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Assessments of Profitability of Low Land Rice Production in Katcha Local Government Area of Niger State

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Department of Agricultural Economics and Extension Technology, Nigeria.

Abstract: The research was carried out to assess the profitability of lowland rice production in Katcha Local Abstract: The research was carried out to assess the profitability of tomaction is mostly predominant were Government Area of Niger State, Nigeria. Two districts where rice producers were row were randomly selected and 200 rice producers were row Government Area of Niger State, Nigeria. Two districts where rice producers were randomly selected and 200 rice producers were randomly purposively selected out of which ten villages were randomly selected village. Descriptive statistics couldn't purposively selected out of which ten villages were randomly selected village. Descriptive statistics and arm selected based on the proportion of rice farmers in each selected village. Descriptive statistics indicated that selected based on the proportion of rice farmers in each selected village. selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of rice farmers in each selected based on the proportion of the farmers were literated by the proportion of the farmers were literat budgetary model [FME] were used to analyse the data. The result of the farmers were literate with long lowland rice farmers were between the ages of 20-50 years. Majority of the farmers were literate with long lowland rice farmers were between the ages of 20-50 years. Majoris and the average total revenue is greater experience of rice production. Farm Budgetary Model [FBM] shows that the average total revenue is greater experience of rice production. experience of rice production. Farm Budgetary Model [FDM] shows than total cost of lowland rice production which indicates profit from lowland rice farmers. The average total than total cost of lowland rice production which indicates profit from problem encountered by the than total cost of lowland rice production which indicates profit from river Ghako which is the major problem encountered by the farmers revenue was N44400 while average total cost was N21705.7. The major of the farmers include flooding immediately after transplanting the seedlings from river Gbako which is the main source of water to the rice farms.

Keywords: Rice, Production, profitability,

Introduction I.

Nigeria economy is mainly an agrarian economy with over 70 percent of the country's 120 million people engage in agriculture and agricultural activities (CBN, 1996). Based on this, development of the country's agricultural sector is synonymous to achieving economic development. However, the contribution of agriculture to Nigeria's Gross Domestic product (G.D.P) is an indication that more still need to be done to resuscitate the sector (Ogundari, 2006). The contribution of agriculture to GDP was put at 41.3% in 2002 (CBN, 2003). The poor growth recorded in the sector is a reflection of food crisis currently experienced in the country in which the rate of population growth exceed the rate of food production. Food growth rate has been put at 2.5 percent and population growth at 3.5 percent leaving a food deficit at 1%. According to RIFAN (2006), Nigeria with the population of over 140 million people has variety of factors that favor rice production. National cereal Research Institute, through RIFAN has revealed that, Nigeria has approximately 5 million hectares of land suited for rice production. However, despites the large expanse of land for production of rice in Nigeria per capita consumption is very low, because Nigeria needs 5 million metric tons of milled rice per year and production was estimated to be about 3 million metric tons of milled rice leaving a short fall of 2 million metric tons which is augmented by importation (RIFAN, 2006). Statistic shows that self-sufficient rating for rice was 84% in 1998 and 2 million metric tons importation out of 5 million metric tons was estimated to cost about 300 million U.S. collars [FAO,2002]. This dampens the hope of possible improvement in the level of domestic rice production, in addition the Central Bank of Nigeria informed participants at RIFAN/CBN organised seminar that 578 million U.S dollars worth of rice was imported in 2002 [RIFA,2006]. Rice is the world most expensively cultivated crop and forms the staple food for over 50% of the world population. Rice is one of major food crop commodity that is of considerable involved to the world population. major food crop commodity that is of considerable importance for food security, expenditures and incomes of households, the demand for rice have been increasing at a security and incomes of the security of households, the demand for rice have been increasing at a much faster rate in Nigeria than in other West African countries (Akande, 2002). Domestic demand for rice is track faster rate in Nigeria than in other West African countries (Akande, 2002). countries (Akande, 2002). Domestic demand for rice is projected to rise to 7.5 million tons by 2013, on the assumption that demand rises at the level of 10% per annum, with demand for local rice growing at half the rate of imported rice (NRDS, 2009). The Nigeria rice industry, with demand for local rice growing at half the rate of imported rice (NRDS, 2009). The Nigeria rice industry is currently not competitive because it faces the following constraints: macroeconomic conditions under which Nigeria rice is produce is partly responsible for the sector's lack of competitiveness due to high cost of inputs.

the sector's lack of competitiveness due to high cost of inputs and problem of policy instability (Daramola, The demand for this crop in the study area is increasing because of its importance as a source of food ing countries farmer's professional uncertainty in which agricultures of its importance as a source of food and income. In view of the risk and uncertainty in which agricultural production takes place especially in the about developing countries, farmer's profitability need to be considered in such a way as to produce maximum output socio-economic characteristics of the countries of the countries of the countries farmer's profitability need to be considered in such a way as to produce maximum output socio-economic characteristics of the countries o developing countries, farmer's profitability need to be considered in such a way as to produce maximum outpostudy area and identify the major problems; determine the profitability were formulated for the study: describe the (Yahaya, 2007). Considering the above, the following objective in such a way as to product study area and identify the major problems; determine the profitability of low land rice production in the socio-economic characteristics of the respondents; determine the profitability of low rand study area and identify the major problems faced in the production of rice in the study area.

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Methodology

The study was carried out in Katcha Local government area of Niger state, Nigeria. The study area is The study area is well known for rice production especially Badeggi. The study area lies within latitude of 8°-10° North and well area are rainy (April to October 15°C. The study area enjoys tropical of the stu well known for the study area is with a mean temperature of 29.15°C. The study area enjoys tropical climate with two longitude 3°-8° East with a mean temperature of 29.15°C. The study area enjoys tropical climate with two longitudes are rainy (April to October) and dry (November to March) seasons. longitude 3 - 8 East North and Indigitude 3 - 8 These are rainy (April to October) and dry (November to March) seasons with an annual distinct seasons with an annual of between 1000mm - 1200mm (Misari, 2002). The Local Government was pure to the seasons with an annual of the seasons with a season distinct seasons. The local Government was purposively selected and dry (November to March) seasons with an annual rainfall of the preponderance of rice farmers in the area. For this study two districts were necessary selected rainfall of between various visit an annual rainfall of the preponderance of rice farmers in the area. For this study two districts were purposively selected because of the local government area because of their proximity to Gbako River when the selected because of the local government area because of their proximity to Gbako River where they practice low from 8 districts of and hence high concentration of low land rice farmers in the area. The selected districts are land rice cultivation. Simple random sampling technique was used to select five villages from each of the Badeggi and State of 200 low land rice farmers were randomly selected based on the proportional size of selected districts. A total of 200 low land rice farmers were randomly selected based on the proportional size of selected districts in each selected village. Primary data for the study was collected with aid of welllow land rice study was collected with aid of well-structured questionnaires. The information obtained include: socio-economic characteristics, number of plots owned, quantity of herbicides used in liters, quantity of fertilizer used in kilogram, farm tools used. Others owned, quality, owned, farming operations and returns from the rice farm. Descriptive statistics was used to determine socio economic characteristics of low land rice while farm budget model was used to find profitability of lowland rice farmers as stated below.

Farm budget model

Farm budget is a detailed physical and financial plan for the operation of a farm for a certain period. The aim of a farm budget is to compare the profit levels of different kinds of enterprises (Olukosi et al., 2005).

GFI - (VC + FC) -----(1) NFI Where:

Net Farm Income NFI = Gross Farm Income. GFI = Variable Cost. VC Fixed Cost

Table 1: Socio-economic characteristics of respondents in the study area (n = 200)

Age (Years)	Frequency	Percentage
21-30	70	35
31-40	54	27
41-50	49	24.5
Above 50	27	13.5
Education acquired	ACTION AND AND ADDRESS OF THE ACTION AND ADD	
Our ³ an	105	52.5
Western education	9	4.5
Qur'an and western Farming experience (Years)	86	43
<10	27	13.5
11-20	95	47.5
21-30	69	34.5
AL 21	9	4.5
Number of farm plots (hectares)		
₹0.5-1	78	39
1-2	79	39.5
Oc. Field cur	43	21.5

rield survey, 2013.

Age plays an important role in the farming activities as it determines the effectiveness and competence of labor availability for rice production. The result in Table 1 shows that Majority (86.5%) of the respondents within the Were within the prime age group of 21-50 years, this implies that, rice cultivation is done by young adult within the prime age group of 21-50 years, this implies that, rice cultivation is done by young adult within the prime age group of 21-50 years, this implies that, rice cultivation is done by young adult within the prime age group of 21-50 years, this implies that, rice cultivation is done by young adult within the prime age group of 21-50 years, this implies that, rice cultivation is done by young adult within the prime age group of 21-50 years, this implies that young adult within the prime age group of 21-50 years, this implies that young adult young young adult young adult young young adult young young adult young young adult young farmers within the prime age group of 21-50 years, this implies that, rice cultivation is done of your said 76.67% of the prime age bracket. This agrees with the findings of Adeola et al. (2008) and Sani et al. (2010) who have a fage. This is because these categories of the prime age bracket. said 76.67% of the farmers are within the age bracket of 30-49 years of age. This is because these categories of and said are still at farmers are still strong, have the ability to supply the require labor in agricultural activities to boost production in the agree of the farmers are literate. and also increase resource use efficiency. The result on Table 1 further revealed that all the farmers are literate better and adoption of rice production technology and in one way or the other. This could lead to increase in awareness and adoption of rice production technology and easily standard of living the other. This could lead to increase in awareness and adoption of rice production technology and easily standard of living the other. better standard of living of the farmers in the study area. This is because literate individual accept new technique responds. Table 1 also shows that majority (86.5%) of the estily and manage better than illiterates. The result in Table 1 also shows that majority (86.5%) of the study in the study in the study area. This is because literate individual accept new techniques and above. The years of farming experience tespondents in the study area. This is because the majority (80.576) in low land rice cultivation experience of 11 years and above. The years of farming experience in low land rice cultivation is expected to increase individuals' experience of better farm management practices

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Assessments of Profitability of Low Land Rice Production in Katcha Local Governments of Profitability of Low Land Rice Production in Katcha Local Governments

Assessments of Profitability of Long the cost and increasing the output. The Table also revealed that and resource use efficiency there by reducing the cost and increasing the output. The Table also revealed that and respectively have 0.5-1 and 1-2 hectares of low rice farm land. The small, fragmented and 39.9% of the respondents respectively have 0.5-1 low rice farm land acquisition was a smeather of low rice farm land acquisition was a smeather of low rice farm land acquisition was a smeather of low rice farm land. while only 21.5% of the farm lands may be explained by the fire through inheritance indicating scattered and scattered plots of the farm land rice farm land acquisition is through inheritance. The mode of low land rice farm land acquisition with Alimi (2001) who from his clear shall inheritance. The mode of low land rice farm land agrees with Alimi (2001) who from his clear shall inheritance. inheritance. The mode or low land live tariffication also agrees with mode in Nigeria because he obtained fragmented farm plots here and there. This study also agrees with mode in Nigeria because he obtained revealed that land acquisition through inheritance still remains a popular mode in Nigeria because he obtained scattered plots of the fairth tands that is the scattered plots of the fairth land rice farm land acquisition 15 with Alimi (2001) who from his clear studies inheritance. The mode of low land rice farm land acquisition with Alimi (2001) who from his clear studies inheritance. The mode of low land rice farm land acquisition is popular mode in Nigeria because he obtained farm plots here and there. This study also agrees with Alimi (2001) who from his clear studies inheritance farm plots here and there. This study also agrees with Alimi (2001) who from his clear studies inheritance farm plots here and there are the obtained farm plots here and there are the obtained farm plots here are the obtained farm plots here and there are the obtained farm plots here and there are the obtained farm plots here are the obtained farm plots here. 39% and 39.9% of the respondents respectively and acquisition of land acquisition which is through inheritance indicating scattered plots of the farm lands may be explained by the first hough inheritance indicating scattered plots of the farm lands may be explained by the hough is through who from his scattered plots of the farm land rice farm land acquisition with Alimi (2001) who from his scattered plots of the farm land rice farm land acquisition with Alimi (2001) who from his scattered plots of the farm land rice farm land acquisition with Alimi (2001) who from his scattered plots of the farm land rice farm land acquisition with Alimi (2001) who from his scattered plots of the farm land rice farm land acquisition with Alimi (2001) who from his scattered plots of the farm land rice farm land acquisition with Alimi (2001) who from his scattered plots of the farm land rice farm land acquisition with Alimi (2001) who from his scattered plots of the farm land rice farm land acquisition with Alimi (2001) who from his scattered plots of the farm land rice farm land acquisition with Alimi (2001) who from his scattered plots of the farm land rice farm land acquisition with Alimi (2001) who from his scattered plots of the farm land rice farm land acquisition with Alimi (2001) who from his scattered plots of the farm land rice farm land acquisition with Alimi (2001) who from his scattered plots of the farm land rice farm land acquisition with Alimi (2001) who from his scattered plots of the farm land rice farm land acquisition with the land rice farm land rice farm land acquisition with the land rice farm land rice and resource use efficiency there by recurring have 0.5-1 and 1 rice farm land. The small, fragmented and 39.9% of the respondents respectively have 0.5-1 and 1 rice farm land. The small, fragmented and 39.9% of the respondents have 2-3hectares of low ricethod of land acquisition which is the and while only 21.5% of the respondents have 2-3hectares of the ricethod inheritance indication is the and the captain lands are the explained by the strongth inheritance indication.

85% respondents as his result. Table 2: Distribution of respondents base on the level of yield (kg/ha) realized in the study area Paddy rice (kg/ ha) 600-700 701-800 901-1000 39.5 000

The average yield of paddy rice harvested was avour.

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The average yield of paddy rice harvested was avour.

The average yield of paddy rice have avour yield The average yield of paddy rice harvested was about 771.95kg/ ha. The table shows that the land for

transportation spraying cost, fertilizer application cost. Costs and return of paddy rice production in the study area

The average total cost of paddy rice production is made up of variable cost and fixed cost. Variable cost hectare. The average total cost of paddy rice production is made up of variable area was \$\frac{1}{2}21765.7\$ for the rice farmers per hectare. The average total cost of paddy rice production is made up of variable cost and fixed cost. Variable cost include cost of input like land preparation, weeding, harvesting, transplanting, threshing, winnowing,

Table 3: Average costs and revenue structure of paddy rice hectares in the study area

Items
Average indys 8.5 6.0 5.0 5.0 5.0

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Table 3 shows that expenditure on variable inputs dominated the production cost, accounting for 98.3% Table 3 shows that land production cost, accounting for 98.3% average total production cost, accounting for 98.3% respectively. The average total production cost accounting for 17.19 and 10.52% respectively. of the average total production cost. In the average total production cost. Depreciation was the land in the state of the average total production cost. Depreciation was the land inputs and the average total production cost. Depreciation was the land inputs proportion of the variance total production cost. Depreciation was the least contribution to the production cost. This study is in line with the finding of Baba et al. (1998) reported that variable cost was higher production cost. This contribution of rice. Gross farm income or total revenue is determined by multiplying the total out property of 19%) in the property of the property of the unit prize. Table 3 also shows the average gross revenue of \$144400. According to Olukosi and the pulls by (2005) gross margin analysis is highly used for subsistence system of farming to Olukosi and puls by the unit puls b component, and in a giving farm.

the net farm income is the total gross margin minus the fixed cost. The average net farm income was The first land the gross margin man days in monetary value is 1284.3 The gross ratio measured the overall lancess of a farm. The gross ratio is 0.49; meaning 49% of total control of the gross ratio measured the overall N22634.3 pet in gross ratio is 0.49; meaning 49% of total cost goes to production. The lower the ratio, the higher the return per naira invested

Table 3 also indicated that the production of rice in the study area was profitable. This is because, the per hectare is N23,050.00 and Net farm income is N22,634.30. The gross margin man day is gross margin Programmer of the person when employed earned N1284.3 in a day. The gross margin man day is N1,284.3k. This indicated that I person when employed earned N1284.3 in a day. The table also shows gross natio of 0.49 indicating that cost of production is 49%.

problems of low land rice production in the study area.

The analysis of the problems encountered by most of the low land rice farmers in the study area was more of climatic and biotic influences. These include heavy flood which washed the whole farm lands and the planted rice. Biotic influence includes quillea birds that cause a lot of damages to rice at milking stage leadings planted to low yield. Any attempt to control the birds cost farmers more money and energy. There was also financial constraint faced by the farmers, together with high cost of fertilizer and agro chemicals which are very vital in the production of low land rice.

Table 4: Distribution of rice farmers based on the problems face by the farme

Problems	Number of respondents	is face by the farmers
Quillea birds	90*	Percentage 26.7
Flooding off farm land	120°	35.2
High cost of fertilizer High cost of agro chemical	60*	70* 17.6
Total	340	100

Source Field Survey, 2013

Der COST ng,

> The table revealed that low land rice farmers in the study area (35.2%) are faced with the problems of flooding immediately after transplanting their seedlings from river Gbako which is the main source of water to therice farms. The astaric indicated multiple proble

ms this is to say all the rice farmers have more than one problem during the production. Conclusion

The study examined economics of low land rice production in Katcha local government area of Niger State It was empirically deduced that rice production in Katcha LGA is a profitable investment or undertaking. Most farmers are however operating under the substance system of farming. Hence, it is recommended that Government should introduce policies that will tayour commercial rice production through granting of agricultural loans with low intrest rates to farmers in the study area.

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^{*=} multiple responses

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