

Volume 6, Number 4, December, 2023

ISSN (Print): 2651-6144; ISSN (Online): 2651-6365 Website:http://www.jasd.daee.atbu.edu.ng

### INFORMATION NEEDS OF COCONUT FARMERS IN BADAGRY LOCAL GOVERNMENT AREA OF LAGOS STATE, NIGERIA

<sup>1\*</sup>Taiwo, A. M., <sup>2</sup>Hussain, L. A., <sup>3</sup>Ogunleye, F. O. and <sup>1</sup>Oladeji, J. O.

<sup>1</sup>Department of Agricultural Extension and Rural Development, University of Ibadan, Nigeria 
<sup>2</sup>Department of Agricultural Science, Lagos State University of Education, Oto/Ijanikin, Lagos.

<sup>3</sup>Department of Agricultural Extension and Rural Development, Lagos State University, Epe Campus.

\*Corresponding Author's Email: abioduntaiwo34@gmail.com

GSM: +2348038479746

#### **ABSTRACT**

The study focused on information needs of coconut farmers in Lagos State, Nigeria. Simple random sampling technique was used to select 120 respondents for the study. Data were collected on the respondents' personal characteristics, sources of information available to the respondents, respondents' level of awareness of improved coconut production technologies, perceived effect of lack of information on coconut production and information needs of the respondents using a structured questionnaire. Data were analyzed using frequency counts, percentages, mean, standard deviation and Pearson Product Moment Correlation. Results showed that the mean age of the respondents was 45 years, 68.3% were male, 75.8% were married, 60% were Yoruba, while mean years of formal education was 9. The most utilized sources of information among the respondents were contact/fellow farmers  $\bar{x}$ =3.68. On the level of awareness of the respondents on coconut production technologies, majority of the respondents were fully aware of transplanting of seedlings  $\bar{x}$ =2.74. Perceived major effect of lack of information on coconut production was non-awareness of processing methods  $\bar{x}$ =3.91. The major information need of the respondents was on improved nursery practices  $\bar{x}$ =2.78. Correlation analysis showed there was significant relationship (r=0.36; p=0.00) between respondents' level of awareness of coconut production technologies and their information needs. The study concluded that among the information needs of the farmers, the major information need was on improved nursery practices. It is therefore recommended that extension agents intensify efforts in liaison with research institutes for information on improved nursery practices to meet farmers need in coconut production.

Key Words: Coconut, Farmers, Information, Needs and Production

#### INTRODUCTION

The present age has been rightly called an Information Age. Information has become the most important element for progress in society. Everyone needs information about everything even in day-to-day life. Information can be seen as a resource that can liberate man. In other words, "an informed mind is an enriched mind". Every rational being needs some information for his day-to-day existence and wellbeing. No society can grow beyond its level of information awareness, acquisition and appropriation (Helen, 2012). Information is an important tool used in the realization of any objective or goal set by individuals, thus it remains the lifeblood of any individual or organization. It is a valuable resource required in any society; thus, acquiring and using information are critical and important activities. In a similar vein, Ekoja (2010) said information is required for individual growth and development and by extension, societal growth and change. He further said it is needed for personal, social and/or work –related activities of individuals and for the development of societies and states.

Apata and Ogunrewo (2010) view information as power and an important working tool for the advancement of human and society. Societies that do not have access to the information they



Volume 6, Number 4, December, 2023

ISSN (Print): 2651-6144; ISSN (Online): 2651-6365 Website:http://www.jasd.daee.atbu.edu.ng

need will sooner or later be left behind in terms of cultural and technological development. In agriculture environment, relevant and timely information helps farmer's community to take right decision to sustain growth of agricultural activities. Use of information in agriculture sector is enhancing farming productivity in a number of ways. Providing information on weather trends, best practice in farming, timely access to market information, helps farmer make correct decisions about what crops to plant and where to sell their product and buy inputs (Bachhavn, 2012).

There is no agreed definition of information needs as a phrase among information professionals (Nicholas and Herman, 2009). However, these authors provided a working definition or understanding that an information need is information that enhances research or improves a job; when an anomaly is seen, people want this corrected. Simply put by Nicholas and Herman (2009), an information need is the "need for information that individuals ought to have in order for them to perform their job effectively". It is often believed that information need may exists when there is a gap between the state of the present knowledge possessed by somebody and that which they need to deal with some particular issues or solve some problems or handle a present situation. These information needs are various, multi-dimensional, dynamic and not subject to generalization. Concluding a study of change agents and information provision in rural communities, Okeh (2002) pointed out that if information needs have to be met, they must be carefully identified by change agents who have to rely on accurate, accessible and useful sources or channels.

Coconut (*Cocos nucifera*) is a tropical monocotyledon plant which belongs to the order Aracacceae and the family Palmae. It is an important crop in the agrarian economy of many countries providing food, drink, shelter and raw materials for industries (Nair *et al.*, 2003). The coconut tree (*Cocos nucifera* L, also known as the Coconut palm) is grown in 92 countries of the tropics (FAOSTAT, 2008), where it is used for domestic use, as a source of food, oil production and for construction materials. The shells are used directly as fuel and in making household articles. Worldwide, about 83% of the coconuts are produced in Asia where Indonesia is the largest producer with 3.0 million ha that produce about 18.3 million tons of nuts, followed by Philippines that has an area of 3.5 million ha with production of 15.35 million tons of nuts. India has an area of 2.1 million ha that produce about 11.9 million tons of nuts (FAOSTAT, 2014).

Without adequate information, particularly to the rural farmers, there will be lack of awareness about new developments within the agricultural sector and this may lead to low productivity and consequently a danger to the survival of the nation. The inability of the rural farmers to seek for information may result in poor production output, food insecurity, inability to feed the nation. Lack of investment in information may also result in the creation of an information-poor society.

Furthermore, studies in the past have not addressed information needs of coconut producers. Rather efforts were made on other crops; information needs of oil palm farmers (Ajayi, et al., 2010), information needs of rice farmers (Oladeji and Oyesola, 2000) and information needs of cassava farmers (Omoregbee and Banmeke, 2014). Also, Aina (2004) observed that the poor access to information and training by tree/permanent crop farmers was due to the initial policy formulation of Agricultural development Programme (ADP) which was mainly directed at arable crops. Even when exposed to information, cursory observation revealed that most information disseminated by ADPs, Nigeria Institute for Oil pam Research (NIFOR) and other related institutions are usually given without needs identification and this has implication for capacity building (Ajayi et al., 2010). Similarly, Ozowa (2004), no one can categorically claim to know all



Volume 6, Number 4, December, 2023

ISSN (Print): 2651-6144; ISSN (Online): 2651-6365 Website: http://www.jasd.daee.atbu.edu.ng

the information needs of farmers especially in an information dependent sector like agriculture where there are new and rather complex problems facing farmers every day. Identifying information needs of coconut farmers could stimulate research activities aimed at solving farmers' problems as well assisting agencies involved in extension services to design and disseminate appropriate information to farmers.

Hence, the study determined the information needs of coconut farmers in the study area. The specific objectives examined included; socioeconomic characteristics of respondents, sources of information available to the respondents, respondents' level of awareness of improved coconut production technologies, respondents' perceived effect of lack of information on coconut production and the specific information needs of respondents. The study tested relationship between respondents' level of awareness on coconut production technologies and their information

### MATERIALS AND METHODS

### The Study Area

The study was carried out in Lagos state, specifically in Badagry Local Government Area. Badagry is a coastal town in the state. It is situated between Metropolitan Lagos, and the border of the Republic of Benin at Seme. As of the preliminary 2006 census results, the municipality had a population of 241,093. (Federal Republic of Nigeria Official Gazette, 2007). The population of the study consisted of all the registered coconut farmers in Badagry Local Government. A Multi stage sampling procedure was used for this study. The first stage was the purposive selection of Badagry Local Government Area of Lagos State due to its peculiarity with coconut production. The second stage involved the random selection of ten (10) communities from Badagry Local Government Area. The third stage was the random selection of twelve (12) coconut farmers from each of the selected communities to make a total of 120 respondents. Data for the study were gathered through administration of structured questionnaire. Level of awareness of improved coconut production technologies among respondents was measured using a three (3) point scale. Data were analyzed using frequency counts, percentages, mean, standard deviation and Pearson Product Moment Correlation (PPMC) at 0.05 level of significance.

#### RESULTS AND DISCUSSION

### **Socioeconomic Characteristics of the Respondents**

Result in Table 1 shows that the mean age of the respondents was 45 and this implies that majority of the respondents were agile and still very active. According to Umar et al. (2015) it was discovered that the age of individuals affects their mental attitude towards new ideas. Male respondents made up 68.3% of the of the farmers. This is however expected considering the hectic nature of agricultural activities (Fapojuwo et al., 2021), the percentage of female respondents recorded points to the fact that women are now increasing their participation in perennial and labour-intensive crops. Majority (75.8%) of the respondents were married. This indicates that many of the respondents have family responsibilities and this should enable them seek information to increase production in order to meet demands. On the basis of religion, about half (48.3%) of the respondents were Christians and majority (60%) were Yoruba. Though close interaction revealed they are originally of the minority tribe (Ogu) but subsumed into Yoruba for recognition. The mean years of formal education among the respondents was nine (9).

Table 1: Distribution of respondents' socioeconomic characteristics (n=120)





Volume 6, Number 4, December, 2023
ISSN (Print): 2651-6144; ISSN (Online): 2651-6365 Website:http://www.jasd.daee.atbu.edu.ng

	44; ISSN (Online): 2651-6365		Website:	http://www.jasd.daee.d
Variables	Frequency	Percentage	$\overline{x}$	Std. d
Age			45	10.4
≤ <b>3</b> 0	13	10.8		
31 - 40	30	25.0		
41 - 50	42	35.0		
≥ 51	35	29.2		
Sex				
Male	82	68.3		
Female	38	31.7		
Marital status				
Single	9	7.5		
Married	91	75.8		
Divorce	5	4.2		
Widowed	15	12.5		
Religion				
Christianity	58	48.3		
Islam	39	32.5		
Traditional	23	19.2		
Tribe/Ethnic group				
Hausa	11	9.2		
Igbo	37	30.8		
Yoruba	72	60.0		
Education			9	3.7
$\leq 6.00$	39	32.5		
7.00 - 12.00	64	53.3		
13.00+	17	14.2		
Other forms of education				
Islamic	23	19.1		
Vocational	55	45.8		
Nomadic	10	8.3		
Adult	32	26.7		
Household size			6	2.0
$\leq$ 4.00	37	30.8		
5.00 - 7.00	65	54.2		
	10	15.0		
8.00+	18			
<b>Primary Occupation</b> Livestock	40	33.3		
Cropping	43	35.8		
Processing	11	9.2		
Artisan	11	9.2		
Trading	15	12.5		

Field survey, 2022.



Volume 6, Number 4, December, 2023

ISSN (Print): 2651-6144; ISSN (Online): 2651-6365 Website:http://www.jasd.daee.atbu.edu.ng

More than half (53.3%) of the respondents had between 7 - 12 years of education. This suggests that there is a low level of education among the respondents in the study area. This result agrees with the view of Quisumbing and Meinzen – Dick (2001) who reported that many countries in sub-Saharan Africa have low level of education and that improving their education would probably increase agricultural productivity and reduce poverty." About 45.8% of the respondents also claimed to be vocationally trained in one field or the other as an alternative or secondary source of income. The mean household size of the respondents was 6 persons per household. Cropping (35.8%) and rearing of livestock (33.3%) were the dominant primary occupation in the study area.

### Sources of information available to Respondents.

Access to information is one the most valuable resources in agricultural development (Adekoya, 2016). The result in Table 2 shows how the respondents got their information on coconut production technologies. The mean score shows that respondents accessed information on coconut production technology mostly through fellow farmers (contact farmers) ( $\bar{x}$ =3.68), neighbours and friends ( $\bar{x}$ =3.37), radio ( $\bar{x}$ =3.31) and social groups ( $\bar{x}$ =3.19). The most popular source of information among respondents was fellow farmers. The reliance on fellow farmers for information could be as a result of proximity, costlessness of such source and easy access to fellow farmers. The implication is that an approach that can be used to create awareness of a technology as well as enable technology dissemination is to use model farmers and the communication can trickle down to the rest of the farming households.

Table 2: Sources of information available to the respondents (n=120)

S/N	Sources of information	Always	Occasional	Rarely	Never	$\overline{x}$	SD	Rank
			ly	-				
1	Radio	62(51.7)	42(35.0)	11(9.2)	5(4.1)	3.31	0.84	$3^{\rm rd}$
2	Fellow farmers (Contact							
	farmers)	87(72.5)	29(24.2)	4(3.3)	-	3.68	0.55	$1^{st}$
3	Television	36(30)	43(35.8)	29(24.2)	12(10)	2.87	0.95	$8^{th}$
4	Extension agents	45(37.5)	48(40)	22(18.3)	5(4.2)	3.12	0.84	$5^{th}$
5	Neighbours and Friends	74(61.7)	26(21.7)	14(11.6)	6(5)	3.37	0.92	$2^{nd}$
6	Non-Governmental							
	Organizations	26(21.7)	66(55)	24(20)	4(3.3)	2.93	0.75	$7^{\mathrm{th}}$
7	Bulletin/Magazines/Posters	15(12.5)	46(38.3)	35(29.2)	24(20)	2.44	0.94	$10^{th}$
8	Social groups	61(50.8)	27(22.5)	30(25)	2(1.7)	3.19	0.90	$4^{th}$
9	Research institutes	33(27.5)	41(34.2)	32(26.6)	14(11.7)	2.74	0.98	9 <sup>th</sup>
10	Informal training through							
	workshops/seminars	51(42.5)	41(34.2)	22(18.3)	6(5)	3.10	0.91	$6^{th}$

Source: Field survey, 2022

### Respondents' level of awareness of improved coconut production technologies

Result in Table 3 presents the respondents' level of awareness of improved coconut production technologies. From the result, respondents demonstrated awareness of all the technologies at different rating but in increasing order of mean score, awareness was more on transplanting of seedling ( $\bar{x}$ =2.74), mulching of seedlings ( $\bar{x}$ =2.68), hybrid seed selection  $(\bar{x}=2.63)$ , application of manure  $(\bar{x}=2.57)$  and safe transportation to market  $(\bar{x}=2.63)$ . This implies that respondents desire for knowledge would increase on seedling transplanting, mulching of seedlings, hybrid seed selection, application of manure and transportation. According to Oladeji and Oyesola (2000), farmers may be aware of certain farm practices, but may not know how to carry out such operations if there is no further information on the practices. Generally, result in

Volume 6, Number 4, December, 2023

ISSN (Print): 2651-6144; ISSN (Online): 2651-6365 Website:http://www.jasd.daee.atbu.edu.ng

Table 4 reveals that level of awareness of improved coconut production technologies was high among majority (65.8%) of the respondents while 34.2% of them had low level of awareness.

Table 3: Respondents' level of awareness on coconut production technologies

S/N	Recommended	Fully	<b>Partially</b>	Not	$\overline{x}$	Std. d
	practices(n=120)	aware	aware	aware		
1	Hybrid seed selection	84(70)	27(22.5)	9(7.5)	2.63	0.61
2	Nursery establishment	55(45.8)	57(47.5)	8(6.7)	2.41	0.61
3	Nursery management	89(74.2)	27(22.5)	4(3.6)	2.49	0.55
4	Transplanting of seedlings	93(77.5)	25(20.8)	2(1.7)	2.74	0.48
5	Mapping and planting into the					
	field	71(59.1)	38(31.7)	11(9.2)	2.51	0.64
6	Mulching of seedlings	76(63.3)	27(22.5)	17(14.2)	2.68	0.73
7	Application of manure	80(66.7)	28(23.3)	12(10)	2.57	0.67
8	Use of organic herbicides	68(56.7)	27(22.5)	25(20.8)	2.36	0.81
9	Regular pest and disease					
	control	71(59.2)	32(26.7)	17(14.1)	2.45	0.73
10	Pruning	72(60)	38(31.7)	10(8.3)	2.51	0.64
11	Intercropping	74(61.7)	32(26.7)	14(11.6)	2.49	0.70
12	Selective harvesting	74(61.7)	35(29.1)	11(9.2)	2.53	0.64
13	Safe transportation to market	80(66.7)	24(20)	16(13.3)	2.56	0.70

Source: Field survey, 2022

Table 4: Categorization of respondents' level of awareness of coconut production technologies

Level	Range	Frequency	Percent	Minimum	Maximum	Mean	Std. d.
Low	0 - 19.92	41	34.2	0.00	26.0	19.93	3.68
High	19.93 - 26	79	65.8				
Total		120	100.0				

**Source:** Field survey, 2022

### Respondents' perceived effects of lack of information on coconut production

Result in Table 5 presents the respondents' perceived effects of lack of information on coconut production. For ease of reporting, strongly agreed and agreed response options were merged to form "agreed" while strongly disagreed and disagreed response options were merged to form "disagreed". Majority (64.2%) of the respondents agreed that lack of information on coconut production could bring about low income, low yield from farm was part of the effect of lack of information on coconut production as agreed by 65% of the farmers in the study area, while many (73.4%) of the respondents agreed lack information could lead to continuous use of local technology in coconut production. Most (80%) of the respondents agreed that non-awareness of processing methods was one of the effects of lack of information on coconut production. Low pricing due to glut in the market, problem of inputs and credit facilities and non-awareness of improved coconut varieties were also part of the perceived effects of lack of information on coconut production as agreed to by 61.7%, 70.8% and 67.5% of the respondents in the study area. Information is a vital resource that drives any human process including agriculture. It should however be noted that farmers are in the best position to determine whether any information is of greater value to meet their needs (Morris and Stilwell, 2003).



Volume 6, Number 4, December, 2023

ISSN (Print): 2651-6144; ISSN (Online): 2651-6365 Website: http://www.jasd.daee.atbu.edu.ng

Table 5: Respondents' Perceived effects of lack of information on coconut production

S/N	Effects on lack of	SA	$\mathbf{A}$	U	D	SD	$\overline{x}$	Std. d
	information (n=120)							
1	Low income from							
	coconut production	26(21.7)	51(42.5)	22(18.3)	14(11.7)	7(5.8)	3.58	1.13
2	Low yield from farm	23(19.2)	55(45.8)	15(12.5)	18(15)	9(7.5)	3.51	1.18
3	Continuous use of local							
	technologies	35(29.2)	53(44.2)	10(8.3)	14(11.7)	8(6.6)	3.73	1.23
4	Non-awareness of							
	processing methods	27(22.5)	69(57.5)	13(10.8)	9(7.5)	2(1.7)	3.91	0.91
5	Low pricing due to glut							
	in the market	24(20)	50(41.7)	30(25)	13(10.8)	3(2.5)	3.68	0.97
6	Problem of inputs and							
	credit facilities	27(22.5)	58(48.3)	21(17.5)	2(1.7)	12(10)	3.75	1.10
7	Non-awareness of							
	improved coconut							
	varieties	38(31.7)	43(35.8)	17(14.2)	19(15.8)	3(2.5)	3.79	1.11
8	Low contribution to							
	GDP	3(2.5)	42(35)	37(30.8)	15(12.5)	23(19.2)	2.87	1.17

Source: Field survey, 2022

#### **Information needs of the respondents**

Result on information needs of coconut farmers as shown in Table 6 reveals that respondents needed information on improved nursery practices ( $\bar{x}$ =2.78), improved varieties of coconut ( $\bar{x}$ =2.62), handling and processing ( $\bar{x}$ =2.62) and marketing ( $\bar{x}$ =2.68). This implies that there is dearth of information among the farmers on improved nursery practices, improved varieties of coconut, handling and processing, and marketing in the study area.

Categorization of respondents based on their information needs, as reported in Table 6, it can be observed that 57.7% of the respondents were in high need for coconut production information, while 42.3% were in low need. There is high need for information in coconut production operations in the study area. This indicates that the respondents in the study area were not operating efficiently and optimally in coconut farming practices.

Table 6: Information Needs of the Respondents (n=120)

S/N	Information needs	Highly needed	Occasionally needed	Not needed	$\overline{x}$	Std. d
1	Improved Nursery Practices	97(80.8)	18(15)	5(4.2)	2.78*	0.50
2	Credit facilities	72(60)	27(22.5)	21(17.5)	2.43	0.78
3	Weed control	52(43.3)	45(37.5)	23(19.2)	2.28	0.73
4	Improved varieties of coconut	85(70.8)	23(19.2)	12(10)	2.62*	0.66
5	Fertilizer application	62(51.7)	37(30.8)	21(17.5)	2.36	0.75
6	Improved coconut cultural practices	59(49.2)	41(34.2)	20(16.6)	2.34	0.74
7	Handling and processing	83(69.2)	30(25)	7(5.8)	2.62*	0.60
8	Marketing	88(73.3)	21(17.5)	11(9.2)	2.68*	0.62

Field survey, 2022. Mean≥2.51 = Information needed

Table 7: Categorization of respondents based on level of information needs

Level	Range	Freq.	Percent	Minimum	Maximum	Mean	Std. d.
Low	0 - 14.10	51	42.3	0.00	16	14.11	1.89
High	14.11 - 16	69	57.7				



Volume 6, Number 4, December, 2023

ISSN (Print): 2651-6144; ISSN (Online): 2651-6365 Website:http://www.jasd.daee.atbu.edu.ng

Total 120 100.0

**Source:** Field survey, 2022

### Relationship between respondents' level of awareness on coconut production technologies and information needs.

Result of test of correlation in Table 8 reveals that there was a positive and significant (p=0.00) relationship between the respondents' level of awareness on coconut production technologies (r=0.36) and their information needs. This implies that the more awareness respondents have on coconut production technologies; the more information they would need.

Table 8: Test of relationship between respondents' level of awareness on coconut production technologies and information needs using PPMC (n=120)

Variables	R	p-Value	Decision
Relationship between respondents' level of awareness of coconut production technologies	0.36	0.00	S
and their information needs			
$\mathbf{c}$	C" + + 0	0.7.1 1.(0.4.)	1 1)

**Source**: Field survey (2022) p-Value is significant at 0.05 level (2 tailed)

#### CONCLUSION AND RECOMMENDATIONS

The study concluded that respondents' information needs were on improved nursery practices, improved varieties of coconut, handling and processing and marketing of coconut. It is therefore recommended that extension agents intensify efforts in liaison with research institutes for information on the areas of needs identified by the farmers. Government should resuscitate commodity boards in order to address marketing problems in agriculture.

#### REFERENCES

- Adekoya, A. (2016). Determinants of fish farmers' adoption of improved hatchery practices in Lagos state. An Unpublished Ph.D thesis submitted to the Department of Agricultural Extension and Rural Development, Federal University of Agriculture, Abeokuta. Pp 72-92.
- Adeniyi, R. T. (2020). Determinants of information and communication technologies utilization for quality of life among rural women in southwestern Nigeria. Unpublished Ph.D thesis in the Department of Agricultural Extension and Rural Development, University of Ibadan. Nigeria. Pp 74-78
- Adewumi, M. O. and Adebayo, F. A. (2008). Profitability and technical efficiency of sweet potato production in Nigeria. *Journal of Rural Development*, **31**(5):105 120.
- Aina, L. O. (2004). Library and Information Services to the Neglected Majority in Africa: The Need for a Restructuring of LIS Curriculum in Africa, In: Towards a Knowledge Society for African Development. Proceeding of 16<sup>th</sup> Standing Conference of Eastern, Central and Southern African Librarians, Kampala: Uganda Library.
- Ajayi, M. T., Banmeke, T. O. A., and Solomon, O. (2010). Information Needs of Oil palm Farmers in Esan Central Local Government Area of Edo state, Nigeria. *Nigerian Journal of Rural Extension and Development*, **3**(3):40-46.
- Ajayi, M. T., Banmeke ,T. O. A. and Solomon, O. (2010). Information Needs of Oil Palm Farmers in Esan Central Local Government Area of Edo State, Nigeria.
- Ajayi, M. T. (2003). Analysis of Mass Media Use for Agricultural Information by Farmers in Egbeda Local Government of Oyo State, Nigeria. *Journal of Extension Systems*, **19**(2):45-55.
- Apata, I. G. and Ogunrewo, J. O. (2010). Analysis of Traditional Information Dissemination and Communication Method among Rural Farmers: Evidence from Traditional Communities in Nigeria: Scientific and Technical Information and Rural Development, IAALD XiIIth World Congress, Montpellier.

Volume 6, Number 4, December, 2023

ISSN (Print): 2651-6144; ISSN (Online): 2651-6365 Website:http://www.jasd.daee.atbu.edu.ng

- Bachhavn, B. (2012). *Information Needs of the Rural Farmers: A Study from Maharashtra, India*: A Survey. Library Philosophy and Practice (e-journal). 866. https://digitalcommons.unl.edu/libphilprac/866.
- Ekoja, I. I. (2010). Personal variables affecting the adoption of Agricultural Innovations by Nigeria Farmers. South Africa Journal of Agricultural extension. 33: 94-107
- FAOSTAT (2008). Food and Agriculture Organization of The United Nations. Economic and Social Department: The Statistical Division.
- FAOSTAT (2014). Food and Agricultural Organization of The United Nations-Statistics. Retrieved January, 2015 from [http://faostat3.fao.org].
- Fapojuwo, O. E., Ajayi, M. T., Okubena, B., A., Adebayo, O. A. and Fapojuwo, T. O. (2021). Occupational hazards prevalence and agricultural workers' job performance of agricultural organisations in Oyo State, Nigeria. *KIU Interdisciplinary Journal of Humanities and Social Sciences*, **2**(1):130-140.
- Federal Republic of Nigeria Official Gazette Archived 2007-07-04 at the Wayback Machine, published 15 May 2007, accessed 8 July 2007 <a href="https://www.worldcat.org/title/badagry-past-and-present-oba-de-wheno-aholu-menu-toyi-1-akran-of-badagry-reign-of-peace/oclc/416571857">https://www.worldcat.org/title/badagry-past-and-present-oba-de-wheno-aholu-menu-toyi-1-akran-of-badagry-reign-of-peace/oclc/416571857</a>.
- Helen, E. (2012). Information Needs and Information Seeking Behaviour of Rural Farmers in Okpokwu Local Government Area of Benue State of Nigeria. An Unpublished MLS dissertation submitted to the Department of Library and Information Science, University of Nigeria, Nsukka, Pp 1-82.
- Morris, C. D. and Stilwell, C. (2003). Getting the write message right: Review of guidelines for producing readable print agricultural information materials. *South African Journal of Libraries and Information Science*, **69**(1):71-83.
- Nair, R.V., Odewale, J. O. and Ikuenobe, C. E. (2003). **Coconut Nursery Manual**. Published by Nigeria Institute for Oil palm research, pp: 3-22.
- Nicholas, D. and Herman, E. (2009). **Assessing Information Needs in the Digital Age of the Consumer**. 3rd Edition London: Routedge. https://doi.org/10.4324/9780203855799
- Okeh, E. (2002). Change agents and information provision in rural communities: The case of selected Nigerian rural communities. *Gateway Library Journal*, **5**(1 and 2): 54-60.
- Oladeji, J. O. and Oyesola, O. B. (2000). Information Needs of Rice Farmers on Harvesting and Process Activities in Obafemi Owode Local Government Area of Ogun State. Proceeding of the Agricultural Extension Society of Nigeria (AESON) held at the Department of Agricultural Extension and Rural Development, University of Ibadan, pp.141-150.
- Omoregbee, F. E. and Banmeke, T. O. A. (2014). Information Needs of Cassava Farmers in Delta State Nigeria. *Tanzania Journal of Agricultural Sciences*, **12**(2):20-25.
- Oyibo, O. (2021). Effects of sweet potato production on empowerment of farming households in Niger-Delta Nigeria. Unpublished Ph.D thesis in the Department of Agricultural Extension and Rural Development, University of Ibadan. Nigeria. 48-49
- Ozowa, V. N. (2004). *Information needs of small-scale farmers in Africa: Nigeria Example*. Quarterly Bulletin of the International Association of Agricultural Information specialist, IAALD/CABI, Vol. 40, No 1.
- Quisumbing, A. R. and Meinzen-Dick, R. S. (2001): Empowering Women to Achieve Food Security: overview, International Food Policy Research Institute, Washington D.C Focus 6, Policy Brief 1 of 12, August 2001.
- Umar, S., Musa, M. W., Olayemi, Y. T. and Suleiman, R. (2015). Awareness and Use of Information and Communication Technologies among Extension Agents in Kaduna State of Nigeria. *Journal of Agricultural Extension*, **19**(1):1-11. <a href="http://dx.doi.org/10.4314.jae.v19i1.6">http://dx.doi.org/10.4314.jae.v19i1.6</a>