



Intergrated Fish and Poultry Production Combined

Lawal WS^{1*}, Alu SO²

¹Department of Agricultural Technology, Kwara State College of Education, Ilorin, Nigeria

²Department of Biology, Kwara State College of Education, Ilorin, Nigeria

ABSTRACT

A privately ad libbed poultry house worked with unadulterated neighborhood material called bamboo and covered with dried treated grasses (rooftop) known as sana which housed 300 laying birds was worked close to 20 m × 20 m earthen fish lake with an underground spring water as wellspring of admission with a move through framework and supplied with a superior catfish *Clarias geripinus* adolescents 2000 in number. The floor of the poultry house was solidified to forestall spillages of water and for all time sought after with thick nylon white elastic and layer were put at significant level over the floor on top of bamboo tree having in the middle between them. The use of these holes made was to permit layers (chicken) dropping straightforwardly on the elastic which in the long run filled in as reproducing places for worm. The slimy parasite was gathered washed completely and handled to act as feed to the fishes. The handled parasite decreases around 40% of all out cost of feed in raising the fishes. The birds created 70 piecers of eggs each day 7½ containers and a box is sold for N 2,700 per box. The fish were gathered following six (6) months of loading with an all-out piece of 1,680 with a normal of 800 g (1344 kg) and is sold at N 1500 per kg. The income acknowledged dealt with both capital and intermittent expense with a functioning power of three (3) individuals. The analysis contribute fundamentally (P<0.05) in lessening the degree of destitution and furthermore add to food security, change plan of National administration of Nigeria.

Keywords: Maggot; Bamboo; *Clarias geripinus*; Juvenile; Treated grasses

INTRODUCTION

Poultry is the principal creating fragment of the horticultural area in Nigeria, Africa and to be sure all around the world. The expansion in poultry creation has upgraded the per capita accessibility of eggs and per kilogram of poultry meat per annum [1].

In Nigeria, the typical everyday utilization of 54 g protein with 6.5 g from creature source falls underneath the suggested day to day protein of 86 g and 8.4 g of protein from creature

source the explanation being the excessive expense of fish, chicken and its items attributable to significant expense of feed which represents 60-80% complete expense of creation [2].

The coordinated poultry-fish based cultivating gives gigantic open doors to improvising of a portion of the essential sources of info particularly takes care of so that cost is saved and benefit is worked on as strengthening pay for people strengthening and vocation security to country families.

Received:	04-January-2024	Manuscript No:	IPJASLP-24-18839
Editor assigned:	08-January-2024	PreQC No:	IPJASLP-24-18839 (PQ)
Reviewed:	22-January-2024	QC No:	IPJASLP-24-18839
Revised:	22-January-2025	Manuscript No:	IPJASLP-24-18839 (R)
Published:	29-January-2025	DOI:	10.36648/ 2577-0594.9.1.36

Corresponding author: Lawal WS, Department of Agricultural Technology, Kwara State College of Education, Ilorin, Nigeria, Tel: 8036011278; E-mail: awsl2004@ gmail.com

Citation: Lawal WS, Alu SO (2025) Intergrated Fish and Poultry Production Combined. J Anim Sci Livest Prod. 9:36.

Copyright: © 2025 Lawal WS, et al. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

The cultivating framework additionally offers open doors to these asset unfortunate families at pitiful monetary ventures and resolves the issues of ladies strengthening and occupation security at the grass root level. To support poultry business among ladies in rustic families to help terrace or serious grill creation and incubator/little poultry feed factories in the country regions and towns [3].

The essential purposes for unfortunate development of poultry creation in the vast majority of our towns and country regions is the availability to fundamental poultry needs like great feed mills, feed fixings and veterinary centers and in particular development of young people from rustic region to urban areas [4].

This sort of framework will get a sort of reusing farming among fishery and poultry will make occupations for the country individuals with least capital necessity to take off there by decreasing destitution and furthermore add to food security, change plan of Central legislature of Nigeria [5].

Justification

- Poultry faeces is created in enormous amount in each poultry homestead and this can cause aggravation.
- Greater part of the rustic individuals is jobless.
- One of the major inputs in poultry creation is land, which is promptly accessible in the provincial region.

Overview

- Fabricate both the poultry and fish lake on one another.
- Feed the fishes with poultry dropping.

MATERIALS AND METHODS

Site of examination: The trial was completed in the farming nursery if the division of horticultural innovation.

Development: A privately ad libbed poultry house worked with unadulterated neighborhood material called bamboo and covered with dried treated grasses (rooftop) known as sana which housed 100 laying birds was worked close to 20 m × 20 m earthen fish lake with an underground spring water as wellspring of admission with a course through framework and supplied with a superior catfish *Clarias geripinus* adolescents 2000 in number [6]. The floor of the poultry house was

solidified to forestall spillages of water and forever desired with thick nylon white elastic and layer were set at significant level over the floor on top of bamboo tree having in the middle between them. The use of these holes made was to permit layers (chicken) dropping straightforwardly on the elastic which at last filled in as rearing spots for parasite [7].

Sources of the juvenile: The juvenile was purchased from Ministry of Agriculture, fisheries section along Yidi road in Ilorin.

Sources of the layers: The source of layer was bought from, Affcom farm Kulende junction, Sango in Ilorin, the place of lay was permitted to appropriately begin laying.

Sources of feed ingredients: The couple of feed fixings that was utilized was bought from Gbemisola Feedmill house, Offa carport, Ilorin.

Egg collection: Egg was gathered ordinarily into containers straight around 4 pm, no arranging was finished and the egg was sold how it is picked.

Statistics analysis: Information like feed consumption, number of eggs gathered, identical measure of cash for the eggs gathered, every one of these was exposed to finish randomized plan.

RESULTS AND DISCUSSION

Each 300 laying (200) birds will be taken care of by a pack of feed which is 25 kg however the 300 birds that was utilized in the trial, 1½ a sack will be taken care of to them consistently, the **Table 1** underneath shows how much feed consumed when the worm is enhanced and this records for around 40% decrease of the feed they should consumed a day and this has radically diminished how much cash for keeping the laying birds while the creation rate is well above 65% or 70% in some circumstance, The fishes were gathered following six (6) months of loading with an all-out piece of 1,680 with a normal of 500 g (1344 kg) and is sold at N 1500 per kg [8-9]. The income acknowledged dealt with both capital and intermittent expense with a functioning power of three (3) individuals.

Table 1: Performance characteristics of poultry and fish combined production.

Months	1	2	3	4	5	6
Feed intake	7.5	7.9	7.5	7	7	7.1
Egg prod	2130	2100	2070	2130	2190	2130
No of crates	2.3	2.3	2.3	2.3	2.4	2.3
Equivalent amount of money (N)	1,06,500	1,05,500	1,03,500	1,06,500	1680	1,06,500
SEM	0.1	0.4	0.1	0.1	0.2	0.1

CONCLUSION

- The expense of feed has been decreased by 40%.
- Egg creation rate is around 70%.
- Deals of fishes are one more type of revenue.

RECOMMENDATION

- This process for cultivating could be taken on even in enormous scope creation.
- Slimy parasite could likewise be utilized in poultry feed creation since it is a decent wellsprings of methionine.

REFERENCES

1. Abu OA, Onifade AA, Abanikannda OT, Obiyan RI (2008) Status and promotional strategies for rabbit production in Nigeria. In 9th world Rabbit congress. 10-13.
2. Adewoye SO, Omotosho JS (1997) Nutrient composition of some freshwater fishes in Nigeria. Biosci Res Commun. 11(4):333-336.
3. Ajad MI, Lawal WS, Banjoko IK, Ahmed SA (2019) Comparative proximate and mineral analysis of smoked dried and solar-dried African mud catfish.
4. Akinneye JO, Amoo IA, Arannilewa ST (2007) Effect of drying methods on the nutritional composition of three species of fish (*Bonga* sp. *Sardinella* sp. and *Heterotis niloticus*). J Fish Int. 2(1):99-103.
5. Bolawa OE, Gbenle GO, Ayodele SO, Adewusi OR, Mosuro AO, et al. (2011) Proximate composition properties of different fish species obtained from Lagos, Nigeria. Int J Food Saf. 13:342-344.
6. Burgess GH (1975) Increasing the direct consumption of fish. Torrey Research Station.
7. Cui Y, Wootton RJ (1988) Effects of ration, temperature and body size on the body composition, energy content and condition of the minnow, *Phoxinus phoxinus* (L.). J Fish Biol. 32(5):749-764.
8. Dawson AS, Grimm AS (1980) Quantitative seasonal changes in the protein, lipid and energy content of the carcass, ovaries and liver of adult female plaice, *Pleuronectes platessa* L. J Fish Biol. 16(5):493-504.
9. Lawal WS, Oladunjoye IO, Banjoko IK, Ahmed SA (2013) Performance characteristics, sensory evaluation of broiler birds fed *Jatropha caucas* (A tertiary education trust fund sponsored project of Kwara state Polytechnic, Ilorin Nigeria).