

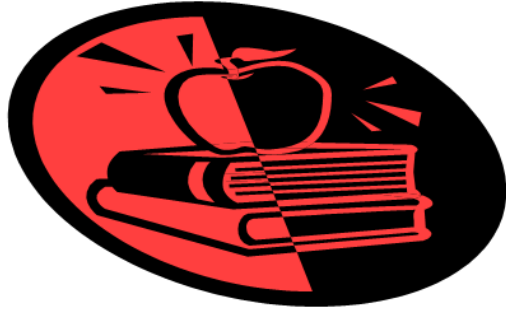
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**BY**

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# Some indigenous chicken types in Nigeria





# RESEARCH ACTIVITIES

- **CHARACTERIZATION OF THE NIGERIAN LOCAL CHICKEN IN KADUNA AND BENUE STATES OF NIGERIA**

## OBJECTIVES

- **To access the social/economic back ground of the respondents.**
- **To access the frequency of the different local chicken genotypes.**

# **COMPARING THE REPRODUCTIVE PERFORMANCE OF INDIGENOUS CHICKEN TYPES.**

## **OBJECTIVES**

- To compare the reproductive performance of indigenous chicken types.**
- To estimate the correlation between the reproductive parameters in the chicken types.**

# **COMPARATIVE EVALUATION OF NIGERIAN HEAVY AND LIGHT LOCAL CHICKEN ECOTYPES AND THEIR CROSSES FOR GROWTH AND EGG PRODUCTION TRAITS**

## **Objectives**

- ❖ To evaluate the performance of the heavy and light chickens and their crosses for growth traits under on-station management condition**
- ❖ To evaluate egg production characteristics of the various genetic groups.**
- ❖ To estimate heterosis for growth and egg production traits**

# **HAEMATOLOGICAL AND SEMEN QUALITY CHARACTERISTICS OF INDIGENOUS CHICKENS IN NIGERIA**

## **OBJECTIVES**

- To evaluate effect of age and sex on hematological parameters in the indigenous chickens.**
- To evaluate the effect of age on semen quality characteristics of cocks.**

# **EFFECT OF STORAGE METHOD AND TIME ON EGG QUALITY TRAITS OF NIGERIAN INDIGENOUS CHICKENS**

## **Objectives**

- **Determine the effects of storage method and holding period on egg quality characteristics of Nigerian indigenous chicken**
- **Comparing the internal and external egg quality traits of indigenous and exotic chickens (Rhode Island Red) under storage method and storage time.**



# Teaching Activities

**Curriculum review at undergraduate and post-graduate levels to include**

**1 Conservation of animal genetic resources**

**2 Animal Biotechnology**

**3 Scientific writing and oral presentation**

**4 Teaching with the use of projectors**



# Other Teaching Activities

Use of different teaching methods such as

- **Group discussion**
- **Buzz group**
- **Assignments**
- **Class presentation**
- **Field trips**
- **Computer lab. for statistical analysis**

# Outcomes of research

## Characterization of the indigenous chicken based on

- Plumage morphology**
- Reproduction**
- Growth and egg production**
- Egg quality traits**

# **New research proposals**

- **Molecular characterization of indigenous chicken of Nigeria.**
- **Genetic parameter estimates of plasma alkaline phosphatase and eight week body weight in indigenous chicken of Nigeria.**
- **Enhancing small holder Dairy goat production in Northern Nigeria through the application of biomarkers.**

# **Outcomes of teaching**

- **Students have been trained on scientific writing, oral presentation and use of visuals.**
- **The course materials were placed in libraries for students and staff use.**
- **Students now have research topics in the area of genetic engineering**
- **The use of visuals helped students to make contributions and ask questions.**
- **The students can make use of computer labs better.**
- **A combination of teaching methods improved teaching and learning.**

# Challenges

- **Low funding of research activities.**
- **Poor collaboration among researchers.**
- **Time allocated for a course is small for efficient use of different teaching methods.**
- **There is still problem in handling some statistical packages e. g ASREML etc.**

# **Solutions to problems**

- **ILRI/SLU/FAO to liase with ARCN/NACGRAB on possible collaboration and joint funding of research on AnGR.**

# **Suggested livestock record/ technology**

- **Open nucleus breeding scheme (OBNS)**
- **Breed organizations/societies**
- **Central recording station/analysis of data**

# **SUGGESTED COLLABORATORS**

- **Ghana**
- **Sierra Leone**
- **Côte d'Ivoire**



# **OTHER ISSUES ON AGB**

- **National and Regional Training workshop for students and other researcher.**
- **Visiting lecturers for exchange of ideas.**
- **Field trip to other institutions by students.**

# **National Institutions involved in conservation of Animal Genetic Resources**

- **Nigerian Conservation Foundation (NCF)**
- **National Centre for Genetic Resources and Biotechnology (NACGRAB)**
- **Agricultural Research Institute of Nigeria (ARCN)**
- **National Animal Production Research Institute (NAPRI)**
- **Nigerian Universities with Faculties of Agriculture**

# ***Present collaborators***

- **NCF and NACGRAB are planning to collaborate in the area of conservation of the genetic resources (both plants and animals) of Nigeria.**

## ***Objectives***

- **to ensure the sustainable use of these rich biodiversity through research and development.**
- **Collate data on indigenous plants and animals, especially those of economic and conservation importance.**
- **Development of a joint concept for Nigerian fauna gene pool to further enhance the genetic database of NACGRAB.**
- **wildlife flora gene base development, especially those of economic importance.**
- **Internship development program .**



## **Other collaborators**

**ARCN is currently collaborating with the following on Agricultural research.**

- ❖ All Agricultural research institutes of Nigeria**
- ❖ Nigerian Universities with Faculties of Agriculture**