

## Baseline survey of elders

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### Note:

- Before video: Module 1-8
  - After video: Module 9-11
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### Module 0: Session-level information

#### Questions:

Q1: [Enumerator records] Which county are you in?

Q2: [Enumerator records] Which district are you in?

Q3: [Enumerator records] What is the name of the school?

Q4: [Automatically generated using response to Q3] Who is the field officer responsible for this school?

Q5: [Enumerator records] What is the name of the town?

Q6: Which video session is this?

#### Choice: select one

- Video A (Long video)
- Video B (Short video)

Q7: Collect the GPS location of the survey

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### Module 1: Demographics (20 min)

#### Task:

After setting up interviews with individuals, enumerators will ask the following demographic questions to elders. The information will help predict (i) elders' attention to and participation in the 4-H program; (ii) their interactions with students.

#### Questions:

Q1: What is the name of your child, who was interviewed as well?

Enumerator instruction: Please write down the FULL name

Text

Q2: What is your relation to the student?

Choice (select one):

- Father
- Mother
- Grandfather
- Grandmother
- Uncle
- Aunt
- Brother
- Sister
- Brother in law
- Sister in law
- Other relatives: please specify

Q3. How old are you?

Numeric answer: range = 0-100

Q4. [Enumerator records] What is the gender of the subject?

Choice (select one): Male/Female

Q5. What is your ethnicity/tribe?

Choice (select one):

- Americo Liberian
- Gio
- Kpelle
- Mano
- Vai
- Kru
- Gola
- Grebo
- Bassa
- Mandingo
- Mende
- Krahn

- Lorma
- Dei
- Kissi
- Belle
- Gbandi
- Sarpo
- Congo
- Other: please specify

Q6a. What is the highest level of education that you have completed?

Choice (select one):

- No school
- Some elementary
- Elementary completed
- Some junior high
- Junior high completed
- Some senior high
- Senior high completed
- More than senior high

Q6b. Can you read and write in English?

Choice (select one): Yes/No

#### Agriculture questions

Q7. In this rainy season, are you or will you be farming?

Choice (select one): Yes/No

Q8. For how many years have you been farming?

Numeric answer: range = 0-100

Q9a. Are you planting any tree crops?

Choice (select one): Yes/No

Q9b. Which tree crops are you planting? (*Applicable if response to Q9a is yes*)

Choice (select multiple, do not read out options):

- Cocoa
- Coconut
- Coffee

- Cotton
- Palm
- Rubber
- Sugar cane
- Tobacco
- Other: please specify

Q9c. Did you plant any NEW tree crops during the last rainy season (April to October)?

Choice (select one): Yes/No

Q10a. Do you have any non-farm businesses?

Choice (select one): Yes/No

*Enumerator instructions: Please exclude farm enterprises that relate to crop production and raising and managing livestock. Please exclude enterprises that relate to tree crops.*

Q10b. Which other business do you have apart from farming? (Applicable if response to Q10a is yes)

*Enumerator instructions: Please exclude farm enterprises that relate to crop production and raising and managing livestock. Please exclude enterprises that relate to tree crops.*

Choice (select multiple, do not read out options):

- Hunting
- Fishing
- Mining
- Wholesale business
- Retail business
- Other: please specify

Q11a. Have you ever got any farming advice from people inside your community?

Choice (select one): Yes/No

Q11b. From whom did you get the farming advice?

Text

Q11c. Have you ever got any farming advice from people outside your community?

Choice (select one): Yes/No

Q11d. From whom did you get the farming advice? (Applicable if response to Q10a is yes)

Choice (select multiple, read out options):

- The Liberian government
- NGOs

- Church group/Mosque
- Other: please specify

Q11e. When was the last time you got farming advice from people outside your community?  
(Applicable if response to Q10a is yes)

Choice (select one):

- 0-6 months ago
- 7-12 months ago
- More than 1 year ago

Q11f. Think about the farming advice that you have gotten, both from inside and outside of the community. Did you use this advice in your farming?

Select one

- No
- Yes, some of it
- Yes, all of it

Q12a. Do you own any land?

Choices: yes/no

Q12b. Applicable if yes to Q12a.

How much land do you own?

Text

Q12c. How did you get most of your farmland?

Choice (select one):

- Community land or quarter land
- Tribal land
- Distributed by family
- Distributed by lineage
- Purchased land
- Rented from others
- Farming as a tenant
- Other: please specify

Q12d. Do you have a deed for any of your farm(s)?

Enumerator instruction: This includes public deed, warranty deed, tribal deed or certificate.

Choice (select one): Yes/No

Q12e. Do you have the right to sell any of your farm or use it as collateral?

Choice (select one): Yes/No

Q13a. In the last rainy season (April to October 2020), did you grow any roots and tubers crops [like cassava, potatoes, yam, eddoes]?

Choice (select one): Yes/No

Q13b. In the last rainy season (April to October 2020), did you grow any vegetable crops [like pepper, bitterballs, eggplant, onions, cabbage, collard greens]?

Choice (select one): Yes/No

Q13c. Roughly speaking, what was the fraction of roots and tubers produce [i.e. cassava, potatoes, eddoes, etc] that you sold to the market? (*Applicable if response to Q13a is yes.*)

**Include visual aids**



Select one:

- 0/4
- 1/4
- 2/4
- 3/4
- 4/4

Q13d. Roughly speaking, what was the fraction of vegetable produce [i.e. pepper, bitterballs, eggplant, onions, cabbage, collard greens] that you sold to the market? (*Applicable if response to Q13b is yes.*)

**Include visual aids**



Select one:

- 0/4
- 1/4
- 2/4
- 3/4

- 4/4

Q14. In the last rainy season (April to October 2020), did you plant crops in upland, lowland, or both?

Choice (select one):

- Upland
- Lowland
- Both upland and lowland

Q15. In the last rainy season (April to October 2020), did you use any kuu labor on your farms?

Select one: Yes/No

Q16. In the last rainy season (April to October 2020), did you pay any people (other than kuu labor) to work on your farms?

Select one: Yes/No

Q17. During the last rainy season (April to October 2020), did you?

Select one: Yes/No

- a) Use any chemical fertilizer on your farms?
- b) Buy agricultural technology?
- c) Use agricultural technology?
- d) Purchase animals?
- e) Construct any new farmland?
- f) Purchase measurement tools?

Q18. How many minutes does it take you to walk from your home to the school?

Enumerator instructions: If the respondent is having difficulty answering, tell them it is okay if they have to guess.

Select one:

- 0-10 minutes
- 11-30 minutes
- 31-60 minutes
- More than 60 minutes

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Module 2: Understanding of the 4-H program (5 min)

Questions:

Q1a. Have you heard about 4-H or the school garden program at your child's school?

Select\_one: Yes/No

Q1b-i. Since the beginning of this year (2021), have you met the science teacher taking care of the school garden?

Select\_one: Yes/No

Q1b-ii. How frequently did you meet the science teacher this year (2021)? (*Applicable if response to Q1b-i is yes.*)

Select one:

- Less than once a month
- Once a month
- Twice a month
- More than twice a month

Q1c-i. Since the beginning of this year (2021), have you met the PTA chair?

Select\_one: Yes/No

Q1c-ii. How frequently did you meet the PTA chair this year(2021)? (*Applicable if response to Q1c-i is yes.*)

Select one:

- Less than once a month
- Once a month
- Twice a month
- More than twice a month

Q1d-i. Since the beginning of this year (2021), have you met the extension/field officer who helps with the school garden?

Select\_one: Yes/No

Q1d-ii. What is the name of the extension officer?

Enumerator instructions: Check if the answer is correct, using the name of the correct field officer (from Module o Q4). Small spelling mistakes are okay.

Choice:

- Full name correct
- Correct first name
- Correct last name
- Incorrect name
- Don't know

Q1d-iii. How frequently did you meet the extension officer this year (2021)? (*Applicable if response to Q1d-i is yes.*)

Select one:

- Less than once a month

- Once a month
- Twice a month
- More than twice a month

Q2a. Have you ever visited the school garden?

Select\_one: Yes/No

Q2b. How frequently did you visit the school garden this year (2021)? (*Applicable if response to Q2a is yes.*)

Select one:

- Less than once a month
- Once a month
- Twice a month
- More than twice a month

Q3. Have you attended any training at the school garden?

Select\_one: Yes/No

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Module 3: Farm management knowledge test (10 min)

Task:

Enumerators will ask students a set of 10 questions on farm management knowledge: 4 multiple-choice questions and 6 true-or-false questions.

1. Which of the following is a reason why sandy soil should be avoided for crop production?  
Select all that apply.

*[Enumerator instructions: Read out options (a)-(c), ask yes/no. After reading (a)-(c), record the choice.]*

- a. Because it does not hold water
  - b. Because it does not have enough nutrients
  - c. Because it does not provide stable ground for crop growth
  - d. None of the above
2. It is important to loosen the soil before planting. Which of the following is a reason for that?  
Choose one answer only.

*[Enumerator instructions: Read out options (a)-(c), ask yes/no. After reading (a)-(c), record the choice.]*

- a. It allows roots to develop more quickly in the soil.
- b. It makes it easier for the plant to take in nutrients.

- c. It makes planting and water absorption easier.
- d. All of the above.

3. When should a farmer start weeding for cassava? Choose one answer only.

*[Enumerator instructions: Read out every option. After reading all options, ask subjects to choose one option. Record the choice.]*

- a. 1-2 weeks after planting
- b. 3-4 weeks after planting
- c. 5-6 weeks after planting
- d. 7-8 weeks after planting

4. Which of the following is true about cassava stem cuttings [sticks]? Select all that apply.

*[Enumerator instructions: Read out options (a)-(c), ask yes/no. After reading (a)-(c), record the choice.]*

- a. Older parts of a cassava stem are better than younger parts.
- b. Thicker cassava stems are better than thinner cassava stems.
- c. Cassava sticks with less nodes are better than sticks with more nodes.
- d. All of the above.

### **True or false questions**

5. When finding a site for planting cassava, it is good to find a place where water pools (sits down) when it rains.

*[Enumerator instructions: Ask if the statement is true or false, and record the choice.]*

Select one: True / False

6. How deep a cassava plant reaches into the soil depends on the angle the farmer puts the cassava sticks into the ground.

*[Enumerator instructions: Ask if the statement is true or false, and record the choice.]*

Select one: True / False

7. If you plant your cassava cuttings [sticks] closer to each other, you can get more produce because you have more crops for a given piece of land.

*[Enumerator instructions: Ask if the statement is true or false, and record the choice.]*

Select one: True / False

8. When choosing a farm site, one sign of fertile soil is that there are a large number of different plants in the field.

*[Enumerator instructions: Ask if the statement is true or false, and record the choice.]*

Select one: True / False

9. Weeding should always be done AFTER using fertilizer.

*[Enumerator instructions: Ask if the statement is true or false, and record the choice.]*

Select one: True / False

10. If brown spots show on the tips of cassava leaves, it is a sign that the soil lacks nitrogen [i.e. a kind of nutrients].

*[Enumerator instructions: Ask if the statement is true or false, and record the choice.]*

Select one: True / False

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#### Module 4: Beliefs about scores in the farm management test (5 min)

##### Introduction to module:

Just now I gave you a test about how to look after a farm. Now I would like to ask you a few questions about your views on the test.

##### Questions:

Q1. There were ten questions in the test. How many questions do you think you have answered correctly?

Numeric answer: 0-10

Q2. We are also giving the same test to students. Do you think the questions help test whether a student is a wise farmer? (7-point Likert scale)

*Enumerator instructions: First, ask the respondent whether he/she agrees or disagrees with the question, or whether he/she does not have an opinion.*

*Secondly, ask the respondent how much he/she (dis)agrees, by using the relevant response options (e.g. "Do you disagree badly, disagree or disagree small?")*

##### Choices:

Disagree badly/ Disagree / Disagree small/ Neutral(No opinion) / Agree small/ Agree / Agree badly

Q3. There were ten questions in the test. How many questions do you think your child can answer correctly?

Numeric answer: 0-10

*Present Q4a - Q4b on the same page in the survey.*

Q4a. Questions in the test were about how to look after a farm. Do you think that your child can correctly use the knowledge and practices in real life? (7-point Likert scale)

*[Enumerator instructions: Please remind the subject that this is about whether the child can correctly use the knowledge and practices in the current rainy season.]*

Choices:

Disagree badwy/ Disagree / Disagree small/ Neutral(No opinion) / Agree small/ Agree / Agree badwy

Q4b. Would the town chief think that your child can correctly use the knowledge and practices in real life? (7-point Likert scale)

*[Enumerator instructions: Please remind the subject that this is about whether the child can correctly use the knowledge and practices in the current rainy season.]*

Choices:

Disagree badwy/ Disagree / Disagree small/ Neutral(No opinion) / Agree small/ Agree / Agree badwy

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#### Module 5: Agricultural innovations test (10 min)

Task:

Enumerators will ask subjects a set of 10 short questions on the promoted agricultural innovations. These 10 questions are about the following promoted innovations:

1. Composting
2. Making mounds or ridges for roots and tubers
3. Making vegetable gardens using the dig-dig method
4. Direct seeding and transplanting
5. Seed germination test

Questions:

*For Q1, show the following pictures of compost piles and pits.*



*(Read to subjects) Explanation:*

*Composting is a practice of making natural fertilizer. This means the fertilizer does not use any chemical material, it is only natural. Farmers can use things like animal waste or poo, cassava dirt, and leaves. It can either be made above the ground, in piles (enumerator, show the picture).*

*You can also make a hole in the ground, and put the materials in there. These are called pits (enumerator, show the picture).*

Q1a. Have you ever made compost fertilizer piles or pits?

Select one: Yes / No

Q1b. A compost [fertilizer] pile, which is above the ground, should be turned after how many weeks?

Numeric answer: range = 0-10

Q1c. True-or-false: During the rainy season, it is better to use pits than piles to make a compost [fertilizer].

*[Enumerator instructions: Ask if the statement is true or false, and record the choice.]*

Select one: True / False

For Q2, show the following pictures of mounds and ridges.



*(Read to subjects) Explanation:*

*These are raised beds. This means the farmer does not farm on flat land. There are two types. One is like a hill, and is called mounds. They look like this (enumerator, show the picture).*

*One is called ridges, and looks like this (enumerator, show the picture).*

Q2a. Have you ever made mounds or ridges for growing roots and tuber crops [e.g. cassava and sweet potatoes]?

Select one: Yes / No

Q2b. Which of the following is a benefit of using mounds and ridges to grow cassava?

*Enumerator instructions: Read out options (a)-(c), ask yes/no. After reading (a)-(c), record the choice.*

(a) It prevents the crop from taking in too much water when it rains.

- (b) It allows plants to reach deeper into the soil and grow bigger.
- (c) It makes harvesting easier.
- (d) All of the above.

Q2c. True-or-false: On steep slopes, it is always better to grow cassava using ridges than mounds.

*Enumerator instructions: Ask if the statement is true or false, and record the choice.*

*For Q3, show the following picture of a vegetable garden made using the double-dig method.*



*(Read to subjects) Explanation:*

*This is a garden using the dig-dig method. The topsoil is first removed.*

*You take other soil that is rich in nutrients and you replace the topsoil with it.*

Q3a. Have you ever made a vegetable garden using the dig-dig method?

Select one: Yes / No

Q3b. True-or-false: After using the dig-dig method, you should step in the garden bed to water the plants.

*[Enumerator instructions: Ask if the statement is true or false, and record the choice.]*

Select one: True / False

Q3c. Select one: After using the dig-dig method, what should you use to water the plants?

*[Enumerator instructions: Read out options (a) and (b). After reading (a) and (b), ask the subject to choose one. Record the choice.]*

- (a) Watering can
- (b) Water bucket

Select one: (a) / (b)

For Q4, show the following picture of a nursery.



*(Read to subjects) Explanation:*

*This is a nursery. The practice of transplanting means to plant seeds first in the nursery, and then taking seeds to the field.*

Q4a. Have you ever moved seeds from the nursery to the field?

Select one: Yes / No

Q4b. After how many weeks can you move pepper seeds from the nursery to the field?

*Enumerator instructions: Ask the subject to give a number, and record the number.*

Numeric answer: range = 0-10

Q4c. Multiple choice: For which of the following crops, it is better to sow seeds directly into the soil than to start in the nursery?

*Enumerator instructions: Read out every option. After reading all options, ask the subject to choose one. Record the choice.*

- (a) Collard greens
- (b) Eggplant
- (c) Okra
- (d) Bitterballs

Select one: (a) / (b) / (c) / (d)

For Q5, show the following picture of a seed germination test.



*(Read to subjects) Explanation:*

*The purpose of a seed test is to see if seeds are usable for planting. Some people also call it a seed germination test. It can either be done on a nursery or in a rolled cloth (enumerator, show this picture and the picture on the next page). Show the picture and explain to the respondent this is also the rolled cloth method. You can also put the seeds in a bucket of water to do a seed germination test (enumerator, show the picture).*

Q5a. Have you ever done a seed germination test before planting?

Select one: Yes / No

Q5b. After placing seeds in a rolled cloth, how many days do you have to wait to see the results of a seed germination test?

*Enumerator instructions: Ask the subject to give a number, and record the number.*

Numeric answer: range = 0-10

Q5c. Select one: Imagine you put 10 seeds to a seed germination test. In which situation do you need to get more seeds for planting?

*Enumerator instructions: Read out options (a) and (b). After reading (a) and (b), ask the subject to choose one. Record the choice.*

- (a) If 4 seeds germinate
- (b) If 6 seeds germinate

Correct answer: **(a)**

Select one: (a) / (b)

#### Introduction to Q6-Q8:

Just now I gave you a test about farming practices that students are learning in school. Now I would like to ask you a few questions about your views on the test.

Q6. If you want to know if students are paying attention and learning in their agriculture classes, do you think asking them these questions will make you know? (7-point Likert scale)

*Enumerator instructions: First, ask the respondent whether he/she agrees or disagrees with the statement, or whether he/she does not have an opinion.*

*Secondly, ask the respondent how much he/she (dis)agrees, by using the relevant response options (e.g. "Do you disagree badwy, disagree or disagree small?")*

Choices:

Disagree badwy/ Disagree / Disagree small/ Neutral(No opinion) / Agree small/ Agree / Agree badwy

Q7. The test has 10 questions. How many questions do you think your child can answer correctly?

Numeric answer: range = 0-10

Q8a. Do you think that your child can correctly use the new practices in this rainy season? (7-point Likert scale)

*Enumerator instructions: Please remind the subject that this is about whether the child can correctly use the new practices in the current rainy season.*

Choices:

Disagree badwy/ Disagree / Disagree small/ Neutral(No opinion) / Agree small/ Agree / Agree badwy

Q8b. Would the town chief believe that your child can correctly use the new practices in this rainy season? (7-point Likert scale)

*Enumerator instructions: Please remind the subject that this is about whether the child can correctly use the new practices in the current rainy season.*

Choices:

Never believe/Not believe/Maybe not believe/Don't know what he/she will think/Maybe believe/Believe/Surely believe

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Module 6: Beliefs about yields (5 min)

Questions:

Q1. Do you have a nursery on your farm/on one of your farms?

Choices: yes/no

Q2. Do you have experience harvesting cassava?

*Enumerator instructions: Emphasize to the subject that this is about the harvesting process, not the planting process.*

Select one: Yes/No

Q3a. Imagine an adult farmer in your community grows cassava for 9-10 months. What do you think is the highest number of cassava tubers that can be harvested from 1 plant?

[Enumerator instruction: Remind the subject that this adult farmer is not from the subject's family.]

Numeric answer: 0-15 (Do not show subjects the range. If the subject gives a response outside this range, ask him/her to revise and show visual aid again.)

**Include visual aids**



Q3b. Now imagine that person grows 4 cassava plants. Some of these plants might do well, some of these plants might not do well. How many cassava tubers do you think the person could harvest from 4 plants?

[Enumerator instruction: If the subject reports a number that is different from 4 times the amount reported in Q2a, this does not mean the answer is wrong.]

Numeric answer: 0-60 (Do not show subjects the range. If the subject gives a response outside this range, ask him/her to revise and show visual aid again.)

*Include visual aids*



Q4a. Now imagine that your child grows cassava on **[his/her]** own for 9-10 months. What do you think is the highest number of cassava tubers that can be harvested from 1 plant?

Numeric answer: 0-15 (Do not show subjects the range. If the subject gives a response outside this range, ask him/her to revise and show visual aid again.)

*Include visual aids*



Q4b. Now imagine your child grows 4 cassava plants. Some of these plants might do well, some of these plants might not do well. How many cassava tubers do you think [he/she] could harvest from 4 plants?

Note: If the subject reports a number that is different from 4 times the amount reported in Q3a, this does not mean the answer is wrong.

Numeric answer: 0-60 (Do not show subjects the range. If the subject gives a response outside this range, ask him/her to revise and show visual aid again.)

*Include visual aids*



Q5a. Based on your answers to previous questions, you think that your child can harvest [more/the same number of/less] cassava tubers [than/as/than] an adult farmer in your community. Is that correct?

Select one: Yes/No

[Enumerator instruction: If the subject answers no in Q4a, show Q2b and Q3b again on the same screen. Allow the subject to revise his/her answers to Q2b and Q3b. Then ask Q4a again.]

Q5b. You think that your child can harvest [more/the same number of/less] cassava tubers [than/as/than] an adult farmer in your community. Would the town chief agree with you? (7-point Likert scale)

Choices:

Disagree badwy/ Disagree / Disagree small/ Neutral(No opinion) / Agree small/ Agree / Agree badwy

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#### Module 7: Beliefs about other student attributes (5 min)

Q1. Would your child select agriculture as the first choice of job after finishing school?

Enumerator instruction: Remind the subject that this choice is made by the student, not by the subject.

Choices:

Disagree badwy/ Disagree / Disagree small/ Neutral(No opinion) / Agree small/ Agree / Agree badwy

Q2. Imagine that your child farms on [his/her] own from now for 1 year. Do you think your child would be able to make enough money to pay all [his/her] school fees in the next school year? (7-point Likert scale)

Choices:

Disagree badwy/ Disagree / Disagree small/ Neutral(No opinion) / Agree small/ Agree / Agree badwy

Q3. Imagine that your child farms on [his/her] own from now for 1 year. Do you think your child would leave [his/her] farms not taken care of at some point of the agricultural season? (7-point Likert scale)

Choices:

Disagree badwy/ Disagree / Disagree small/ Neutral(No opinion) / Agree small/ Agree / Agree badwy

Q4: [Enumerator records] How many elders are there in the session?

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### Module 8: Farming investments (10 min)

Q1a. Which of the following did you buy for your farm in the past year? Select all that apply.

Select multiple:

- Livestock
- Farmland for myself
- Farmland for other family members
- Farming machines (e.g. tractors, ploughs)
- Farming tools (e.g. axe, shovel)
- Food processing equipment
- Other, please specify.
- None of the above

Q2a. Repeated question based on selections to Q1 (*not applicable if Q1a None of the above was selected*).

How much did you spend on [selected item] during the past year?

Select one:

- LR\$200.00 - LR\$2,000.00
- LR\$2001.00 - LR\$5,000.00
- LR\$5,001.00 - LR\$10,000.00
- LR\$10,001.00 - LR\$20,000.00
- Above LR\$20,000.00

Q3. How did you pay for these things? Select all that apply (*not applicable if Q1a None of the above was selected*).

Select multiple:

- Savings (from farming)

- Savings (from other business)
- Loan from the bank
- Loan from church/mosque
- Borrowed from friends/relatives
- Gift from friends/relatives
- Other, please specify.

Q4a. Were there any things you wanted to buy for your farm, but did not?

Choices: Yes/No

*Q4b. Applicable if yes to Q4a.*

Why did you not buy the things you wanted to? Select all the reasons that apply.

Select multiple

- I did not have enough money
- Investing in my farm is not my priority
- It was not needed for my farm
- I wanted to invest, but my partner/family member did not allow me
- I wanted to invest, but I did not meet some of the requirements to get a loan
- The things I wanted to buy are not available
- The things that were available were of poor quality
- Other, please specify.

Q5. Imagine you would win a large sum of money. What would you spend it on? Please pick the three (3) things you would most like to spend this money on.

Select multiple

- Savings
- My children's education
- My house
- My health
- My farm
- My other business
- Enjoyment
- Food or necessary household items
- Give it to my family
- Other, please specify

Q6. Have you bought land for any of your children in the past year?

Choices: Yes/No

Q7. *If yes to Q6.*

Why did you buy this land? Select all that apply.

Select multiple

- For my child/children to build a house
- For my child/children to farm
- For my child/children to build a business
- For my child/children to use it anyway he/she wants

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*END OF SURVEY*