EFFECT OF GOVERNMENT SUBSIDIES ON RICE PRODUCTION IN OGBESE, AKURE NORTH LOCAL GOVERNMENT AREA OF ONDO STATE NIGERIA.

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ABSTRACT

The study investigated the effect of Government subsidies on rice production in Ogbese Akure North Local government area of Ondo state. Data for the study were collected using structured questionnaire administered to 100 respondents who were randomly selected. Data collected were analyzed using descriptive statistics, Cross margin analysis and multiple regression analysis. Results showed that both married men and women were involved in rice production in the study area, even though males dominated Most (52%) of them were still in their productive age range of 31-40 years; and also have one form of education or the other. Furthermore, (44.30%) of the respondents had 6-10 years of experience in rice production. The coefficients for fertilizer, herbicides, farm implements and grants were all positive and highly significant at 1% level of probability. The costs and returns analysis revealed that rice production is a very rewarding and profitable enterprise in the area, if well managed. The major problems and challenges confronting them and which have been identified include; Poor access to credit/funds, Poor infrastructural facilities, inadequate processing facilities, Poor and inadequate storage facilities, lack of improved rice varieties, shortage and high cost of labor; among others. It is therefore, recommended that all these constraints limiting the respondents from achieving their vision and mission in rice production be addressed by the Government and the relative agencies in power so as to encourage them to increase their rice production potentials and capabilities.

Keywords: Government subsides, Rice production

INTRODUCTION

ice (Oryza Sativa) is the most important staple food for about half of the human race and Erenstein 2003; National Cereal research Institute, (NCRI, 2004). Rice is one of the major crops cultivated globally, alongside with wheat and corn (RIFAN, 2017), and provides over 19% of global human per capita energy (Tijani and Bakari; 2014). It is grown in more than a hundred countries with estimated total harvested area of 158 million hectares in 2018 growing season with more than 700 million tonnes of milled rice produced annually from wide ranging ecologies (USAD, 2019). Food and Agriculture Organization (FAO)(2019) and Hessu (2020) reported that 78% of global rice production is for human such as animal feed. According to Food and Agricultural Policy Research (FAPR), the global rice demand is expected rise up to 496 million tonnes in 2022, and up to 555 million tonnes in 2035; hence the need to boost production by all and sundries; thereby help in promoting the growth of all important world staple food (Udemezue, 2019).

The demand for rice in Sub-saharan Africa is growing much faster than any other grain, with both rich and the poor relying on it as their major source of calories (Kormawa and Akande, 2011). It has witnessed considerable growing demand, as more consumers move away from local carbohydrate diet such as yam and garri to making rice the staple food. Rice is the thirdmost consumed staple food in Nigeria (after maize and cassava) and has attained height of a food security crop due to its increased significances in the country (Ume et al 2017). For instance, rice is an essential cash crops for smallscale farmers who commonly sell 80% of total production and consume only 20% (RIFAN, 2017). The current production capacity of the farmers is quiet inadequate to meet the consumption demand of the nation (Bamidele et al, 2010). This inadequacy of the rice harvest to meet consumption demand provide an income enhancing opportunity for the farmers; as well as the unemployed youths to strive for the promotion and cultivation of the crop. However, it is imperative to state that Nigeria has hinged profoundly on imported rice to meet Oladiran S.S; Omopariola T.P Adekanmbi O.M; Aboluwarin T.T; and Ejiko S.A;

her consumption needs, and therefore has of farm credit, training, transportation, storage (WARDA, 2016).

revealed that between 2007-2018, the Nigeria's rice consumption exceeded domestic production subsidies on rice production in Ogbese, Akure 2.4 million tonnes same vein, total demand between 2007 and 2018. Increased at a rate of 5.3%, while imports increased at rate of 5.24% in the same periods under consideration. In order to, encounter the deficit in the year 2018 alone, Nigeria imported an estimated 3 million tonnes of rice (Udemezue, 2019). In addition, statistics on rice consumption in Nigeria between the years 2011 and 2017 as released by the Central Bank of Nigeria (CBN, 2018), showed that Nigeria had steadily rising consumption of about 5.6 and 6.9 metric tonnes respectively compared to her local production of 2.906 and 3.780 million metric tonnes respectively. The deficit as reported by CBN, were met with import that worth more than \$4 billion. This production predicament is more pathetic; especially when the nation's rice potentials are critically examined. RIFAN,(2017) opined that Nigeria has relative resource benefits in terms of dependable climate, edaphic and ecological conditions for efficient rice production. Tijian and Bakari (2014) reported that Nigeria has improved in high yielding rice varieties that associated technologies, numerous and productive rice ecologies and lots of programmes and policies by government and non-governmental organizations armed at advancing rice d u c t Presently, Nigerian rice sub-sector is dominated by weak and inefficient producer-market linkages due to poor infrastructure, including lack of improved processing facilities, low rice productivity, poor post- harvest handling and storage, expensive and poor access to inputs (such as high quality seeds, fertilizer and crop protection products), expensive and poor access to information, lack of transparency among players, low capacity to meet quality standards, and limited efficiency in distribution networks. All these have declined rice productivity and income for rice farmers in Nigeria, especially in Ondo State. It has also resulted to massive lost of manpower through the abandonment of farms and the migration of rural youths to the cities in search of white collar jobs. Therefore, delivering high quality rice farm production in Ondo State, in particular requires government subsides such as substantial agricultural infrastructure in the form

become one of the world's importers of rice West and access to inputs. It is with this knowledge in Africa Rice Development Association mind that the study attempts to evaluate the ff A case in point, United State Agency for of government subsides on rice production in international Development USIAD, (2019) Ondo state of Nigeria. The main objective of this study is to examine the effect of government with a yearly average production deficit of about North Local Government in Ondo state while the specific objectives of this study are to;(I). estimate the costs and returns of rice production as a result of the subsidies:,,(ii). determine the effects of government subsidies on the output of rice; and (iii). Investigate the constraints to obtaining these subsidies on rice production by the respondents.

METHODOLOGY

Description of the Study Area

The study area is Ayede Ogbese along the Akure-Benin expressway in Ondo state. The area lies within latitude E6°SE8° and longitude N4°N6°E. The river has its source from Ayede-Ekiti in Ekiti State and flows through Ogbese in Ondo State to Edo State. The Ogbese community is about 10 km east of Akure, the Ondo State capital. Other towns and villages are: Obaile, Ilu-Abo, Owode, Eleyowo, Igbatoro, Ala, Igoba, Isinigbo, Jegele, O0dudu and Osi. It has a total land area of 676.7km2 (Facts & Figures on Ondo State, 2010). Akure -North Local Government is bounded in the North by Ekiti State, in the South by Akure South Local Government, in the East by Akoko South West Local Government and in the West by Ifedore Local Government respectively. According to the National Bureau of Statistics (2006), Akure - North Local Government has a total population of 176,500 people. Their major occupation in the Local Government is farming The Local Government enjoys a tropical climate with rainy season from April to October and dry season from November to March every year. This climate supports yam production and some other arable crops such as Rice, cassava, maize, cocoyam, and sweet potatoes, they also rear livestock such as goat piggery and poultry. Multi-stage random sampling technique was used in selecting the respondents for the study. Stage (i) involves purposive selection of five (5) communities out of the six (6) communities that make up the study area, based on the preponderance of rice farmers in the communities. .Stage (ii) involves random selection of four (4) villages from each of five (5) communities already selected in stage 1. Stage (iii) involves random selection of five (5) rice farmers from each village; thereby giving a total sample size of one hundred (100) ¹Oladiran S.S; ¹Omopariola T.P²Adekanmbi O.M; ²Aboluwarin T.T; and ²Ejiko S.A;

respondents. Data were collected with the aid of structured questionnaire.

Gross Margin Analysis using budgetary technique. was employed to estimate the profitability of rice production. Gross margin is the difference between the total revenue (TR) and the total variable cost (TVC). It is a useful planning tool in situations where fixed capital is negligible of the farm enterprises, and especially in the case of small scale agriculture (olukosi and Erhabor, (2005). The model is expressed as thus:

 $= TVP = TVC - TFC \dots equation - (i)$

= \sum^{m} PjQj- \sum^{n} Pi Xi - \sum rPKCK ...equation(2) Where:

 $\pi = \text{Net Farm profit}$

TVP=Total Value of production (gross output)

TVC = Total Variable cost

TFC= Total fixed cost

Q = Quantity of ith output

P = Unit price of ith variable inputs

Xi = Quality of ith variable inputs (i=1,2,3.....n)

Pi-Unit price of ith variable inputs

n = Number of inputs used in production

zzzm= Number of enterprises

PK = Unit price of kth fixed inputs (k = 1,2,3.....n)

CK = Quantity of kth fixed inputs

r = Number of fixed inputs

Also multilple regression was used

RESULTAND DISCUSSION

Table 1 revealed that majority (98%) of the respondents were within the age- bracket of 21-60 years. This means that most of them are still in their active economic years, which portend bumper harvest for the rice farmers. This is in line with the findings of Adewum and Omotosho, (2012), who opined that productivity and output of the famer is affected by age. The same table1 disclosed that both men and women were involved in rice production, but with men having 52% participation and the women having 48% participation. This result implies that rice farming in the study area is male dominated; and this is consonance with the Chukwu and Umeh, (2015) who stated that males dominated in rice production in Ondo state The table1 equally displayed that 77.7% of the married couples were involved in rice production in the area. This indicated that most of the rice farmers in the study area were faced with many responsibilities, which can push them into off-farm activities. Table 1 also revealed that most (72%) of the rice farmers sampled had one form of formal education or the other. Amaechina and Eboh (2017) reported on the ease of educated farmers

in having access to information, which could assist in enhancing their informativeness and in making the good use of the improved technologies packages The same of table 1 depicted that 94% of the respondents had farm sizes of between 1-3 hectares, 44.3% had between6-10 years of experience in rice production 29.70% had 11-15 years, while 14.50% are between16-20 years of experience. This implies that most of the rice farmers in the study area are well experienced in rice production enterprise.

Table 1: Socio-economic characteristics of respondents

Variable	Frequency	Percentage	Means
Age(Years) 21-			
30	1 4	14.00	
31-40	4 5	45.00	30
41-50	2 6	26.00	
51-60	1 3	13.00	
Greaterthan.>6	2	2.00	
G ender			
Male	52	52.00	
Female	48	48.00	
Marital Status			
Single	12	12.5	
Married	71	77.7	
Widow(widower)	9	5.5	
Divorced(separate)	8	4.3	
Educational	0	4.3	
	2.0	25.5	
Status No formal	2 8	25.5	
Education Primary	3 7	40.5	
Education	2 0	21.5	
Secondary Education	1 5	12.5	
Tertiary Education			
Household size	2 0	20.0	
1-4	4 5	45.0	7
5-8	2 5	25.0	
9-12	10	10.0	
13-16			
Farming			
experience(year) 1-5	1 0	11.50	
6-10	4 2	44.30	8
11-15	2.8	29.70	
16-20	20	14.50	
Farm Size(ha) 0.5-1.0	2 3	23.00	
1.1-1.5	3 5	35.00	1.1
1.6-2.0	2 0	20.00	
2.1-2.5	1 6 6	16.00	
2.6-3.0 Annual Farm Income on rice(6.00	
50,000-100,000 101,000-	20	20.00	
150,000 151,000-200,000	36	36.00	
201,000-250,000 251,000- 300,000 301,000-350,000	10 12	10.00 12.00	
351,000-400,000	13	13.00	
Source: Field survey,2025	5	5.00	
	5	5.00	

2: Costs and Returns for Rice Production

The viability of an enterprise is indicated by the amount of profit realized per period of time. Profit is the difference between the monetary value of goods produced and the cost of the resources used in their production. The amount of revenue realized and the operating cost of a business venture determines how much gain or

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period. Table 2 show the costs and returns of rice =6,300,000/868,054=7.26production per hectare of land in the study area. BCR=7.26 The result showed that an average of ninety (90) Return on Investment (ROI) bags of milled rice grains were realized per =5,431,946/868,054=6.26 farmer per hectare of land; or a total revenue of ROI = 6.26N1,800,000.00; with a total cost of production amounting to N476,014.00; thereby giving a net *Effects of government subsidies on the output* revenue (or net returns) of N 1,332,986 and a ofrice benefit-cost-ration of 3.8 or Returns on Results of the Multiple Regression Analysis: The but also in the state as a whole.

Table 2: Costs and Returns for Rice Production

Variables	Unit	Quantity	Price/Unit(N) Total Value(N)		
Rice output (A) Total Revenue Variable Costs: (a) Operating input:	Bag	90	70,000		0,000.00 ,000.00
Rice seeds	Bag	20	8,000	160,0	00
Selective herbicide Non-Selective herbicide Insecticide Fertilizer Empty jute bag Twine Total cost of operating inputs: (b)Labour input man/day Land preparation (including nursery) Planting(including) Transplanting Herbicide application Bird scaring Harvesting (including) Conveyance Processing (including) Parboiling threshing	Ü	Litre Litre Litre Bag Bag Roll Man/day	2 2 2 2 6 30 2 2 25 15 2 2 10 2	1,600 1600 2,500 6500 150 250 4000 3000 3000 3000 3000 2500	3,200 3,200 5,000 39,000 4,500 500 215,400.0 0 100,000 45,000 6000 6000 5000 40,000
Winnowing and Bagging Total Labour Cost: Opportunity of x467,400 = N98,154 interest rate	ost of vari	Man/day iable capital at 2	10 21%	2000 =21÷100	20,000 252,000.0

Source: Field survey 2025

(B) Total variable cost(TVC) =)(a+b)=467400+98,154=565,554

Gross Margin(GM) = (A-B)=#6,300,000-565,554 = #5,734,446

Fixed Cost

Rent o n 200,000

Depreciation of fixed Asset(Excluding land) 50,000

Opportunity cost of fixed capital @21% interest rate = 21/100x250.000 = #52.500

- (C) Total fixed cost =250,000 +52,500 =#302,500
- (D) Total cost =(B+C) =565,554+302,500=#868,054
- (E) Net Returns (NR) = (A-D)i.e 6,300,000-868,054 = #5,431,946 NR =#5,431,946

loss the enterprise can achieve within a certain Benefit Cost Ratio (BCR) A/D

E/D

investment per naira of 2.78. This implies that for multiple regression analysis results are presented every one naira invested on rice production in the in Table 3, and it shows that the double -log study area; brings a profit of N 2.78; which functional form emerged as the lead equation indicates that rice production enterprise is a very based on the economic, statistical and rewarding and lucrative venture in the area. This econometric criteria. The coefficients for conforms with the findings of Chukwu and Umeh fertilizer, farm implements, Grants, and (2015) who stated that rice production is a herbicides were all positive and highly profitable enterprise in not just for the study area, significant at 1% level of probability. This implies that they all have direct relationship with the output of rice and this is in line with apriori expectations. As expected, the coefficient of fertilizer was positive and statistically significant at 1% risk level. This confirmed to the findings of Onyenweaku et al., (2010) who asserted that fertilizer is an important input factor that greatly influences farmer's outputs. Furthermore, the positive relation between fertilizer usage and yield could be due to the fact that continued application of fertilizer will replenish the lost soil nutrients and thereby provide the needed nutrients for crop growth and development. Hence, judging from the fact that an increase in the application of fertilizer will help to supply the needed nutrients to maximize yield, the positive effect of it is thereby justified. The coefficient of herbicides equally had direct relationship with the dependent variable at 99% confidence interval.

Table3: Results Of Multiple Regression Analysis On The Effects Of Government l a n d Subsidies On The Output Of Rice

Variables	Linear	Semi-log	Double-log	Exponentia
Constant	199.5493	198.1719	7.5471	120et33
	(4.70)	(3.95)***	(8.66)***	(0.08)
Fertilizer	16.30174	54.12120	0.61877	-1.17et30
	(2.98)*** -	(3.52)*** -	(8.66)***	(-0.08) -
Improved seed varieties	6.764396	25.58691	0.2133	310et29
	(-2.000)**	(-1.73)* -	(0.61)	(-0.35) -
Farm Implements	28.14563	86.97651	1.54440	2.92et30
•	(6.35)*** -	(-7.46)***	(6.00)***	(-0.36)
Grants	6.30817	14.94094	0.70088	1.59et30
	(-1.54)	(1.26)	(2.78)***	(0.24) -
Herbicide	0.7651	1.0092	1.0843	1.83et27
	$(1.9812)^{*}$	$(1.0076)^{\circ}$	(3.042)***	(-0.000)
\mathbb{R}^2	0.4818	0.5111	0.6470	0.0048
F-Ratio	1.0086*	20.07***	35.20***	0.05

Sources: Field survey ,2025

4 Constraints to accessing government subsidies on rice production

The constraints to rice production in this context

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imply the problems and the challenges inhibiting development. rice producers from assessing Government subsidies on rice. Table 4 showed the main constraints highlighted by the rice producers in the study area. The average of each constraint across the rice-growing areas was calculated and presented in the table in ranked order. The major challenges that needed to be addressed in order to make the enterprise more attractive and conducive for the rice farmers is Poor access to credit/fund with a mean score 1.69 is a major constraint to rice production as farmers are poor, they suffer from limited access to credit facilities; thereby hindering higher productivity and output (Izeakor and Olumese, 2010), Hence, lack of adequate provision for agricultural loans from the financial institutions to producers has constrained sustainability of rice cultivation of Nigeria. Shortage and high cost of labour was ranked 6th, its also a major challenge to rice production in the area. Okoye etal, 2010; FAO, 2014; Kadiri etal, 2015; and Ume etal, 2018 reported that the shortage and high cost of labour in most countries insubsaharan Africa. However, Nigerian situation could be linked to among other things; economic recession as labourers charge exorbitantly to survive and as well as rural-urban migration of able-bodied youths in search of greener pastures; thereby leaving farming to the feeble and the aged parents and their little children.

Table 4: Constraints to Accessing Government Subsidies on Rice Production by Respondents

Constraints	Very sever	e Severe	Not severe	Mean	Rank
Inadequate improved rice varieties	83(69.2)	37(30.8)	0(0.0)	1.56	5
Shortage and high cost of Labour	85(70.8)	24(20.0)	11(9.2)	1.54	6
Poor Access to credit /Fund	75(62.5)	40(33.3)	5(4.2)	1.69	1
Pest and disease infestation	78(65.0)	35(29.2)	7(5.8)	1.42	13
Poor and inadequate storage facilities	73(60.8)	41(34.2)	6(5.0)	1.58	4
Poor market information	65(54.2)	51(42.5)	4(3.3)	1.50	9
Inadequate processing facilities	57(47.5)	56(46.7)	7(5.8)	1.59	3
High interest rate on credit	70(58.3)	44(36.7)	6(5.0)	1.49	10
High cost of land and land	65(54.2)	48(40.0)	6(5.0)	1.48	11
Tenure problem					
Poor access to extension	69(57.5)	47(39.2)	3(2.5)	1.53	7
Services					
Poor access to market	65(54.2)	50(41.7)	5(4.2)	1.51	8
Poor access to improved	56(46.7)	61(50.8)	3(2.5)	1.44	12
Inputs					
Poor infrastructural	64(53.3)	41(34.2)	15(12.5)	1.62	2
Facilities					

Sources: Field survey 2025 Conclusion and Recommendation

Rice production in the area is a very rewarding and lucrative enterprise, as every naira invested in rice production in the area brings a profit of N6.26. The coefficients for grants, improved rice varieties, fertilizers, farm implements and herbicides were all positive and highly significant at 1% probability level. The following recommendation are provided from the study:

1. Government or NGO should provide access to loe- interest loans and grants for agricultural

2. Farmer should be allow to enhance access to reliable energy sources, including renewable energy options to power farms and rural business 3Establishment and upgrade storage facilities for crops and livestock products to reduce post harvest losses.

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