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ANALYSIS OF NET FARM INCOME AND NON-FARM INCOME OF BROILER FARMERS ACROSS DIFFERENT SCALE OF PRODUCTION IN IMO STATE, NIGERIA

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ABSTRACT

This study analyzed net farm income and non-farm income of broiler farmers across different scale of production in Imo State, Nigeria. Capital accumulation for reinvestment and expansion remains a challenge among broiler farmers in the study area. A multi-stage sampling technique was adopted, and a total of 9 LGAs were purposively selected from the 3 zones (Orlu, Owerri and Okigwe zone). Stratified random sampling was used in selecting 26 small-scale and 9 medium-scale farmers from Owerri Agricultural zone for the study. In Orlu, 15 small-scale, 15 medium-scale and 6 large-scale of broiler farmers were selected, while 15 small-scale, 11 medium-scale and 3 large-scale broiler farmers were selected from Okigwe Zone. This gave a total of 113 broiler farmers selected from the chosen LGA's in the state. Out of 113 broiler farmers selected only a total of 100 responses were found useful for the study. Descriptive statistics, profitability ratio and net income model tools were employed for analyses in this study. The profitability result revealed that the large-scale broiler production has the highest return on naira used with 174% followed by medium-scale production with 47% return on naira used and the least was small-scale production with 33% return on naira expended. The result reveals that broiler farming in the study area is profitable and has the ability to offset its own cost, and still generate substantial return on naira used from every additional H1 spent no matter the scale of operation. The study also shows that net farm income of broiler farmers (₩7,690,429.50 for small-scale, ₩ 17,615,997.00 for medium-scale and ₩ 142,674,200.00 for large-scale) is significantly greater than their non-farm income irrespective of scale of operation. In an attempt to raise the net-income of broiler farmers vis-a-vis more capital to scale-up broiler production, small and medium-scale operators are encouraged to diversify their productions with other livestock enterprises like layer production enterprise, turkey production enterprise and goat production enterprise.

Keywords: Net farm income, non-farm income, broiler farmers, scale of production

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INTRODUCTION

Despite the huge natural resource endowment and agricultural potential of most farmers in Nigeria, low income is prevalent (International Fund for Agricultural Development, (IFAD), *Journal of the Faculty of Agriculture and Veterinary Medicine, Imo State University Owerri website: www ajol.info; Attribution: Non-commercial CC BY-NC*

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(2001)). Ehirim *et al.*, (2017) have described low income as a rural phenomenon in Nigeria and in Imo State in particular. Empirical evidence suggests that good number of small holder farmers belong to low-income class who cannot adjust their scale of production (IFAD, 2001; and Ehirim *et al.*, 2017).

Poultry production, which occupies a pride place in agricultural activities given its high and faster turnover rate, is not left out. According to SAHEL (2015) the Nigerian poultry industry comprises about 180 million birds maintaining the second largest chicken population in Africa after South Africa. It is by far largest livestock group and it is estimated to be about 192,689 tonnes in 2018 growing at an average annual rate of 2.88% (Knoema, 2018). More so, broiler production is an important poultry enterprise required for quality meat production and has majority of the farmers as small holder operators who can neither acquire improved farm input nor access large capital given their poor socio-economic disposition (Mgbakor & Nzeadachie, 2013).

Furthermore, a large number of small-scale broiler farmers and the persistent low income among them suggest that the transition to large-scale broiler investment has remained a mirage in Nigeria (Babalola, 2014; Ibekwe, 2010, Ike & Ugwumba, 2011; Mgbakor & Ezeadachie, 2013). The concomitant low farm income affects farmers' ability to venture into modern business enterprise. Broiler farmers in Nigeria are challenged with low capital accumulation and poor reinvestment; hence only small-scale based farming dominates the study area (Babalola, 2014; Ike & Ugwumba, 2011; Mgbakor & Nzeadachie, 2013; Okonkwo & Akubuo, 2001).

In the past, farming was the major if not the sole preoccupation of most rural dwellers. Nowadays, rural dwellers have multiple streams of income from different facet of economic activities. Thus, one of the most important sources of these incomes could be referred to as "rural non-farm economic sectors/activities". This sector has recorded substantial growth over the past decade in household employment outside own farming (Ibekwe, 2010; Nwaru, 2007). At present, due to the increasing share of non-farm incomes, they cannot be considered as marginal (Ibekwe, 2010).

MATERIALS AND METHOD

The study was conducted in Imo State of Nigeria. The state is made up of twenty-seven (27) Local Government Areas. These Local Government Areas fall into three agricultural zones namely; Owerri, Okigwe and Orlu Zones. Eleven local government areas make up Owerri agricultural zone which are limited to Ezinihitte Mbaise, Ahiazu Mbaise, Aboh Mbaise, Owerri North, Owerri West, Mbaitoli, Ikeduru, Owerri Municipal, Ngor-Okpala, Oguta and Ohaji/Egbema. Six local government areas make up Okigwe agricultural zone which are limited to Obowu, Ihite Uboma, Isiala Mbano, Ehime Mbano, Onuimo and Okigwe- While Orlu agricultural zone is made up of ten local government areas which include: Ideato South, Ideato North, Oru East, Oru West, Orsu, Orlu, Isu, Nwangele, Nkwere and Njaba. Imo State was

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chosen for this study because broiler farming offers a great deal of means of livelihood to a lot of its residents.

The study used a multistage sampling technique. The three (3) Agricultural Zones; Okigwe, Orlu and Owerri, were used to ensure proper representation of broiler farmers in the state. A list of broiler farmers and their stock sizes in the state from Agricultural Development Programme (ADP) showed that some local government areas do not have any registered broiler farmers. Hence, a purposive selection of three (3) Local Government Areas (LGAs) with large number of registered broiler farmers from each zone was done in the first stage. Hereafter, Ezinihitte Mbaise, Oguta and Ikeduru LGAs were selected from Owerri Agricultural Zone, and Nwangele, Orlu and Oru East were selected from Orlu Agricultural Zone, while Okigwe, Isiala Mbano and Obowo LGAs were selected from Okigwe Agricultural zone. The registered LGA's is shown in Table 1.0.

The second stage was disaggregation of the farmers according to their stock sizes which represent their scale of operation. The categorization into three scale of operations follows Olorunsanya (2004), and Akinwumi, Adegeye, Ikpi, and Olayide (1979) classification who established that a farmer who maintains at least 5000 birds is classified a large-scale producer and farmers with between 500 and 4999 birds are medium-scale producers, while those with less than 500 birds are said to be small-scale producers. A stratified random sampling technique was used to select 113 broiler farmers from across the already selected LGA's in the state. At this stage, 35 broiler farmers were chosen from Owerri agricultural Zone while 42 and 36 were selected from Okigwe and Orlu respectively. The stratification was done followed by a proportionate random selection. This is due to the unequal number of broiler farmers in each stratum. In Owerri Agricultural Zone, 26 small-scale and 9 medium-scale of broiler farmers were selected for the study as there are no large-scale broiler farmers. In Orlu, 15 small and medium-scale each and 6 large-scale of broiler farmers were selected. While 15, 11, and 3 of broiler farmers were chosen for small-scale, medium-scale and large-scale respectively from Okigwe Zone.

A well-structured questionnaire was administered to these farmers to elicit information on their operations such as unit prices of input and output, scale of production, revenue, other sources of income. The study retrieved a total of 100 responses from these farmers. In Owerri Zone, only 35 responses of 26 and 9 from small and medium-scale farmers respectively were found useful for data analysis. In Orlu, all the 36 questionnaires comprising of 15 each of small and medium-scale and 6 from large-scale broiler farmers were found useful. In Okigwe, only 29 out of 42 responses were found useful for the study. The detail distribution of questionnaire and their retrieved responses are shown in Table 1.0.

Estimating the Net Farm Income

Net farm income model was used to achieve the objective of this study. In this study, net farm income is classified across the different scale of broiler operation in the study area. Net farm *Journal of the Faculty of Agriculture and Veterinary Medicine, Imo State University Owerri website: www ajol.info; Attribution: Non-commercial CC BY-NC*

income (NFI) analysis was used to compute the costs, returns and profitability of broiler production in the study area. The net farm income model of broiler farmers is specified below following Emaikwu, Chikwendu and Sani (2011).

Where; NFI = Net Farm Income (\mathbb{H})

 $TR = Total Revenue (\mathbb{N})$ i.e. cash income and imputed income (\mathbb{N})

TC = Total Cost of production in naira (TFC + TVC)

TFC =Total Fixed Cost (\mathbb{N})

TVC= Total Variable Cost (\mathbb{N})

RESULTS AND DISCUSSION

Net Farm Income of Broiler Farmers Across Different Scale of Production

The annual net income of the broiler farmers across the small, medium and large-scale operations were illustrated in Table 2.0. The volume of revenue generated from sales of broilers by small-scale operators amount to \aleph 30,781,560.00 per annum. However, the cost outlays for small-scale farmers include depreciation cost of \aleph 727,487.50, operating cost which was \aleph 19,445,343.00, interest on farm loan at \aleph 306,500 and imputed cost from family occupied pen at \aleph 1,262,100.00 and family labour at \aleph 1,349,700.00. The total cost of the entire production activities for small-scale broiler farming enterprise amount to \aleph 23,091,130.50. With the net income model analysis, the annual net income of small-scale broiler farmers in the study area amount to \aleph 7,690,429.50 while the average net income per bird is \aleph 252.73 with 33% return on naira used. That is to show that the small-scale broiler farmers in the study will be generating an average net income of \aleph 252.73 per bird raised in a cycle. This also indicates that for every additional \aleph 1 used in the small-scale broiler farming in the study area, there will be 33% increase in return on naira used at the end of the year, all things being equal. Thus, small-scale broiler production in the study area is profitable.

Similarly, medium-scale broiler farmers generated a good sum of revenue from the sale of broilers at the tune of \aleph 54969250.00 per annum. Whereas the cost implications of the production activities include depreciation cost of \aleph 760,588.00, operating cost of \aleph 33,063,165.00 and interest on loan borrowed is given at \aleph 145,000.00. While the imputed cost on family occupied broiler pen amount to \aleph 1,457,750.00 and that of family labour summed up to \aleph 1,926,750.00. These sum the total cost of the entire production activities for medium-scale broiler enterprise to \aleph 37,353,253.00. With the net income model, the annual net income of medium-scale broiler farmers in the study area amount to \aleph 17,615,997.00, while the average net income per bird is \aleph 171.45 with 47% return on naira used. That is to show that the medium-scale broiler farmers in the study will be generating an average net income of \aleph 171.45 per bird

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raised in a cycle. Table 2.0 also indicates that for every additional \mathbb{H}^1 used in the medium-scale broiler farming in the study area, there will be 47% increase in return on naira used at the end of the year, all things being equal. Thus, medium-scale broiler production in the study area is more profitable relative to small-scale broiler production.

However, large-scale of broiler farmers generate a large volume of revenue at the tune of ₩224,852,500.00 per annum. The cost implications of the production activities include depreciation cost of N 2,999,100.00, operating cost of N77,085,200.00, and the interest on loan borrowed amounting to \aleph 407,000.00. While the imputed cost on family occupied broiler pen amount to \mathbb{N} 835,000.00 as family labour cost \mathbb{N} 852,000.00. This sum the total cost of the entire production activities for large-scale broiler enterprise to \aleph 82,178,300.00. Applying the net income model, the annual net income of large-scale broiler farmers in the study area amount to ¥142,674,200.00 while net income per bird is ¥969.25 in a cycle. Table 2.0 also indicates that for every additional \mathbb{H}^1 used in the large-scale broiler farming in the study area, there will be 174% increase in return on naira used at the end of the year, all things being equal. Thus, large-scale broiler production in the study area is more profitable relative to small and medium scale production.

The analysis shows that broiler business is very profitable and confirmed the findings of various researchers (Ibrahim, Shettima, Sulumbe, & Abdullahi, 2009; Nurudeen, 2012; Ojo, 2003; Tijani et al., 2012; Yusuf and Malomo, 2007) in different states of the federation who concluded in different studies that poultry business was highly profitable. Comparing the profitability of the three different scales of broiler farmers in Table 2.0, it indicates that the large-scale has the highest return on naira used with 174% followed by medium-scale with 47% return on naira used and the least was small-scale with 33% return on naira expended. The result reveals that the broiler farming in the study area is profitable and has the ability to offset its own cost, and still generate substantial return on naira used from every additional \mathbb{N}^1 spent no matter the scale of operation. It is also noteworthy that large-scale broiler farmers enjoyed more internal economies of scale which results to positive cumulative effects on their return on naira expended.

Net Income Per Bird Per Cycle

Fig. 1.0 confirms that medium-scale broiler production raised the least income per bird in a cycle. Whilst table 2.0 reveals that the medium-scale has the highest number of production cycle per annum with annual net income preceding small-scale production.

Non-Farm Income of Small, Medium and Large-Scale Broiler Farmers

Table 3.0 reveals non-farm income of broiler farmers across different scale of operation from salaries/wages and remittances in the study area. From table 3.0, 52 small-scale farmers, 27 medium-scale farmers and 6 large-scale farmers engaged in non-farm economic activities. By

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indication, broiler farmers did not only generate income from broiler production, they also have other streams of income.

Comparing the value of average annual net income (in Table 2.0) of broiler farmers with the value of average non-farm income (in table 3.0) of broiler farmers across different scale of operation, it can be deduced that the non-farm income only serves as a supplementary income for broiler farmers in the study area. Non-farm income could be helpful and act as an income buffer for their household particularly when farm income becomes vulnerable to the risks and uncertainties related production.

CONCLUSION

Comparing the profitability of the three different scale of broiler farmers in Table 2.0, it indicates that the large-scale has the highest return on naira used with 174% followed by medium-scale with 47% return on naira expended and the least was small-scale with 33% return on naira expended. The result reveals that the broiler farming in the study area is profitable and has the ability to offset its own cost, and still generate substantial return on naira expended from every additional $\mathbb{N}1$ spent no matter the scale of operation. It is also noteworthy that large-scale broiler farmers enjoyed more internal economies of scale which results to positive cumulative effects on their return on naira expended.

Comparing the average annual net income of broiler farmers with the average non-farm income of broiler farmers across different scale of operation, it can be deduced that the non-farm income only serves as a supplementary income for broiler farmers in the study area.

RECOMMENDATION

In an attempt to rise the net-income of broiler farmers vis-a-vis more capital to scale-up broiler production, small and medium-scale operators are encouraged to diversify their productions with other livestock enterprises like layer production enterprise, turkey production enterprise and goat production enterprise.

Broiler farmers are encouraged to cultivate the culture of savings to enable them have enough capital for reinvestment and expansion as majority of broiler farmers are small-scale base.

This study revealed that feed cost is the major important single cost item associated with broiler production which could be attributed to high market prices of the broiler feed ingredients such as maize, groundnut, soy bean and wheat. To this effect, government should engage in Public-Private Partnership (PPP) to establish feed production plants in the 3 zones of the state that will integrate growing of feed ingredients such as maize, groundnut, soy bean and wheat as raw materials for feed production. This to a large extent will not only reduce the cost of feed for broiler farmers but also reduce unemployment and stimulate economic activities in the state.

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APPENDIX

| | Number of | Number of | Number of | Number per scale | Total No. of | | |
|--------|---------------------|-------------------|--------------------------------|---------------------|------------------|-----------------|------------------------|
| Zones | registered LGA's | Selected LGA's | selected broiler farmers | Small- scale | Medium- scale | Large- scale | responses retrieved |
| Owerri | 10 | 3 | 35 | 26 | 9 | 0 | 35 |
| Orlu | 7 | 3 | 36 | 15 | 15 | 6 | 36 |
| Okigwe | 5 | 3 | 42 | 15 | 11 | 3 | 29 |
| Total | 22 | 9 | 113 | 56 | 35 | 9 | 100 |

Table 1.0: A breakdown of sample selection of broiler farmers for the study

Source: Field Survey Data, 2018

Table 2.0: Annual Net Income of Broiler Farmers across the Three Scale of Operation

| | | | | Scale of Operation | | | | | | |
|-----------------------|----------------|--------|--------------------------------|---------------------------------|--------|--------------------------------|---------------------------------|-------------|--------------------------------|---------------------------------|
| Items | Small-sc | | | ale Medium-scale | | | -scale | Large-scale | | |
| | Details | Qty | Unit price (N) | Amount/year (N) | Qty | Unit price (N) | Amount/year (N) | Qty | Unit price (N) | Amount/year (N) |
| Sales | Table Birds | 15,215 | 2,023.12 | 30,781,560.00 | 34,250 | 1,604.94 | 54,969,250.00 | 73,600 | 3,055.06 | 224,852,500.00 |
| Revenue | | | | 30,781,560.00 | | | 54,969,250.00 | | | 224,852,500.00 |
| Cost | | | | | | | | | | |
| Fixed inputs | DV | | | 727,487.50 | | | 760,588.00 | | | 2,999,100.00 |
| Op Cost | | | | 19,445,343.00 | | | 33,063,165.00 | | | 77,085,200.00 |
| Imputed cost | FOP | | | 1,262,100.00 | | | 1,457,750.00 | | | 835,000.00 |
| | FL | | | 1,349,700.00 | | | 1,926,750.00 | | | 852,000.00 |
| Interest paid/year | | | | 306,500.00 | | | 145,000.00 | | | 407,000.00 |
| Total cost | | | | 23,091,130.50 | | | 37,353,253.00 | | | 82,178,300.00 |
| NI/Annum | | | | 7,690,429.50 | | | 17,615,997.00 | | | 142,674,200.00 |
| NI/B/C | | | | 252.73 | | | 171.45 | | | 969.25 |
| RON | | | | 33.3 | | | 47.16 | | | 173.62 |

Source: Field Survey Data 2018.

Small-scale Average cycle/year =2;

Medium-scale Average cycle/year = 3; and Large-scale Average cycle/year =2

Average unit price/scale of production/cycle Small-scale: ¥2023.12 Medium-scale: ¥ 1604.94 Large-scale: ¥3055.06 DV = depreciated Value FOP =Family Occupied pen FL = family Labour OP Cost = Operating Cost NI = Net Income NI/B/C = Net Income/Bird/Cycle RON = Return on Naira used Journal of Agriculture and Food Sciences Volume 18, Number 2, October 2020, pp 98 - 108

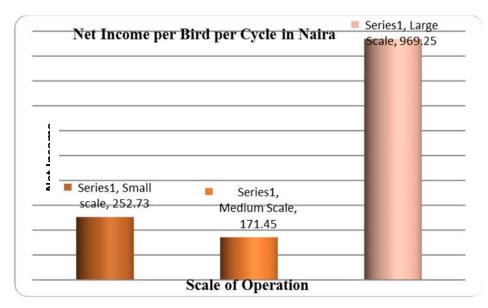


Fig. 1.0 Net income per bird per cycle in naira for different scale of production

| Variables | Income (N /Annum) | | | | | |
|--|-------------------------------|--------------|--------------|--|--|--|
| | Small | Medium | Large | | | |
| Salaries/wages | 4,835,600.00 | 4,826,000.00 | 1,590,000.00 | | | |
| Remittances | 2,510,100.00 | 2,900,000.00 | 785,000.00 | | | |
| Total Income | 7,345,700.00 | 7,726,000.00 | 2,375,000.00 | | | |
| No of Farmers | 52 | 27 | 6 | | | |
| Mean Annual Net Income (N /Year) | 141,263.00 | 286,148.00 | 395,833.00 | | | |

Table 3.0: Non-farm Income of Small, Medium and Large-scale Broiler Farmers Scale of Operation

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