

## **Appendices**

**List of the Appendices:**

**Appendix 1: Questionnaire**

# **Assessment of pineapple waste management system amongst smallholder pineapple farmers and processors in Iguobazuwa, Ovia south-west, Edo state, Nigeria.**

Dear Sir/Madam,

We would like to ask you to fill in the following questionnaire. We are students at the Czech University of Life Science Prague, Czech Republic, and we are conducting a study to learn more about the “Climate Change Awareness of Youth. All the data are collected anonymously. We would appreciate it very much if you would fill in and help us conduct this research. The filling would only take a few minutes.

## **QUESTIONNAIRE**

Dear Sir/Madam,

We would like to ask you to fill in the following questionnaire. This questionnaire is designed to assess the pineapple waste management system amongst smallholder pineapple farmers and processors in Iguobazuwa, Ovia south-west, Edo state, Nigeria.

All the data are collected anonymously. We would appreciate it very much if you would fill in and help us conduct this research. The filling would only take a few minutes.

### **SECTION A: Demographic questions**

please mark (x) in the box of your answer.

1. Category: pineapple farmer ( ) pineapple Processor ( )
2. Age: 15-20 ( ) 21 - 40 ( ) 41-60 ( ) 61 and above ( )
3. Sex: male ( ) Female ( )
4. Marital Status: Single ( ) Married ( ) Divorce ( ) Widowed ( )
5. Farming Experience: 1-5 yrs.( ) 6- 10yrs ( ) 11-20 yrs. ( ) 21 - above ( )
6. Educational attainment: No formal ( ) Adult Education ( ) Primary Education ( ) Secondary education ( ) Tertiary education ( )
7. Farm Size: less than 1 hectare ( ) 2 - 4 hectares ( ) 5 hectares and above ( )

8. Production purpose: Profit ( ) Nonprofit ( ) Others ( )

**SECTION B:**

**Pineapple waste production information**

Purpose: to determine farmers' opinion on what stage of pineapple production large post-harvesting losses occur the most. please mark (x) in the most appropriate box

What stages of post-harvesting do you incur the most waste?

STAGES	No waste	Least waste	Much Waste	Most waste
Harvesting				
Transportation				
Storage				
Processing				
Market				

14. What amount of Pineapple Waste do you incur every season? Less than 1,000 tonnes { } 1,001 to 10,000 tonnes ( ) 10,001 tonnes and above ( )

15. What part of the pineapple does most of the waste come from?

Leaves ( ) Crown ( ) Pineapple peel/Skin ( ) Pineapple fruit ( )

**SECTION C: Challenges in managing the pineapple waste and Pineapple Waste**

**Disposal Method**

16. What is the main challenge you have in disposing of pineapple waste?

17. Lack of time ( ) High cost ( ) Finding buyer ( ) Attract pest and disease ( ) Labor shortage ( ) Bad smell ( )

What method of disposal do you utilize in the discarding of pineapple waste?

Method of Disposal	Never used	Least Used	Moderately used	Frequently used	Approximate percentage.
Incineration					
Burying					

Dumping in landfill					
Drums and Bins					

**Access to information on Pineapple and Pineapple waste By-Products**

Information Source	Daily	Weekly	monthly
Radio			
Television			
Newspaper			
Cooperatives and Extension Agents			

**SECTION D: to ascertain farmers' awareness of products that can be gotten from pineapple waste utilization.**

STAGES	AWARE	UNAWARE	UNDECIDE D
Biofuel			
Animals feed			
Fertilizers			
Paper production			

**SECTION E: to determine if farmers receive training support from agricultural extension officers or professionals in the field. Please check all that applies in this section**

31. Do you engage in training on how to minimize pineapple post-harvest losses ?  
 Yes ( ) No ( )

32. How often is the training?  
Monthly ( ) Annually ( ) Bi-Annually ( ) None ( )
33. How often does an extension officer visits your farm or processing center?  
Weekly ( ) Monthly ( ) Quarterly ( ) Yearly ( ) Others ( ) None ( )
34. What major function(s) does the extension officer(s) provides ?  
Access to finance ( ). Input and fertilizer supply ( ) Transportation ( )  
Storage ( ) Research ( ) Training ( ) Marketing ( ) Packaging ( )
35. How accessible is the agricultural extension officer?  
Very Accessible ( ) Fairly Accessible ( ) Poorly Accessible ( ) Undecided ( )