3.8 g Ca/hen/day) seems to be adequate to support egg production and improving eggshell quality of broiler breeders.

Keywords: Calcium, egg production, eggshell quality, egg weight, phosphorus.
Effect of breed, sex and source within breed on the haematological parameters of the Nigerian goats.
Effect of breed, sex and source within breed, together with their interactions on the haematological parameters of ... 23.04±3.56, and 29.22±4.76 (%PCV); 7.52±0.50, 7.82±1.25 and 9.48±1.60 (g/dl Hb); 2.71±0.23, 3.09±0.64, and 4.10±0.42 (x10^{12} l RBC); 11.94±1.10, 11.32±2.03 and 9.23±0.63 (x10^{9} cells/l WBC), and 83.22±1.67, 76.72±2.30 and 73.34±3.40 (x10^{6} /mm^{3} MCV), respectively. Significant differences (P<0.05) were observed between the breeds, but the platelets, MCH and MCV were not significantly different between the sexes. Despite the difference in sex, gender has no effect on the MCV and the values of 83.22±1.67x10^{6}, 76.72±2.30x10^{6} and 73.34±3.40x10^{6} /mm^{3} were observed for the SG, RSG, and WADG, respectively.

**Keywords:** Indices, red Sokoto goat, Sahel goat, West African Dwarf goat, haematology.

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**Effect of dietary corn silage replacement with sorghum silage on performance and feed cost of growing steers**

Tabatabaei, S.N., Kordnejad, E., Modarresi, M. and Tabeidian, S.A.

ABSTRACT: This experiment conducted to assess effects of dietary corn silage (CS) replacement with sorghum silage (SS) on performance and feed cost of growing beef steers supplemented with 40% of hay portion. The results showed that replacing 20%, 40% and 60% of CS by SS increased daily gain (474±11, 519±13 and 540±15 g/day, respectively) and decreased feed cost (13.24±1.01, 12.31±2.02 and 12.14±1.74 kg of feed/kg of gain, respectively). It is concluded that replacing 20% and 40% of CS by SS is recommended for replacement strategy. Dietary corn silage (CS) replacement with sorghum silage (SS) is recommended especially for high cost of CS due to the economic advantage in product prices.

**Key words:** Effect of weaner body weight on growth traits of rabbits

Oke, U.K., Herber, U., Obike, O.M. and Ogbonnaya, E.O.

ABSTRACT: Data from growth parameters and production traits of 108 ten-week old male rabbits comprising Newzealand white, Dutch and chinchilla were used to describe weaner body weight effects on growth traits. Body weight was the most significant factor (P<0.05) contributing to the total variability in body weight of Newzealand white Dutch and chinchilla rabbits. Body weight accounted for 70.65% of the total variability in growth traits.

**Keywords:** Weaner, body weight, growth traits and rabbits

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**Influence of dietary calcium levels on bone development in broiler breeder pullets up to 18 weeks of age**

Moreki, J.C., Van Der Merwe, H.J., and Hayes J.P.

ABSTRACT: The effects of three levels of dietary calcium on bone development in broiler breeder pullets up to 18 weeks of age were determined. It was found that increasing the dietary calcium content of the diet did not influence bone length, bone width, bone length to width ratio, bone area or bone breaking strength. Only bone breaking strength was significantly influenced by dietary calcium levels. Higher dietary calcium levels led to a reduction in bone breaking strength.

**Keywords:** Bone dimensions, bone strength, bone stress, calcium
Micronuclei profile: an index of chromosomal aberrations in freshwater fishes and 

Original Research, A06

Okonkwo, J.C., Obiakor, M.O. and Nnabude, P.C.


ABSTRACT:

Incidence of chromosomal aberrations in Synodontis clarias and Tilapia nilotica (Linnaeus 1757) were measured using the micronucleus assay. The organ used was black buffalo fish (Anambra River blood is appropriate as it allows collecting several samples from the same individuals, without having to sacrifice it.

Keywords: Micronucleus assay, chromosomal aberrations, Synodontis clarias, Tilapia nilotica,