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Effect of Socio-Economic Characteristics of Farmers on Their Adoption of Organic Farming Practices

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1. Introduction

Organic farming is a form of agriculture which excludes the use of synthetic fertilizers, pesticides and plant growth regulators. The system also seeks to maintain the fertility demands of various crops to avoid excessive depletion of soil nutrients. Organic scientists and farmers in Africa, therefore deliberately integrates the age-long traditional organic system to enable a holistic development of the organic sector that would make use of the locally available resources, drawing from the pragmatic experiential knowledge of the farmers thereby making it highly relevant and acceptable to the majority of Africa. According to Parrot, Ssekyyew, Makunike, and Ntambi (2006), farmers have often resisted "Green revolution" viewing them not only as unsuitable but also risky and inaccessible. The concept of organic farming practices refers to the farm as an organism in which all the component parts (the soil minerals, plants, organic matter, micro-organisms, insects, animals including humans) interact to create a coherent and stable whole. Organic farming combines scientific knowledge of ecology and modern technology with traditional farming practices based on naturally occurring biological processes. Organic farming is based on ecological processes; knowledge of the agro-ecosystem is thus a pre-requisite to any organic farm. To this end, farmers with a traditional knowledge base are potentially better able to develop ecological processes. Traditional knowledge is not just a system for the present, but a source of institutional memory about what practices have worked best over time. Such knowledge has been described as a "reservoir of adaptations"; a whole set of practices that may be used again if the need arises (FAO, 2008).

Organic farming provides basis for maintaining environmental goods and services at the farm and landscape level. According to FAO, (2008), organic agriculture provides environmental goods and services. It promotes ecological resilience, improved biodiversity, healthy management of farms and the surrounding environment, and builds on community knowledge and strength. Hence, organic farming has been proved to be effective for enhanced adaptive capacity of farmers' socio-economic factors which necessitates social

changes that are sometimes unacceptable to the local community. This might be successful in some communities but not in others; no doubt these factors include age, gender, farmers household size, educational status, farm size, level of personal income, membership of cooperatives, access to credit, number of extension contacts, policy problems and prospects, poverty, closeness to markets infrastructural facilities provided such as roads, electricity, housing, schools, clinics, potable water. Gender plays a role in organic farming practices, despite the fact that women participate more than men in agriculture in developing world, they remain more malnourished and less economically empowered because of the past, generally development assistance failed to reach women in rural areas.

Kang (2007) explains that today mainstreaming of gender of all levels in the agricultural sector is actively being done in order to address the issue of gender disparities. Mgbada (2000), Rahman and Usman (2004), and Ibrahim et al (2000), noted that rural women contribute two thirds of the labor force spent in agricultural production and marketing by producing up to 60-80% of food and other products in Nigeria and Africa at large. Adu, Famiyide, Adejoba, Ojo, Thomas, and Adebavo (2003), claimed that majority of rural women took active part in agricultural production, in addition to their domestic activities women should be encouraged when it comes to farming since they are responsible for small scale agriculture farm labor force and day-to-day family sustenance. This implies if women are well empowered in terms of organic farming practices, this will help to reduce scarcity of food and poverty level in the country. Poverty, does not only affect organic farming but the rural people in developing counties, and when the people are affected the production system is also affected. Ekong (2003), sees poverty as not only an expression of life condition, but a state of mind and preparation of self in the complex web of social relations. The high poverty level in Nigeria is ironic given the vast human materials and natural resources present in the country. Interestingly, this is why the country was placed among the poorest nations.

Benefits of Organic Farming Practices

Organic farming is beneficial in agriculture because it provides basis for healthy foods and healthy living. Organic agriculture reduces external inputs by controlling pests and diseases naturally, with both traditional and modern methods, increasing both agricultural yields and disease resistance. Organic farming practices enhance soil structures, conserve water and ensure sustained biodiversity. Through its holistic nature, organic farming integrates agro-biodiversity and soil conservation, and takes low intensity farming one step further by eliminating the use of chemical fertilizers, pesticides and genetically modified organism, which is not only an improvement for human health and agro biodiversity, but also for the associated off farm communities. According to Food and Agriculture Organization (FAO, 2008), organic agriculture promotes ecological resilience, improved biodiversity, healthy management, off-farms and the surrounding environment, and building on community knowledge and strength.

Despite the fact that much progress has been made, problems resulting from pests and diseases are still a major reason for lower yields but this problem could be addressed through plant breeding efforts under the special conditions of organic farming practices. Organic agriculture seeks to utilize those advances for consistent yield benefits (new varieties of crops, agricultural technologies, more efficient machinery) while discarding those methods that have impacted negatively on the society. Rod (1990), stated that sustainable agriculture systems rely more on crop rotation, crop residues, animal manures,

legumes, green manures, off-farm organic waste, appropriate mechanized cultivation or minimal tillage to optimize soil biological control activities and thereby maintain soil fertility and crop fertility and crop productivity. According to Wikipedia (2007), organic farming technology relies on agronomic biological and mechanical method. This will help in environmental awareness and concern increase amongst the general population thereby enhancing inputs and sciences upon food because when technology and mechanical method has taken over it will take away some drudgery that which would have been a hindrance to increase in productivity.

Organic farming is beneficial when it comes to fauna and floral due to, in terms of its floral activities it helps to improve the soil fertility and this in turn increases the yield in crops while in fauna it is essential in the world of wildlife especially our livestock because most of our cattle's emits methane and we mostly produce them for its milk and meat, but with organic farming there is tendency for the grass which they feed on to grow all season of the year, this is to enable these livestock to still be in there physical health condition. Stolze (2000) reported that organic farming clearly performs better than conventional farming in respect to floral and fauna diversity, however it direct measure for wildlife and biotype conservation. Rigby and Caceres (2001), noted that in terms of soil, it is concluded that organic farming tends to conserve soil fertility and system stability. By conserving its soil fertility it will help the farmer to increase the humus content of the soil which will in turn improve the physical properties of the soil and support the life of micro-organism in the soil, which will help in increasing the pore spaces in the soil thereby improving drainage that aids to the stability of the soil structures and components.

Adoption of Organic Farming Practices

Rogers (1995), stated that the adoption of innovation is related to innovation decision process through which an individual passes from first knowledge of an innovation, to forming an attitudes towards the innovation, deciding to adopt or reject the innovation, implementing the new ideas, and confirming the innovation decision. This implies that organic farming can only be accepted by rural farmers when they have passed through the innovation to decision process and these farmers have picked interest concerning this because, when a farmer picks interest, he tends to seek for more information on his own and when this happens adoption can take place. Adoption models are generally based on the theory that farmers make decisions in order to maximize hand, farmers utility depends on optimizing the productivity and minimizing the cost of cultivation to attain maximum profits. Feder (1985), stated that farmers adopt or practice new technologies when they expect a more profitable outcome that is gained from the existing technology.

Optimizing this utility may also include considerations such as health benefits, environmental concerns, food security and risk (Napier, 2000). They further put explains that for an individual to go into adoption when it comes to organic farming he first wants to know if his health is at risk by finding out if the organic practice will be harmful to his crop and in turn becomes poisonous to human, and he will also consider that if he is using his farm for mixed cropping will organic farming practice enhance the growth of one plant and kill others or will the advantages be greater than the disadvantages before the farmers can finally adopt. The adoption of an innovation can be measured as the extent of its use, producing a continuous dependent variable, or simply the use of the innovation, with organic farming adoption defined as growing crops using organic method of cultivation. Adesina and Zinnah (2003) emphasized the impact of farmers perceptions on innovation related characteristics in measuring adoption. In this study organic farming practices, adoption was described as a mental process, farmers go through a stage or some stages of being aware or knowledgeable of organic farming related technology, to forming positive or negative perception towards organic farming and ultimately decide weather to adopt or not. This process can be influenced by a wide variety of factors, including household factors (socio-economic, resource base), community factors (access to extension, market, credit) and perception towards organic farming. Rogers (2003), reviews that diffusion theory provides a model for the diffusion-innovation process, which extension professionals as change agents can use as a media which will attract innovators and early adopters. According to Rogers (2003), the five important attributes of innovation decision process summarized by Rogers are relative advantage, compatibility, complexity, observable and trial.

When all these attributes are put together with the guide of an extension agent it enhances or speeds up adoption and farmers will be willing to adopt despite the formal mindset the farmer had towards adoption. The perceived attributes of an innovation would vary according to individuals different personal characteristics (age, communication channels). Perception about these attributes of innovation will influence adoption behavior. Based on adoption, Rogers (2003), divided innovation adopters into five category; innovators, early adopters, early majority, late majority and laggards. Each category of adopters has different characteristics according to their socio-economic status, personality values, and communication behavior. This implies that how the extension service tends to communicate with the farmers because, when you communicate wrongly to the farmers there is the tendency of message misinterpretation and this will affect adoption. Rogers (2003), defined interpersonal delivery method as a face-to-face exchange between individuals. This explains that the extension services can speak to the farmer based on face-to-face contact were if the farmer has difficulty in any of the stages he can share with the extension agent and the correction will be made.

The main objective of the study was effect of socio-economic characteristics of farmers on their adoption of organic farming practices. Specifically, the study describes the sociodemographic characteristics of the respondents, determine the level of adoption of organic farming practices, determine the perceived benefits of using organic farming practices among respondents and determine the relationship between socio-economic characteristics of farmers and their adoption of organic farming practices.

2. Methodology

The study was carried out in Rivers State in Niger Delta, Nigeria. The sampling frame consisted of a list of farmers obtained from the Rivers State Agricultural Development Programme, the sole agency of Agricultural Extension activities in the State. A structured questionnaire was administered to 90 randomly selected farmers from the study area. Data analysis was by the use of frequency, mean, percentage, and Pearson correlation.

In order to measure the level of adoption (dependent variable), 14 items (organic farming practices) were presented to the respondents based on a 7-point scale of Not aware (NA) = 1, Aware (A) = 2, Interest (I) = 3, Evaluation (E) = 4, Trial (T) = 5, Adoption (A) = 6, Discontinuance (Discont) = 7. The independent variables (socio-economic characteristics) were analyzed thus; Gender (Male = 1, Female = 2); Age of farmers (years); Highest educational qualification (No formal education=1, Adult education=2, Primary=3,

Secondary=4, Tertiary=5). Household size (number of persons in a household); Extension visit (Yes =1, No = 2); Membership of cooperatives societies (Yes =1, No =2); Farming experience (years); Marital status (Single =1, Married = 2); Sources of information (friends/relatives/neighbor =1, Extension agent =2, Radio=3, Television=4, Newspaper=5, others =6)

3. Results and discussion

Table 1 shows that 34.4% of the farmers were male, while 65.6% were female. From the table it is obvious that majority of the respondents are females. Also, 14.4% of the farmers were between the ages of 31and 40 years old, 36.7% were between 41 and 50 years, 26.7% were between 51 and 60 years, while 22.2% were 61 years and above. The findings revealed that, a significant proportion of the farmers were between 41 and 50 years indicating that the farmers were mainly middle aged who are in their economically active stage and as such, can undergo the stress and this has implication for productivity of the farmers.

The result from the Table 1 shows that 26.7% of the farmers had no formal education, 33.3% had adult education, 22.2% of the farmers had primary education while 6.7% of the farmers attained primary education and 11.1% received tertiary education. The findings show that the a higher proportion of the respondents had adult education qualification (33.3%). Findings show that a reasonable percentage (48.9%) of the farmers had 6 to 10 members in their households. About 32.2% of the farmers were single, while 67.8% of the farmers were married. It was also found that 32.2% of the farmers were members of cooperative societies while 67.8% were not. Since majority were not members of cooperative societies, their access to farm resources like agro-inputs, credits and even extension contact might be lean and this would not encourage adoption.

Findings showed that 56.7% of the respondents had 6 to 10 years farming experience, 42.2% have been visited by extension agents, while 57.8% were not visited by extension agents. This is not too good because visit or contact with extension provides opportunity for transfer of skill, knowledge and information which facilitate adoption.

About 44.4% of the farmers know about organic farming practices through friends/relatives/ neighbors, 27.8% of the farmers know about the practice through extension visit, 7.8% of the farmers got to know about the practice through radio, 4.4% got the information through television, while 7.8% of the farmers got to know about organic farming through the newspaper.

Variables	Frequency	Percentage
Gender	1 2	U
Male	31	34.4
Female	59	65.6
Age (Years)		
31-40	13	14.4
41-50	33	36.7
51-60	24	26.7
61 and above	20	22.2
Highest Educational Qualification		
No formal education	24	26.7
Adult education	30	33.3

Primary education	20	22.2
Secondary education	6	6.7
Tertiary	10	11.1
Household Size		
1-5	15	16.7
6-10	44	48.9
11-15	30	33.3
16 and above	1	1.1
Marital Status		
Single	29	32.2
Married	61	67.8
Membership of cooperative societies		
Yes	29	32.2
No	61	67.8
Years in Organic Farming Practices		
1-5	9	10.0
6-10	51	56.7
11-15	17	18.7
16 and above	13	14.1
Extension visit		
Yes	38	42.2
No	52	57.8
Sources of Information		
Friends/Relations/Neighbours	40	44.4
Extension Agents	25	27.8
Radio	7	7.8
Television	4	4.4
Newspaper	7	7.8
Others	7	7.8

Source: Field Survey, 2010.

Table 1. Socio-Economic characteristics of respondents (n=90)

4. Adoption of organic farming practices

The result in Table 2 indicated that about 68.9% of the farmers adopted the practice of crop rotation and mixed cropping as the major organic farming practices respectively, hoeing and hand weeding had 63.3%, and slash and burn were 58.9% while intercropping recorded 50.0%.

From the findings it is obvious that farmers adopted five (5) out of fourteen (14) listed organic farming practices, giving an adoption rate of 35.7%. This indicates that level of adoption of organic farming practices is generally low; this could be as a result of the strenuous nature of some of the practices like hand picking of insects, tillage with sticks. The farmers are not very convinced about its merits, inability and poor disposition of farmers as well as the inability of extension visit to facilitate their adoption.

ORGANIC FARMING PRACTICES	NA	А	Ι	Е	Т	А	DISCONT.
Crop Rotation	2(2.2)	14(15.6)	6(6.7)	3(3.3)	3(3.3)	62(68.9)	0(0)
Mixed Cropping	0(0)	13(14.4)	4(4.4)	2(2.2)	6(6.7)	62(68.9)	3(3.3)
Use of green manure	1(1.1)	14(15.6)	14(15.6)	14(15.6)	29(32.2)	18(20.0)	0(0)
Use of compost	3(3.3)	13(14.4)	20(22.2)	18(20.0)	19(21.1)	15(16.7)	2(2.2)
Hand picking of insects	12(13.3)	16(17.8)	29(32.2	19(21.1)	8(8.9)	3(3.3)	3(3.3)
Use of leaves as mulching materials	14(15.5)	18(20.0)	18(20.0)	10(11.1)	10(11.1)	19(21.1)	1(1.1)
Hoeing/weed removal by hand	4(4.4)	15(16.7)	5(5.6)	4(4.4)	4(4.4)	57(63.3)	1(1.1)
Slash and burn	9(10.0)	13(14.4)	4(4.4)	0(0)	9(10.0)	53(58.9)	2(2.2)
Tillage with sticks	11(12.2)	29(32.2)	13(14.4)	5(5.6)	13(14.4)	8(8.9)	11(12.2)
Use of air tight containers for storage	10(11.1)	20(22.2)	19(21.1)	13(14.4)	9(10.0)	16(17.8)	3(3.3)
Sun drying of farm produce	2(2.2)	16(17.8)	18(20.0)	14(15.6)	10(11.1)	30(33.3)	0(0)
Use of organic manures	3(3.3)	21(23.3)	18(20.0)	8(8.9)	19(21.1)	21(23.3)	0(0)
Inter cropping	6(6.7)	20(22.2)	4(4.4)	4(4.4)	9(10.0)	45(50.0)	2(2.2)
Tree/hedges planting	4(4.4)	24(26.7)	10(11.1)	6(6.7)	4(4.4)	7(7.8)	35(38.9)

NA; Not Aware, A; Awareness, I; interest, E; Evaluation, T; Trial, A; adoption, Discont; discontinuance Figures in parenthesis are in percentages

Source: Field Survey, 2010.

Table 2. Level Of Adoption Of Organic Farming Practices

5. Perceived benefits of using organic farming practices

Fig. 1 shows that 41.1% of the respondents perceived that organic farming practices increased soil organic matter content, 22.2% perceived that they reduce input cost of farming, 26.7% perceived that they involved low risk in crop failure. Also, 81.1% indicated that it has a high social value of general acceptability. About 84% indicated that organic farming practices are compatible with their own cultural systems, 77.8% stated that they are inexpensive, 55.6% stated that organic farming practices are natural form of farming, while 22.2% indicated that they are environmentally friendly.



Fig. 1. Perceived benefitsof organic farming practices

6. Relationship between socio-economic characteristics of farmers and adoption of organic farming practices

Table 3 shows the results on relationship between socio economic characteristics of respondents and adoption of organic farming practices. From the findings only two variables correlated significantly with adoption of organic farming practices.

VARIABLES	r-VALUES
SEX (GENDER)	0.028
AGE	- 0.155
EDUCATIONAL QUALIFICATION	0.053
HOUSEHOLD SIZE	0.065
MARITAL STATUS	- 0.221*
MEMBERSHIP OF COOPERATIVES	0.084
FARMING EXPERIENCE	-0.277**
EXTENSION VISIT	- 0.001
SOURCES OF INFORMATION	0.020

* = Significant at 0.05% level; ** = Significant at the 0.01 level

Table 3. Correlation coefficient of socio-economic characteristics of farmers and adoption of organic farming practices

Farming experience is negatively correlated with adoption of organic farming practices and significant at 0.01 level. This implies that there exist an inverse relationship between farmers experience and adoption which means that those with less farming experience have higher adoption level. This is in consonance with the findings by Edeoghon's (2008), who reported

that farmers usually are more involved in practices that they are more familiar with than other practices. The findings also agree with the literature that organic producers are newer entrants to farming (Padel, 2001). This can be attributed to the fact that farmers who have been long in the business are usually older, less educated and more resistant to change than new entrants.

Marital status of farmers was found to be negatively correlated with adoption of organic farming practices which means there is an inverse relationship, but is significant at 0.05 level which means if both variables are cordial there would be increase in adoption. Marital status of respondents was an important factor in adoption of organic farming practices. This is in line with Ekong (2000), Nwachukwu and Jibowo (2000), Bamneke (2003), who reported that majority of respondents involved in agricultural activities are married.

7. Conclusion

The study concludes that adoption of organic farming practices was low as farmers adopted only 5 of the 14 practices identified. These include crop rotation, mixed cropping, hoeing and hand weeding, slash and burn and intercropping. It was found that respondents perceived that organic farming practices increased soil organic matter content, reduce input cost of farming, involved low risk in crop failure. Also, it was found that organic farming practices have high social value of general acceptability, are compatible with their own cultural systems, are inexpensive, are natural form of farming, and are environmentally friendly.

8. Recommendations

There is need to intensify efforts to make agricultural extension services more functional so that farmers can get useful information to enhance adoption of organic farming practices. Farmers should be encouraged for form and belong to cooperatives to facilitate group dynamism. Adequate enlightenment programmes should be mounted on organic farming practices so that more farmers can adopt.

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Crop Production Technologies

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Crop production depends on the successful implementation of the soil, water, and nutrient management technologies. Food production by the year 2020 needs to be increased by 50 percent more than the present levels to satisfy the needs of around 8 billion people. Much of the increase would have to come from intensification of agricultural production. Importance of wise usage of water, nutrient management, and tillage in the agricultural sector for sustaining agricultural growth and slowing down environmental degradation calls for urgent attention of researchers, planners, and policy makers. Crop models enable researchers to promptly speculate on the long-term consequences of changes in agricultural practices. In addition, cropping systems, under different conditions, are making it possible to identify the adaptations required to respond to changes. This book adopts an interdisciplinary approach and contributes to this new vision. Leading authors analyze topics related to crop production technologies. The efforts have been made to keep the language as simple as possible, keeping in mind the readers of different language origins. The emphasis has been on general descriptions and principles of each topic, technical details, original research work, and modeling aspects. However, the comprehensive journal references in each area should enable the reader to pursue further studies of special interest. The subject has been presented through fifteen chapters to clearly specify different topics for convenience of the readers.

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