



Tools for understanding the agricultural production systems  
and their socio-economic context  
in target regions for the introduction of new banana cultivars

Baseline intra-household survey

Developed for the project  
“Improvement of banana for smallholder farmers in the Great Lakes region of Africa”

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### **Ethics**

This research protocol, IRB Proposal No. 2014-089, was approved by the Human Subjects Committee of Clark University on 19/06/2015.

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## BACKGROUND

Within the framework of the IITA-led project “Improvement of banana for smallholder farmers in the Great Lakes region of Africa” (also known as the “Breeding Better Bananas” project, <http://breedingbetterbananas.org>), Bioversity International and partners conducted baseline research in the target regions of Luweero and Mbarara in Uganda, and Bukoba, Meru, Moshi and Rungwe in Tanzania during 2015-2016, prior to conducting on-station and on-farm evaluations of new NARITA banana cultivars (<http://www.promusa.org/NARITA+hybrids>).

Five tools were used to characterise the banana and agricultural production systems, and the socioeconomic context of these systems, in the target regions. The research used a mixed-methods, participatory and sex-disaggregated approach to ensure that the knowledge, experiences and opinions of as many people as possible were obtained.

The understanding gained from the baseline research will:

- be fed into the banana breeding pipeline at multiple entry points to assist with breeding banana cultivars that better meet the requirements of the users. Some of these entry points are: setting of breeding targets; selection of parent material; evaluation in regional on-station and on-farm trials; participatory varietal selection taking into account the criteria (or ‘trait preferences’) that are important to multiple and different users; facilitating access to and adoption of the new cultivars by farmers and other end-users through scaling up the supply of clean planting materials and ensuring equitable distribution of these through the ‘seed’ systems;
- inform the ongoing adaptive management of the project activities to ensure fair participation and decision-making by people in the affected communities;
- provide the baseline to evaluate, in conjunction with the endline, the impact of adoption of the new cultivars on households, and individuals within, in the target regions.

The five tools developed and/or adapted from existing tools for the baseline research were:

- 1. Baseline intra-household survey**  
English version; Kiswahili version; XForms version for mobile data collection
- 2. Trait preferences for banana products and varieties focus group discussion**  
English version; Kiswahili version
- 3. Seasonal calendar focus group discussion**  
English version; Kiswahili version
- 4. Weekly and daily calendar focus group discussion**  
English version; Kiswahili version
- 5. Community wealth ranking focus group discussion**  
English version; Kiswahili version

## BASELINE INTRA-HOUSEHOLD SURVEY

### SECTION A: SITE INFORMATION AND INFORMED CONSENT

*Include in both complete & short versions, respondents answer separately if two are present*

A1. Date of the interview \_\_\_\_/\_\_\_\_/\_\_\_\_

A2. Name of enumerator conducting the interview \_\_\_\_\_

A3. Name of enumerator you are working with (if applicable) \_\_\_\_\_

A4. Country \_\_\_\_\_ A5. Region (UG only) \_\_\_\_\_

A6. Region (TZ)/District (UG) \_\_\_\_\_ A7. District (TZ)/Sub-county (UG) \_\_\_\_\_

A8. Ward (TZ)/Parish (UG) \_\_\_\_\_ A9. Village \_\_\_\_\_

A10. Which respondents are present? (Select all that apply)

- man  
 woman

A11. Which respondent are you asking for consent? (Select all that apply)

- man  
 woman

**Read to the specific respondent that you are asking for their consent to be interviewed:**

*“Good day, our names are \_\_\_\_\_ and \_\_\_\_\_, and we work on behalf of Bioversity International on a project where new matooke/ndizi (banana) hybrids, produced by NARO and IITA, will be tested for their performance in different regions in Uganda and Tanzania. If any of the varieties perform well they will be recommended for official release made available to farmers.*

*Before we start this project, however, we would like to ask farmers in the different regions about their banana production systems, banana varieties, banana products, and your households and communities—and that is why we are in your village at the moment to conduct household surveys and a number of other different focus group discussions.*

*Thank you for making yourself available to participate in this household survey, which we think, will take between 60-90 minutes to complete. Your participation is entirely voluntary and you may choose to not start the survey, stop the survey at any time, or not answer particular questions, and that will be perfectly fine. There are no right or wrong answers to the questions and your answers will be used for research purposes, treated as confidential, and analysed and reported upon without any reference to your specific answers or household details. The information that we are collecting will help us to implement project activities and will help scientists to develop better banana varieties that are preferred by farmers.”*

A12. Do you consent to being interviewed?

- yes  
 no

***If the respondent does not consent to be interviewed, thank them for their time and end the interview immediately.***

**SECTION B: RESPONDENT(S) REGISTER**

*Include in both complete & short versions, respondents answer together if two are present*

**B1. Household unique ID** (*This is one of the codes that have been supplied to you at the beginning of the day, e.g. 001, 002, 003, 004. Make sure you use each code only once for one household.*) \_\_\_\_\_

**Take a GPS reading of the location of the household** (*GPS coordinates can only be collected when outside*):

**B2. Latitude** (*e.g. N 0°24'39"*) \_\_\_\_\_

**B3. Longitude** (*e.g. E 32°56'56"*) \_\_\_\_\_

**B4. How can we find you again if we wish to follow up on any aspects of this survey—your address, or contact details, or way of reaching you?** \_\_\_\_\_

**B5. Name of male respondent** \_\_\_\_\_

<b>B6. Age of male respondent?</b> (Years)	<b>B7. Marital status of male respondent?</b> (See code #1)	<b>B8. Relationship of male respondent to head of household?</b> (See code #2)	<b>B9. Main occupation of male respondent?</b> (See code #3)	<b>B10. Level of education of male respondent?</b> (See code #4)	<b>B11. Can male respondent read or write?</b> (See code #5, select all that apply)	<b>B12. How many years has male respondent lived in the village?</b>

**B13. Name of female respondent** \_\_\_\_\_

<b>B14. Age of female respondent?</b> (Years)	<b>B15. Marital status of female respondent?</b> (See code #1)	<b>B16. Relationship of female respondent to head of household?</b> (See code #2)	<b>B17. Main occupation of female respondent?</b> (See code #3)	<b>B18. Level of education of female respondent?</b> (See code #4)	<b>B19. Can of female respondent read or write?</b> (See code #5, select all that apply)	<b>B20. How many years has female respondent lived in the village?</b>

**SECTION C: HOUSEHOLD REGISTER**

*Include in complete version only, respondents answer together if two are present*

**Read to the respondent(s):**

*“The household roster should include all people that “live together and eat out of the same pot”. Include the following people: someone temporarily gone for less than six months, students studying away from home, workers who have stayed in the house for at least six months, and someone that lives away from home but is VERY involved in household management decisions. Family members that live somewhere else and only come to visit and bring or send money are not household members.”*

**C1. Including the respondent(s), how many people currently reside in the household?** \_\_\_\_\_

**C2. Not including the respondent(s), how many people currently reside in the household?** \_\_\_\_\_

*Ask the following questions about each member of the household but do not include the respondents as they have already provided their details! List the household members in order of the children of the female respondent, the next wife and her children, other adult family members and their children, and finally other children without parents in the household.*

	<b>C3. Sex of household member?</b> <i>(M for male, F for female)</i>	<b>C4. Age of household member?</b> <i>(Years)</i>	<b>C5. Marital status of household member?</b> <i>(See code #1)</i>	<b>C6. Relationship of household member to head of household?</b> <i>(See code #2)</i>	<b>C7. Level of education of household member?</b> <i>(See code #4)</i>	<b>C8. Can household member read or write?</b> <i>(See code #5, select all that apply)</i>
1						
2						
3						
4						
5						
6						
7						
8						
9						
11						
12						

## SECTION D: PROGRESS OUT OF POVERTY INDEX (PPI) INDICATORS

*Include in complete version only, respondents answer together if two are present*

### The 2009 Uganda Progress out of Poverty Index®

Material reproduced from [www.progressoutofpoverty.org/country/uganda](http://www.progressoutofpoverty.org/country/uganda) with the permission of Innovations for Poverty Action (IPA)

*To be used when in Uganda. Circle the appropriate response.*

**D1\_UG. How many members does the household have?**

- A = six or more
- B = four or five
- C = three
- D = two
- E = one

**D2\_UG. Do all children ages 6 to 18 currently attend school (public, private, NGO/religious, or boarding)?**

- A = not all attend school
- B = all attend government schools
- C = no children ages 6 to 18
- D = all attend, and one or more attend a private, NGO/religious, or boarding school

**D3\_UG. What is the highest grade that the female head/spouse completed (consider only female headed household)?**

- A = no female head/spouse
- B = P.5 or less, or none
- C = P.6
- D = P.7 to S.6
- E = higher than S.6

**D4\_UG. What is the major construction material of the roof?**

- A = thatch, straw, or other
- B = iron sheets, or tiles

**D5\_UG. What is the major construction material of the external wall?**

- A = un-burnt bricks, mud and poles, thatch/straw, timber, stone, burnt bricks with mud, other
- B = burnt bricks with cement, or cement blocks

**D6\_UG. What is the *main* source of lighting in your dwelling?**

- A = firewood
- B = tadooba, or other
- C = paraffin lantern, or electricity (grid, generator, solar)

**D7\_UG. What is the type of toilet that is mainly used in your household?**

- A = bush (none)
- B = covered pit latrine (private or shared), VIP latrine (private or shared), uncovered pit latrine, flush toilet (private or shared), or other

**D8\_UG. Does any member of your household own electronic equipment (e.g., TV, radio, cassette, etc.) at present?**

- A = no
- B = yes

**D9\_UG. Does every member of the household have at least two sets of clothes? (Clothes in good or average condition only.)**

- A = no
- B = yes

**D10\_UG. Does every member of the household have at least one pair of shoes? (Shoes in good condition only. Slippers, 'tire' shoes [lugabire], and gumboots are not considered as shoes.)**

- A = no
- B = yes

## The 2007 Tanzania Progress out of Poverty Index®

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To be used when in Tanzania. Circle the appropriate response.

**D1\_TZ.** How many household members are 17- years-old or younger?

- A = four or more
- B = three
- C = two
- D = one
- E = none

**D2\_TZ.** Do all children ages 6 to 17 attend school?

- A = no
- B = yes, or no children ages 6 to 17

**D3\_TZ.** Can the female head/spouse read and write?

- A = no
- B = yes, but not in Kiswahili nor English
- C = no female head/spouse
- D = yes, only in Kiswahili
- E = yes, in English (regardless of others)

**D4\_TZ.** What is the main building material of the floor of the main dwelling?

- A = earth
- B = concrete, cement, tiles, timber, or other

**D5\_TZ.** What is the main building material of the roof of the main dwelling?

- A = mud and grass
- B = grass, leaves, bamboo
- C = concrete, cement, metal sheets (GCI), asbestos sheets, tiles, or other

**D6\_TZ.** How many bicycles, mopeds, motorcycles, tractors, or motor vehicles does your household own?

- A = none
- B = one
- C = two or more

**D7\_TZ.** Does your household own any radios or radio cassettes?

- A = no
- B = yes

**D8\_TZ.** Does your household own any lanterns?

- A = no
- B = yes

**D9\_TZ.** Does your household own any irons (charcoal or electric)?

- A = no
- B = yes

**D10\_TZ.** How many tables does your household own?

- A = none
- B = one
- C = two
- D = three or more



**SECTION E: HOUSEHOLD SOURCES OF INCOME**

*Include in complete version only, respondents answer together if two are present*

	<b>E1. Select all the sources of household income (cash and in-kind) in the past 12 months. (See code #6, select all that apply)</b>	<b>E2. Rank all the sources of household income. (From the first most important to the least important)</b>
1		
2		
3		
4		
5		
6		
7		
8		

**E3. How would you rate the importance of banana to the household income?** *(Emphasize that this section is asking about the income of the whole household, not only of the respondent)*

- very important
- somewhat important
- neither important nor unimportant
- somewhat unimportant
- very unimportant

**E4. What percentage of the household income is made from bananas?** *(Emphasize that this section is asking about the income of the whole household, not only of the respondent)* \_\_\_\_\_

## SECTION F: HOUSEHOLD LIVESTOCK

*Include in complete version only, respondents answer together if two are present*

**F1. Does the household own any livestock?**

- yes
- no
- don't know
- other, please specify

**F2. Please specify 'other'** \_\_\_\_\_

*If yes, please answer the following questions:*

	<b>F3. Which livestock does the household own? (See code #7, select all that apply)</b>	<b>F4. How many of these livestock does the household own?</b>
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

## SECTION G: PREPARING FOR RESPONDENT(S) TO BE INTERVIEWED SEPARATELY

*Include in both complete & short versions, respondents answer together if two are present*

G1. How many plots of land does the household own, rent and/or has access to and farms? \_\_\_\_\_

	G2. Plot name
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

**Read to the respondent(s) before they separate and answer the remaining questions from their own perspective:**

*“Now we would like to interview the man and the women separately—you will both be asked exactly the same questions but because we understand that different people in the household farm different plots and crops and have different knowledge and experiences, we would like to interview the men and women separately.*

*This will also help us to save time!”*

**G3. Which respondent are you now interviewing?** *(Should be the same respondent that you asked for consent to be interviewed)*

- man
- woman
- both *(avoid this option if at all possible)*

**SECTION H: BANANA VARIETIES GROWN**

*Include in both complete & short versions, respondents answer separately if two are present*

*Ask the following questions for each banana variety grown by the household.*

	H1. Banana variety name	H2. Type of banana? <i>(See code #8)</i>	H3. Local or introduced? <i>(See codes #9)</i>	H4. Is this variety for home consumption, for sale? <i>(See code #10, select all that apply)</i>	H5. What products are made with this variety? <i>(See code #11, select all that apply)</i>	H6. How happy are you with this variety? <i>(See code #12)</i>	H7. What do you like best about this variety?	H8. What do you like least about this variety?
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

	<b>H1. Banana variety name</b>	<b>H2. Type of banana?</b> <i>(See code #8)</i>	<b>H3. Local or introduced ?</b> <i>(See codes #9)</i>	<b>H4. Is this variety for home consumption, for sale?</b> <i>(See code #10, select all that apply)</i>	<b>H5. What products are made with this variety?</b> <i>(See code #11, select all that apply)</i>	<b>H6. How happy are you with this variety?</b> <i>(See code #12)</i>	<b>H7. What do you like best about this variety?</b>	<b>H8. What do you like least about this variety?</b>
12								
13								
14								
15								
16								
17								
18								
19								
20								

**H9. Do you *personally* earn income from selling any of the banana types?** (Select all that apply, and emphasize that this section is asking about the personal income of only the respondent, rather than of the whole household)

- no income earned
- cooking banana
- roasting banana
- dessert banana
- beverage banana
- don't know
- other, please specify

**H10. Please specify 'other'** \_\_\_\_\_

*If yes, please answer the following questions:*

Months	H11. Which months are the <i>peak season</i> for producing bananas?	H12. Which months are the <i>off-peak</i> season for producing bananas (very little production)?	H13. Which months are the <i>moderate</i> season for producing bananas (in between the extremes of the peak and the off-peak seasons)? (Select all the remaining months that were not identified as being part of the peak nor the off-peak season, but ask the respondent first if that is correct)
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

If yes, please answer the following questions:

Types of banana	H14. How much income do you earn from selling the banana type(s) in a typical month during the <i>peak</i> banana production season? ( <i>Local currency</i> )	H15. How much income do you earn from selling the banana type(s) in a typical month during the <i>off-peak</i> banana production season? ( <i>Local currency</i> )	H16. How much income do you earn from selling the banana type(s) in a typical month during the <i>moderate</i> banana production season? ( <i>Local currency</i> )
Cooking banana			
Roasting banana			
Dessert banana			
Beverage banana			
Other, if specified in H10			

H17. What planting material do you use when you plant banana? (*Select all that apply*)

- suckers
- tissue-culture plantlets
- macro-propagated plantlets
- don't know
- other, please specify

H18. Please specify 'other' \_\_\_\_\_

For each type of planting material used, where do you get it from? (*Select all that apply*)

Source of planting material	H19. Suckers	H20. Tissue-culture plantlets	H21. Macro-propagated plantlets	H22. Other, as specified
Own household				
Community				
Agricultural extension service				
NGO				
Research station				
Private business				
Don't know				
Other, please specify				

**H23. Do you experience any of these constraints to banana production? (Select all that apply)**

- sun
- drought
- too much water
- wind
- weevil
- weevil bugs on the leaves
- Bacterial wilt (BXW)
- Fusarium wilt (Panama)
- Sigatoka
- Bunchy top (BBTD)
- nematodes
- pests and diseases (general)
- poor soil fertility
- none
- don't know
- other, please specify

**H24. Please specify 'other'** \_\_\_\_\_  
\_\_\_\_\_



## SECTION I: INDIVIDUAL PLOTS OF LAND

*Include in both complete & short versions, respondents answer separately if two are present*

*Ask these questions for each plot that the household has access to.*

Plot number <i>(Take answer to question G1)</i>	1	2	3	4
<b>I1. Plot name?</b> <i>(Take answer to question G2)</i>				
<b>I2. Plot area (acres)?</b>				
<b>I3. Distance of plot from the house – in km or miles?</b> <i>(Circle measurement used)</i>				
<b>I4. Distance of plot from the house – in minutes?</b>				
<b>I5. Is this plot owned by someone in the household?</b> <i>(See code #13)</i>				
<b>I6. How was this plot acquired?</b> <i>(See code #14)</i>				
<b>I7. Who in the household acquired this plot?</b> <i>(See code #2, select all that apply)</i>				
<b>I8. Who manages this plot?</b> <i>(See code #2, select all that apply)</i>				
<b>I9. Who provides labour on this plot?</b> <i>(See code #2, select all that apply)</i>				
<b>I10. Who decides on which crops to grow on this plot?</b> <i>(See code #2, select all that apply)</i>				
<b>I11. Which crops are grown on this plot?</b> <i>(See code #15, select all that apply)</i>				

<b>Plot number</b> ( <i>Take answer to question G1</i> )	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>I12. Are any crops on this plot for home consumption?</b> ( <i>See code #13</i> )				
<b>I13. If yes, which crops?</b> ( <i>See code #15, select all that apply</i> )				
<b>I14. Are any crops on this plot for selling?</b> ( <i>See codes #13</i> )				
<b>I15. If yes, which crops?</b> ( <i>See code #15, select all that apply</i> )				
<b>I16. Do you have decision-making powers to sell any crops on this plot?</b> ( <i>See code #13</i> )				
<b>I17. If yes, which crops?</b> ( <i>See code #15, select all that apply</i> )				
<b>I18. Do you sell any crops from this plot yourself (the actual exchange with money)?</b> ( <i>See code #13</i> )				
<b>I19. If yes, which crops?</b> ( <i>See code #15, select all that apply</i> )				
<b>I20. Do you control the income from the sale of any crops on this plot?</b> ( <i>See code #13</i> )				
<b>I21. If yes, which crops?</b> ( <i>See code #15, select all that apply</i> )				

If bananas are grown, collect the following information for each plot they are grown on.

I22. Plot name \_\_\_\_\_

Banana variety number:	1	2	3	4
I23. Variety name?				
I24. Extent of area under cultivation, <i>answer one of the following –</i>				
- acres				
- % of plot				
- number of mats				

I22. Plot name (*fill in as required*) \_\_\_\_\_

Banana variety number:	( <i>fill in as required</i> )	( <i>fill in as required</i> )	( <i>fill in as required</i> )	( <i>fill in as required</i> )
I23. Variety name?				
I24. Extent of area under cultivation, <i>answer one of the following –</i>				
- acres				
- % of plot				
- number of mats				

I22. Plot name (*fill in as required*) \_\_\_\_\_

Banana variety number:	( <i>fill in as required</i> )	( <i>fill in as required</i> )	( <i>fill in as required</i> )	( <i>fill in as required</i> )
I23. Variety name?				
I24. Extent of area under cultivation, <i>answer one of the following –</i>				
- acres				
- % of plot				
- number of mats				

**SECTION J: BANANA VARIETIES NOT GROWN ANYMORE**

*Include in both complete & short versions, respondents answer separately if two are present*

**J1. Are there banana varieties that you used to grow but do not grow anymore?**

- yes
- no
- don't know

*If yes, please answer the following questions.*

	<b>J2. Banana variety Name</b>	<b>J3. Type of banana?</b> <i>(See code #8)</i>	<b>J4. Local or introduced?</b> <i>(See code #9)</i>	<b>J5. How many years did you grow this variety for?</b>	<b>J6. Why is this variety not grown anymore?</b>	<b>J7. How do you feel about the loss of this variety from your farm?</b> <i>(See code #12)</i>
1						
2						
3						
4						
5						
6						
7						
8						

## SECTION K: FOOD SECURITY

*Include in both complete & short versions, respondents answer separately if two are present*

**K1. Were there any months, in the past 12 months, in which you did not have enough food to meet your family's needs?**

- yes
- no
- don't know

**K2. If yes, in which months did the family not have enough food to meet their needs? (Select all that apply)**

January	February	March	April	May	June	July	August	September	October	November	December

**K3. If yes, what are the main reasons for there not being enough food? (Select all that apply)**

- floods
- drought
- irregular rains
- crop seasonality
- crop pests and diseases
- livestock pests and diseases
- high food prices
- high costs of agricultural inputs
- lost employment
- allocation of more land to cash crops
- death of household member
- theft of productive assets
- erosion/landslides
- don't know
- other, please specify

**K4. Please specify 'other'** \_\_\_\_\_

Household member	K5. If yes, how many meals a day did these household members eat when there was NOT enough food to eat?	K6. How many meals a day did these household members eat when there was enough food to eat? (Answer this question irrespective of the answer to question K1)
Household head		
Spouse		
Other adult males		
Other adult females		
Boys		
Girls		

## SECTION L: IMPORTANCE OF THE DIFFERENT CROPS TO FOOD AND INCOME SECURITY

*Include in both complete & short versions, respondents answer separately if two are present*

Importance of crops for household food consumption:

	<b>L1. Across the year, which crops are the most important for your household food consumption? (See code #15, select all that apply)</b>	<b>L2. Rank the crops that are most important for your household food consumption. (From the first most important to the least important)</b>
1		
2		
3		
4		
5		
6		
7		
8		

Importance of crops for household income:

	<b>L3. Across the year, which crops are the most important for your household income? (See code #15, select all that apply)</b>	<b>L4. Rank the crops that are most important for your household income. (From the first most important to the least important)</b>
1		
2		
3		
4		
5		
6		
7		
8		

## SECTION M: PERSONAL SOURCES OF INCOME

*Include in both complete & short versions, respondents answer separately if two are present*

	<b>M1. Select all your sources of <i>personal</i> income?</b> <i>(Select all that apply, and emphasize that this section is asking about the personal income of only the respondent, rather than of the whole household)</i>	<b>M2. Rank all the sources of your personal income.</b> <i>(From the first most important to the least important.)</i>
1		
2		
3		
4		
5		
6		
7		
8		

**M3. How would you rate the importance of banana to your *personal* income?** *(Emphasize that this section is asking about the personal income of only the respondent, not of the whole household)*

- very important
- somewhat important
- neither important nor unimportant
- somewhat unimportant
- very unimportant

**M4. What percentage of your *personal* income is made from bananas?** *(Emphasize that this section is asking about the personal income of only the respondent, not of the whole household)* \_\_\_\_\_

**SECTION N: AGRICULTURAL EXTENSION**

*Include in both complete & short versions, respondents answer separately if two are present*

**N1. Have you participated in any agricultural extension activities in the past three years?**

- yes
- no
- don't know

**N2. If yes, please describe** \_\_\_\_\_  
\_\_\_\_\_

**N3. If yes, where have you participated in agricultural extension activities?**

- research station
- farmer's demonstration plot
- training center
- exhibition
- own plot
- don't know
- other, please specify

**N4. Please specify 'other'** \_\_\_\_\_  
\_\_\_\_\_

**N5. If there were an opportunity to learn about new improved banana hybrids, would you be interested in participating?**

- yes
- no
- don't know

**N6. Please provide a reason for the above answer** \_\_\_\_\_  
\_\_\_\_\_

**N7. If there were an opportunity to test new banana hybrids in one of your plots, would you be interested in participating?**

- yes
- no
- don't know

**N8. Please provide a reason for the above answer** \_\_\_\_\_  
\_\_\_\_\_

**N9. If yes, in which plot(s) do you think the new banana hybrids would be tested in?** \_\_\_\_\_  
\_\_\_\_\_

**N10. Please provide a reason(s) for the above answer** \_\_\_\_\_  
\_\_\_\_\_

**N11. We are at the end of the survey but before we finish, do you have any questions or comments for the organisers of this project?** \_\_\_\_\_  
\_\_\_\_\_

*Read to the respondent: "Thank you so much for taking the time to answer these questions with us today, we appreciate it!"*





## SECTION P: CODES

- #1**  
1 = single  
2 = cohabitating  
3 = married (monogamous)  
4 = married (polygamous)  
5 = divorced  
6 = widowed  
7 = don't know  
8 = other, please specify
- #2**  
1 = household head  
2 = husband  
3 = wife (monogamous)  
4 = wife 1 (polygamous)  
5 = wife 2 (polygamous)  
6 = wife 3 (polygamous)  
7 = parent  
8 = parent in law  
9 = sibling  
10 = child  
11 = grandchild  
12 = friend  
13 = employee  
14 = don't know  
15 = other, please specify
- #3**  
1 = agriculture  
2 = livestock  
3 = business, self employed  
4 = construction, bricklaying  
5 = transportation  
6 = timber, charcoal, wood products  
7 = non-timber forest products  
8 = housework  
9 = salaried professional  
10 = casual temporary labour  
11 = studying  
12 = no occupation (adult)  
13 = no occupation (child)  
14 = don't know  
15 = other, please specify
- #4**  
1 = no formal education  
2 = nursery  
3 = primary  
4 = secondary  
5 = post-secondary  
6 = don't know  
7 = other, please specify
- #5**  
1 = can read  
2 = can write  
3 = cannot read or write
- #6**  
1 = agriculture  
2 = livestock  
3 = fish  
4 = bees  
5 = grasshoppers  
6 = business  
7 = construction, brick-laying  
8 = transportation  
9 = wood products  
10 = non-wood forest products  
11 = casual labour  
12 = salary  
13 = allowance from spouse  
14 = food aid  
15 = remittance from family member(s)  
16 = gifts, assistance  
17 = pension  
18 = rental income  
19 = finance  
20 = no income  
21 = don't know  
22 = other, please specify
- #7**  
1 = cattle  
2 = goat  
3 = donkey  
4 = sheep  
5 = pig  
6 = rabbit  
7 = chicken  
8 = turkey  
9 = duck  
10 = goose  
11 = pigeon  
12 = other, please specify
- #8**  
1 = cooking banana  
2 = roasting banana  
3 = dessert banana  
4 = beverage banana  
5 = don't know  
6 = other, please specify
- #9**  
1 = local  
2 = introduced  
3 = don't know  
4 = other, please specify
- #10**  
1 = home consumption  
2 = for sale  
3 = don't know  
4 = other, please specify

*(Codes continued next page)*

**#11**

- 1 = matooke
- 2 = katogo
- 3 = machalari
- 4 = mtori
- 5 = roasted
- 6 = chips
- 7 = flour
- 8 = juice
- 9 = beer
- 10 = wine
- 11 = gin
- 12 = eaten ripe
- 13 = pancakes
- 14 = don't know
- 15 = other, please specify

**#12**

- 1 = very happy
- 2 = happy
- 3 = neither happy or unhappy
- 4 = unhappy
- 5 = very unhappy

**#13**

- 1 = yes
- 2 = no
- 3 = don't know
- 4 = other, please specify

**#14**

- 1 = inherited
- 2 = purchased
- 3 = gift
- 4 = rented
- 5 = borrowed
- 6 = encroachment
- 7 = don't know
- 8 = other, please specify

**#15**

- 1 = cooking bananas
- 2 = roasting bananas
- 3 = dessert bananas
- 4 = beverage bananas
- 5 = avocado
- 6 = beans
- 7 = cabbage
- 8 = carrot
- 9 = cassava
- 10 = coffee
- 11 = eggplant
- 12 = green leafy vegetables
- 13 = groundnuts
- 14 = Irish potato
- 15 = jackfruit
- 16 = maize
- 17 = mango
- 18 = millet
- 19 = onion
- 20 = passion fruit
- 21 = peas
- 22 = pineapple
- 23 = pumpkin
- 24 = rice
- 25 = sorghum
- 26 = soybean
- 27 = sunflower
- 28 = sweet potato
- 29 = taro
- 30 = tea
- 31 = tomato
- 32 = wheat
- 33 = yam
- 34 = don't know
- 35 = other, please specify
- 36 = none