



BUDGETARY ANALYSIS OF SMALL SCALE POULTRY PRODUCTION IN EGBEDA LOCAL GOVERNMENT AREA, OYO STATE, NIGERIA

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This research assessed the costs and returns associated with small scale poultry production in Egbeda Local Government Area, Oyo State. A multi stage sampling technique was used to select 100 respondents; the data were analyzed using descriptive statistics and budgetary analysis. The results revealed that an average respondent was 44 years old and married with an average of seven individuals in the household. Furthermore about half (41%) of the poultry farmer raised layers using backyard management system. Net farm income was N300,146, N105,601 and N57,690 from layer, broiler and cockerel production respectively. The study concluded that small scale poultry production is profitable. Therefore awareness and resources to promote such cottage business should be made available by Government to combat the prevailing economic recession in the Nation.

KEYWORDS: Poultry production, backyard management, net farm income and constraints.

INTRODUCTION

Poultry is a sub-sector in the livestock industry constituting a major component of the agricultural economy. The sector provides animal protein to the populace as well as employment for a considerable percentage of the population. According to FAO Report (2010), poultry comes fourth among sources of animal proteins for human consumption in Nigeria and contributes about 27% of the national meat production. According to Killebrew and Plotnick (2010), demand for livestock products, including poultry, is expanding in West Africa as a result of population growth and increased urbanization. Small scale poultry production represents one of the few opportunities for saving, investment and security against risks. It accounts for approximately 90% of total poultry production (Branckaert, 1999). Keeping poultry makes a substantial contribution to household food security throughout the developing world. It helps diversify incomes and provides quality food, energy, fertilizer and a renewable asset in over 80 percent of rural households (Sonaiya and Swan, 2004). The poultry industry also provides employment opportunities for the populace, thereby serving as a source of income to the people (Akanni, 2007). However, the poultry industry in Nigeria, as well as other developing countries of Africa, is continually characterized by low production levels (Folorunsho et al., 2016). Small-scale poultry production has been a very important economic and nutritional resource for poor families in rural areas of developing countries in Latin America, Africa and Asia (Sonaiya and Swan (2004), Alimi et al., (2006), Abubakar et al., (2007), Sharma (2007), Henning et al., (2007), Guèye (2009), Alders and Pym, (2009)). It is often promoted and used by Government and NGO's in development projects to improve food self-sufficiency, alleviate malnutrition as it provides an excellent protein source (Farrell, 2000), and create income generating activities. To exit the poverty cycle, sustainable economic growth through increased employment and income generation needs to be created in poor rural areas (Wynne and Lyne, 2003). Increased production of poultry, both commercial and family, is a vital contribution to income, food security at both the household and community levels (Alders, 2012). Therefore, this study assessed the cost and returns associated with small scale poultry farming. It should be noted that the subject of economic analysis of poultry production in Nigeria has received considerable attention in the literature (Okafor et al., 2006; Bamiro et al., 2006; Bamiro, 2008; Oladeebo and Ojo, 2011). However, production under

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the backyard management system has not been an emphasis particularly in such a period of economic the backyard management of the specific objectives of this study were to determine the socio-economic recession in Nigeria. The specific objectives of this study were to determine the socio-economic recession net farm income and production constraint. recession in reger recession in reger recession in recess production within the study area.

MATERIAL AND METHODS

MATERIAL MAT The study the The study is the state. The LGA is located on longitude 7°23'47°N, 3°550 and 3°91667°F with a population of 210.200 Ibadan/Ibadapa 3.91667°E with a population of 319,388 on a land mass of 158.508km² of urban and agricultural land with no forest reserves and mean annual rainfall of 1420.06mm. Temperature ranges from maximum 26.46°c and minimum 21.42°c while relative humidity is 74.55%. There are about three types of mineral resources found in Egbeda Local Government Area; Aquamarine in Egbeda, Tourmaline in Olodo, Tantalite in Wofun. A favourable soil factors allow the cultivation of yam, cassava, maize, cocoa, oil palm citrus fruits and vegetables likewise rearing of livestock such as goats, sheeps, pigs and poultry such as duck, chicken, turkey, as well as micro-livestock of snail, rabbit, grasscutter and honey-bee.

The study was based on a multistage selection of 100 small scale poultry farmers in Egbeda Local Government Area. At the first stage, 50% percent of total wards were randomly selected giving rise to 5 of total 11 wards. 45% selection from each sample frame made up the sample size of 100 farmers in the second stage as shown in the Table 1.

Table 3: Small scale poultry farmers register

Wards	Sample Frame	Sample At 4	5%
Erunmu	63	28	370
Owo Baale/Kasumu	48	21	
Olodan/ Ajiwogbo	39	18	
Egbeda	43	19	
Olodo II	32	14	
TOTAL	225	100	

Source: Egbeda LGA, 2016.

A structured questionnaire used as an interview schedule was employed in gathering data used in the course of analysis. Data collected included socio economic characteristics, cost and return associated with poultry activities as well as constraints faced by the small scale poultry farmers. The data were analysed using descriptive statistics and budgetary analysis. The budgetary analysis following (Olabode and Ojo, 2011; David, et al. 2014, Adebayo et al. 2015) involves the following in poultry production;

NFI = GM - TCGM = TR - TVC

TC = TFC + TVC

Where

NFI Net Farm Income TRTotal revenue TVC Total variable cost TC

Total cost TFC Total fixed cost

RESULTS AND DISCUSSION

The result of socio economic characteristics of poultry farmer on Table 2 shows that at most one out of three (2.16). of three (31%) of small scale poultry farmers falls within the range of 41-50 years with a mean of 44 years. In according to the scale poultry farmers falls within the range of 41-50 years with a mean of 44 years. years. In essence these farmers are economically youth who can make use of various livelihood

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strategies in combating economic recession. Furthermore the male constituted a larger percentage (55%) when compared with the females (45%) indicating that male dominated poultry production in this area in concordance with (Okoli *et al.*, 2004) who found out that about 60% of men were involved in poultry production in order to supplement their income in Imo State, Nigeria.

Table 4: Distribution of farmers by age, gender, marital status and Household size

Description	Frequency	Percentage(%)
Age (years)	1 - 291	
20-30	15	15
31-40	29	29
41-50	31	31
51-60	17	17
Above 60	8	8
Mean	44	
Gender		
Male	55	55
Female	45	45
Marital status		
Single	11	11
Married	89	89
Household size (nur	nbers)	
1-5	, 28	28
6-10	53	53
11-15	17	17
16-20	2	2
Mean	7	
Education (yrs)		
Adult education	4	4
Non formal	9	9
Secondary	29	· 29
Tertiary	46	46
	100	100

Source: Field survey, 2016.

Table 2 revealed further that majority (89%) of the small scale poultry farmers were married, therefore the need for further sources of income to cushion the effect of economic recession on the household. In addition, not less than half (53%) of the small scale poultry farmers have between 6-10 persons in the household with a mean of 7 persons revealing a rather large number of mouths to feed but also more hands for labour. Educational attainment of the respondents showed about half (46%) of the farmers had tertiary education, meaning that this set of farmers were literate and able to generate income from other sources corroborating Nkhori (2004).

Table 5: Distribution of farmers by farming experience, secondary occupation, mode of land

misition, types of birds and management system

equisition, types	10001 F-004-90	Frequ	ency Tales	Service Control of the Control of th	Percen	was a second of the second of
Description Farming experien	cc (vears)	Dairy Harrison	eterospecial	Material printing of the printing of the con-	resten	The second secon
corming experien	ice (jemis)	57			**	
-5	07	29	23		31	
5.10		10	liter a		29	
1-15		4	A STATE OF THE STA		10	
Above 20		11.2			4	
40010		6	1			
Mean Secondary occup	ation		*			
Secondary		20	21729		20	
Non		14			14	
Artisans Civil service		29			29	THE PARK TO SEE HAVE AS A STREET
Civil service	R.C.	37	47		37	
Trading Acquisition of la	nd					79-10-10-10-10
Acquisition of its		18			18	
Purchased		58	*		58	
Owned		24			24	
Rent		1.1	Catex			
Type of birds	and the state of t	23			23	
Broiler		11			11	To Principal Action Confidence
Cockerel	0.214 File man				41	
Layer	or as - ass box	1211 383 (1220)	no madel yeles	re which is	13	the countries of the first of the state of
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Broiler, layer, an	d cockerel	first mades	tivi baltiseng i		· 图像是第二	
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Backyard	lined (OE) vil	34	etionis ampirali ke al was "stradinion		19	
Battery cage	on Goods of	19	Sea, ha layer d		27	
		27	ar sea to a 14 form			
Intensive and ba	Hery Cape				13	THE PERSON NAMED IN STREET, THE PERSON NAMED IN
Semi intensive	TO THE PARTY OF	100 ST13	istable, in the	THE RESIDENCE OF THE PERSON AND THE	manager of the contract of the	endocay - a managed degraph and and the control of

Source: Field survey, 2016.

Table 3 shows that the farmers just started small scale poultry production as majority (57%) of them had between 1-5 years of farming experience. This could be their response to the recent economic recession in the nation. Most (58%) of the poultry farmers used their own land for poultry production which will in turn help income accruable from the business as rent, lease or fear of sudden eviction is eliminated. Analysis of types of birds raised showed that the largest proportion (41%) of small scale poultry farmers raised layers, followed by (23%) broilers production. Therefore layers production is more acceptable in generating income because of the daily sales of eggs and extra income from spent laying birds as opined by Bamiro et al., (2006). 34% of the farmers raised the birds at their backyard thereby requiring less spending on housing. FAO (2004) affirmed that backyard poultry production has potential for increasing family income if good management including feeding and health are adhered to.

Poultry Farmers' Income

s' Income	yes de de la co	Total I	11
Frequ	ency	Percentage	
•		* * * * * * * * * * * * * * * * * * * *	
70		70	
11		11	
. 9		9	
5		5	
5 '		5	
55715			
ŝ		50	
59			
28			
4		4	
7		7	
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	70 11 9 5 5 5 55715	70 11 9 5 5 5 55715	70 70 11 9 9 9 5 5 5 5 5 5 5 5 5 5 5 715 715 715 715 7

Source: Field Survey, 2016.

Table 4 showed that majority (70%) of the poultry farmers earned between No - N50,000 and average of N55715 net farm income per production cycle. This indicates that small scale poultry production is at least profitable. Other income sources also generated between NO - N50,000 with an average of N58767 for the majority (59%) of the farmers. Income among this set of farmers is generally low. Table 5 shows that majority (53%) of the respondents' rear less than fifty (50) broilers and 27% rear more than two hundred and fifty (250) broilers, for layers the majority (49%) rear more than two hundred and fifty (250) birds while for cockerel 65% of the respondents rear less than fifty (50) birds Meanwhile, the mean number of broilers, layers and cockerel were 446, 326 and 278 respectively.

5: Distribution of Birds (Broilers, Layers and Cockerel)

No of birds	Broilers Frequency	Percent	Layers an Layers Frequency	Percent 28.0	Cockerel Frequency	Percent 65.0
<50	53	53.0	28 23	23.0	19	19.0 16.0
51-250	20	20.0	49	49.0	16	10.0
>250	27	27.0	326	į.	278	100.0
Mean Total	446 100	100.0	100	100.0	100	

Analysis of costs and returns on Table 6 showed that №216,897, №298,618 and №92,443 were total cost of producing broiler layer and cost of producing broiler, layer, and cockerel respectively. Components of this are cost of water vaccines, feeds, labour electricity and cockerel respectively. vaccines, feeds, labour, electricity and other necessary materials in poultry production. In the three categories considered, cost of feed constituted the largest proportion with the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the highest supporting the cost of layers feed been the layers feed been the layers feed been the highest supporting the cost of layers feed been the layers feed layers feed been the highest supporting the findings of Yusuf and Malomo (2007) who submitted that feed cost is the major cost item associated with feed cost is the major cost item associated with poultry egg production. Table 5 further reveals total revenue was N474.763. N802 561 N222 072 total revenue was N474,763, N802,561, N233,079 in broiler, layer and cockerel production respectively. Layer production was the many first production. respectively. Layer production was the most profitable; having a net farm income of N300,146 because of the extra revenue farmers got from because of the extra revenue farmers got from spent laying birds, which is followed by broiler and cockerel production of N105.601 and N57 600 cockerel production of \$\text{N105,601}\$ and \$\text{N57,690}\$ respectively. This result indicated that the support the first support support the first support support support the first support suppo categories of poultry production were profitable but layer production offers most returns. This result support the findings of Aboe et al. (2006)

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Cockerel

LIA 6: COST ALL	d Returns of proffer, la	Var a. i
Table o.	Broiler	yer and cockerel production
Cost	7759	F-oduction

			w-15			
Descriptions	Amount (N)	Percentage (%)	Amount (N)	Percentage (%)	Amount	Percentage
Variable cost	63,904.69	41.0	A: 1		(N)	(%)
Feeds		41.9 2.7	95,298.85	46.8	staffed a	And Street of Street
Labour	4,091.84	A CONTRACTOR OF THE PARTY OF TH	6,253.85	3.1	34,882.64	42.1
Water	53,559.18	35.2	67,534.92	33.1	4,805.56	6.1
ight	21,432.65	35.2	4,402.31	2.2	29,097.22	35.1
gg crate		5	1,176,92	0.6	3,765.29	4.5
Shavings	336.41	0.2	263.39	0.1	Add to	. 20 to +6 f
Disinfectant	1,732.65	e1.1	1,979.02	1.0	237.61	0.3
Medication	5,373.67	3.5	16,478.80	8.1	1,976.94	2.4
Debeaking	-	-	8,067.08	4.1	The second second	The state of the state of
Charcoal	1,833.5	1.2	2341.39	1.1 - 311	15	-
TVC	152,264.56	100	203,796.57	100	2,243.61	2.7.23 108
fixed cost			200,170,37	100	82,944.75	100
Building	54,186.99	83.8	74,769.23	78.9		
Drinkers	3,752.65	5.8 111111 19	3,722.15		4,321.58	45.5
Feeders	5,260.00	8.1201/1 bas	3,673.46	1.2		" and sinti
ocal heater	994.50	1.5 ch		3.9 araki manon	3,683.89	38.8
Bulb	438.80	0.7	927.38	0.5	963.33	10.1
	430.00	0.7	782.66	13.8	530.14	5.6
Battery cage	64 622 04 0	100	10,946.92	1.8	23.1	A Terrer and
rfC	64,632.94	1,001.9 bes	94,821.81	100	9,498.94	100
rc	216,897.50	ל הכור כטווות	298,618.38	I stook seller	92,443.69	and the second second
Returns		1	1754			
Broilers	472,965.67	99.6	A Control	time? has . VA		
Cockerels	ATON BOTTO	mail I been one	artif Societion	The state of	231,705.60	99.4
Spent layers	•	-	610,873.70	76.1	194 (Annual 1951)	-
ggs in crate	mid when the	Contract A morning	184,320.0	23.0		\$.
Cracked eggs	The sale	RECORDER OF SHARE	5,658.77	0.7	H 😜 D . 15	· - months.
Manure	644.89	0.1	689.23	0.1	561.11	0.2
Empty bags	1,153.06	0.2	1,020.15	0.1	812.50	0.3
TR	474,763.63	100	802,561.85	100	233,079.21	100
GM	322,499.07	a to Villago, S	598,765.29		150,134.46	
NFI	105,601.56		300,146.91	wall will be a seen	57,690.78	A

Source: Field Survey, 2016.

items

The main constraints faced by poultry farmers was high cost of feed as it ranked highest on Table 7. This result is in agreement with Bamiro et al. (2006). However, inadequate water supply and unavailability of experts was the lowest. It therefore means that farmers have requisite knowledge and access to technical know-how for production but high cost of feed is hampering profit and production.

					section was be	STANDARD D
		Constraints	Cad	har	poultry	farmers.
m Lla	7. 4	Constraints	Iaceu	Dy	Journa	

Table 7: Constraints faced by poultry la	Frequency	y Percentage
Constraints	36	10.3
Change in weather condition	26	7.4
Outbreak of disease	31	9.0
High mortality rate	27	8.0
Thefts 19 10000 A (20) 2gutnerray	10017 A 231	5.0 January A
Predation problems Insufficient fund to purchase feeds	34	10.0
Prolong period before laying	15	4.3
High cost of vaccines and drugs	40	11.5
Aismanagement by farm workers	20	5.7
ligh cost of feeds	45	12.9
navailable ready market	23	6.6
oul smell	13	3.7
adequate water supply	12	3.4
navailability of expert to administer vaccines	8	2.3
1.6	347*	333.61 00135

Source: Field survey, 2016.

CONCLUSION AND RECOMMENDATIONS

This study concludes that layers production has highest net farm income although the other categories too generate positive income. Based on this finding and others, production of layers should be encouraged through subsidies on poultry feeds particularly.

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