

**APPENDIX**

**Small-Scale Farmers Survey on Adoption of Sustainable Agricultural Practices in Lagos State, Nigeria and their Influence on Food Security**

The aim of this survey is to find out if small scale farmers in Lagos State, Nigeria.

use sustainable agricultural practices, the level of adoption and influence on food security.

QUESTIONNAIRE NUMBER

INTERVIEWEE NAME \_\_\_\_\_

INTERVIEWER NAME \_\_\_\_\_

DATE \_\_\_\_\_

LOCAL GOVERNMENT \_\_\_\_\_

VILLAGE NAME \_\_\_\_\_

ARE YOU CERTIFIED ORGANIC FARMER      YES       NO

**Part 1: TECHNOLOGIES USED IN FARM**

This part is to find out which technologies according to IFOAM certification standards you use on your farm.

**QUESTION 1.1 Do you currently use the following technologies/practices on your farm? Please fill the table.**

PRACTICES	USAGE		IF YES	IF YES	IF YES	IF NO	IF NO
	YES	NO	When first implemented? (Year)	Type of crop. 1. Cereal 2. Fruits 3. Vegetables 4. Legumes 5. Tuber 6. Fodder  <i>(May select more than one)</i>	Main objectives 1. Pest control 2. Weed control 3. Soil protection 4. Profit increase 5. Yield increase 6. Climate change adaptation  <i>(May select more than one)</i>	Did you practice in the last 5 years?	Main reason 1. Too costly 2. Too time-consuming 3. Not beneficial 4. Not enough information  <i>(May select more than one)</i>
Intercropping <sup>[1]</sup>							
Crop rotation							
Cover cropping <sup>[2]</sup>							
Reduced tillage							
Mechanical weeding							

<b>Synthetic fertilizers</b>							
<b>Organic fertilizers</b>							
<b>Chemical pesticides treatment</b>							
<b>Non-chemical control of pests and diseases</b>							
<b>Chemical herbicides</b>							

[1] Intercropping - two or more crops on the same field at the same time.

[2] Cover cropping – one of the plant sis grown for the purpose of soil health or fertility rather than being harvested.

**QUESTION 1.2 In case organic fertilizers are applied, please fill the following table, and indicate which kind you use and how often.**

	Never	At least once in 5 years	At least once a year
Animal manure			
Poultry manure			
Green manure <sup>[3]</sup>			
Compost			

<sup>[3]</sup> crops cultivated primarily to improve the soil with nutrients and organic

**QUESTION 1.3 In case chemical fertilisers are applied, please specify\_\_\_\_\_**

\_\_\_\_\_

**QUESTION 1.4 In case non-chemical control of pests and diseases (plant protection) is used, please fill the following table**

	Never	At least once in 5 years	At least once a year
Mechanical ways			
Physical and pheromone traps			
Biological enemies of pests			

**QUESTION 1.5 In case that you use chemical herbicides, please specify\_\_\_\_\_**

\_\_\_\_\_

## **PART 2: PARTICIPANTS KNOWLEDGE ON FOOD SECURITY**

### **2.1. DIETARY DIVERSITY OF FARMING HOUSEHOLDS**

Use the **Household Dietary Diversity Score Table** provided below. You are given a list of 12 food items. Indicate whichever one your household took in the last five days. **If anyone in your household took the food item in the last 24 hours, indicate with (= 1), if nobody took it indicate (= 0).**

<b>No</b>	<b>Food Items and Filters</b>	<b>Responses Yes = 1, No = 0</b>
<b>A</b>	<b>Any Cereals or local foods</b> such as corn or maize ,rice, wheat, sorghum, amala, eba, fufu, semo, bread, Rice, Wheat, etc	
<b>B</b>	<b>Any Food from Roots or Tubers</b> such as Potatoes, Yam, Cassava etc	
<b>C</b>	<b>Any Vegetables:</b> Ewedu, uguwu, waterleaf, amaranthus , okra, tomatoes, moringa, bitter leaf, onion etc.	
<b>D</b>	<b>Any Fruits:</b> Oranges, mango, walnut, watermelon, pawpaw, coconut, etc	
<b>E</b>	<b>Any meat:</b> Beef, pork, chicken, goat, rabbit, wild game, snake, snails, duck, liver, kidney, heart etc	
<b>F</b>	<b>Any Eggs:</b> Eggs from chicken, quail, duck, guinea fowl or any other eggs.	
<b>G</b>	<b>Any fish or seafood:</b> Fresh or dried fish or shell fish, frozen fish, Catfish, crayfish, prawns, crab and any other seafood.	
<b>H</b>	<b>Any food from legumes, nuts and seeds:</b> Beans, peas, palm kernel nut, groundnut, soybean seeds or other from these (e.g. moi-moi, akara, kunu).	
<b>I</b>	<b>Any Milk &amp; Milk Products :</b> Such as evaporated milk, skimmed milk, fresh milk, powdered milk, soybean milk, local cheese (wara),yogurt or other milk products like nunu etc	
<b>J</b>	<b>Any food from fats &amp; oils :</b> such as stew, stewed beans, stewed porridge, butter, margarine, bleached palm oil, soybean oil, groundnut oil etc	

<b>K</b>	<b>Any Sugar, Honey or confectionaries:</b> sugar cane, sugar, honey, sweetened juice drinks, sugary foods such as chocolates and cakes.	
<b>L</b>	<b>Any seasonings and beverages:</b> black pepper, salt, condiments (maggi cube, locust beans, curry leaves and other local spices etc.)Coffee, tea, alcoholic beverages etc.	

**QUESTION 2.2. Harvest and Post Harvest Constraints Ranking. Please fill the table and indicate how you agree or disagree with the following statement.**

<b>Activity</b>	<b>Post Harvest Constraints</b>	<b>Disagree (1)</b>	<b>Somehow disagree (2)</b>	<b>Neutral (3)</b>	<b>Somehow agree (4)</b>	<b>Agree (5)</b>
<b>Harvesting</b>	<ul style="list-style-type: none"> <li>- Difficulty in Acquiring equipment</li> <li>- High cost of Labour</li> <li>- Knowledge of modern harvesting methods</li> <li>- Physical loss</li> </ul>					
<b>Drying</b>	<ul style="list-style-type: none"> <li>- Difficulty in Acquiring equipment</li> <li>- Difficulty in Management of equipment</li> <li>- Physical loss of produce</li> </ul>					

<b>Storage</b>	<ul style="list-style-type: none"> <li>- Loss caused by insects</li> <li>- Loss caused by rodents</li> <li>- Difficulty in acquiring storage facilities &amp; equipment</li> </ul>					
<b>Transportation</b>	<ul style="list-style-type: none"> <li>- High cost of transportation</li> <li>- Poor access roads to market</li> <li>- Distance from farm to market</li> </ul>					

### **Part 3: FARM AND HOUSEHOLDS' ATTRIBUTES**

#### **3.1 What is your gender?**

Male  Female

#### **3.2. How old are you?**

- ≤30
- 31-40
- 41-50
- 51-60
- ≥60

#### **3.3. Current number of people living in your household:**

Men\_\_\_\_ Women\_\_\_\_

#### **3.4. Apart from you, how many members of your household are involved in farming?**

Men \_\_\_\_ Women\_\_\_\_

#### **3.5. What is your highest level of education?**

- Less than elementary level (Illiterate)
- Elementary to less than high school
- High school
- Two years of college
- University or above

#### **3.6. Is agriculture your main occupation?**

Yes  No

#### **3.7. For how many years have you been engaged in farming? \_\_\_\_\_ years**

#### **3.8. Do you get any farming advice from fellow farmers?**

Yes  No



If yes, please specify \_\_\_\_\_

**3.9. Do you get any farming advice from government officials?**

Yes  No

If yes, please specify \_\_\_\_\_

**3.10. What is your farm size in ha? \_\_\_\_\_**

**3.11. Has your farm increased the size of production the last five (5) years?**

Yes  No

If yes, please specify \_\_\_\_\_

**3.12. Please complete the table with farm details:**

	Unit (Hectares)
<b>Agricultural land ownership</b>	
<b>Agricultural land rented</b>	
<b>Agricultural land in use of which</b>	
Field vegetable	
Fruit	
Cereal	
Fodder	
Tuber	
Other cultivated	
Uncultivated	

**3.13. Please indicate the % of farm production for family consumption vs. market sale:**

Personal/Family consumption \_\_\_\_\_ %

Sale on market \_\_\_\_\_ %

**3.14. Please indicate the % of produce sold under the contract**

At the local market \_\_\_\_\_ %

Spot market \_\_\_\_\_ %

Short-term contract \_\_\_\_\_ %

Long-term contract \_\_\_\_\_ %

Others \_\_\_\_\_ %

**3.15. Please indicate the % to whom do sell your products?**

Directly to consumers \_\_\_\_\_ %

Traders \_\_\_\_\_ %

Others \_\_\_\_\_ %

**3.16. How do you store/keep any crop that you have not sold? \_\_\_\_\_**

**3.17. Do you have farmers collectively owned project?**

Yes  No

If yes, please specify \_\_\_\_\_

**3.18 Do you have employees on your farm who aren't your family members? If yes, how many?**

\_\_\_\_\_

**3.19 Further farm expectations. What are your plans or intention within the next 5 years**  
(please tick one box only)

- I will continue with my current business as usual
- I will expand my farming business
- I will sell/rent it for agricultural purposes
- I plan to get organically certified
- I plan to get any other certification
- Other. Please specify \_\_\_\_\_

**Thank you very much for participating in this interview!**