

## Plantain Value Chain

### VILLAGE/COMMUNITY LEVEL PRODUCERS

#### Background & Geographical Information

1. Name of supervisor?
2. What is the name of enumerator/data collector?
3. Date of data collection?

GPS readings	Waypoint ID	Latitude
	Longitude	Altitude

1. Name of the Country: put countries in alphabetical order
2. Region/ State/ Province
3. District /Local Government Area
4. Village/community (HQ)
5. Approximate number of households \_\_\_\_\_ % Female-headed households: \_\_\_\_\_
6. Estimated population: Men \_\_\_\_\_ Women \_\_\_\_\_
7. Approximate number of plantain producers: Women \_\_\_\_\_ Men: \_\_\_\_\_
8. Approximate number of plantain producers: Women \_\_\_\_\_ Men: \_\_\_\_\_
9. Number of poor families in the village \_\_\_\_\_ (as defined by food/plantain insecurity)
10. Percentage of poor families in the village \_\_\_\_\_ %

#### Discussion attendance

How many are males?		Group Leader/Representative	
How many are females?		Full name	
Age of the youngest		Gender	
Age of the oldest		Age	
		2 <sup>nd</sup> Occupation	
		Tel. No	

#### Plantain Production

1. What are the dominant crops produced in your village? (Rank 1st = most important and fill using the codes mentioned below)

Crop* ranked by Overall importance	Rank by land area	Rank by sales	Rank by quantity consumed
1 .....	1 .....	1 .....	1 .....
2 .....	2 .....	2 .....	2 .....
3 .....	3 .....	3 .....	3 .....

\*1=Plantain; 2=Cassava; 3 Cocoyam; 4=Yam;5=Maize; 6=Rice; 7=Sorghum; 8=Millet; 9=Groundnut; 10=Vegetables; 11=Cocoa; seeds; 12=Oil palm; 13=Rubber; 14=Citrus.

- 2.
3. What is the economic importance of plantain in your area?
4. Production system (crop) mainly used? Sole plantain \_\_\_\_\_ intercropping \_\_\_\_\_ (with which crop\*) ; both (sole + intercropping) \_\_\_\_\_
5. Yearly production capacity, per typical plantain producer \_\_\_\_\_ (# plants) using an area of \_\_\_\_ (Acre)

6. Type of common plantain farm? 1=home consumption only, 2=semi-commercial (both for home consumption and sale), 3=Commercial farm, 5=Other (specify) \_\_\_\_\_

7. Who is predominantly involved in plantain growth and production activities (Tick only once per column)

Gender	Land preparation	Sucker collection	Planting	Agronomic management	Harvesting	Marketing	Comments
Men							
Women							
Men and women							
Youth (<20years)							
Men, women, and youth							

8. What are major production constraints for plantain in this area? (Ranking per priority)

9. Production calendar of current plantain production

Main activities for growing banana	Month
Land preparation	
Sucker collection	
Planting	
Agronomic management: de-suckering	
Agronomic management: de-trashing	
Agronomic management: corm removal	
Agronomic management: mulching	
Agronomic management: weeding	
Agronomic management: fertiliser	
Agronomic management: manure	
Harvesting	
Marketing	
Other (specify)	
Other (specify)	
Other (specify)	

10. Which type of planting materials do you use? (Suckers, corms, etc.)

11. Where is your source of planting materials for the typical plantain farmer? 1=Own plantation, 2=Other farmer; 3=Local market; 4=Other market, 5=NGO, 6=International Research center, 7=NARS, 8= Community-based seed producer/Farmer group/CBO/Local seed Business; 9=seed company; 10=farmer cooperative; 11=other (specify)

12. What is the main reason for your choice of source of your planting materials? 1=Available source, 2=Free source; 3=Cheaper source; 4=Trusted source, 5=Near village or homestead, 7=Others, specify

13. How often does a typical plantain farmer replace the plantain planting material on their farm?

14. Is it possible to purchase planting material for plantain in this community? 1=Yes, 2=No; If yes, what was price of planting material in 2022 season (GhC) ?

15. Is it possible to sell planting material for plantain in this community? 1=Yes, 2=No; If yes, what was the price of planting material for the 2022 season (GhC) ?

16. How do you differentiate plantain varieties/types from one another? 1=Fruit colour, 2=Fruit taste, 3=Fruit shape, 3=Fruit size, 4=Plant height, 5=Other (specify)

#### Plantain diversity and management

1. How many types/varieties of plantain do you have in your fields in this village?

2. List specific names of plantain varieties/types per priority (1=most important) currently producing/using

No	Common variety (specify if local or improved)	No of years in use	Reasons for keeping use of a given variety*	Height	Yield (bags per acre [football field])	Quality (1: poor; 2: medium; 3: good)	Disease tolerance
1							
2							
3							
4							
5							

Commented [SG1]: Add units for 'quality'

\* Possible reasons: 1=High yield, high adaptability to local climatic/ soil conditions; 2=High disease and pest resistance; 3=Maturity period; 4=Farmers familiarity; 5=High selling price and/or stable market; 6=Easy to afford planting material/ reuse saved planting material; 7=better for boiling; 8: better for frying, 9=Others, specify

- According to the group, which plantain variety are the best genotype or variety (top 3 with 1=most important)? Why?
- Do farmers in this community practice varietal/landraces selection? If yes, what are farmer's variety selection criteria? Also, please rank these criteria (top 5 – agreement); please, give reasons for the ranking (why?).
- Do you plant improved plantain varieties in this community?
- Between local and improved varieties, which ones are preferred in this community? 1=Local, 2= Improved; Why?
- Are there varieties you have stopped growing (over the years) in this community? 1=Yes, 2=No
- If yes, could you tell us local name/description of the varieties?
- Why have you stopped growing the varieties?
- What could be done to ensure that your community does not stop producing preferred plantain varieties?
- How is the diversity of the plantain genetic resources in your community today as compared to 10 years ago?  
1=Increased, 2=Decreased, 3=No change
- If increased, why?
- If decreased, why?

**Plantain use and marketing**

- At which price do you sell plantain this season – 2023 (GhC) : per bunch \_\_\_\_\_ per kg \_\_\_\_\_ per finger \_\_\_\_\_
- You sell plantain every \_\_\_#\_\_\_ weeks, \_\_\_#\_\_\_ Months, or (specify) \_\_\_\_\_
- How do you know the right time to harvest? \_\_\_\_\_
- Usual harvesting stage: 1=Green mature, 2=Medium, 3=Ripened
- How many times do you harvest per year (from one mat/hill) 1=once, 2=twice, 3=thrice, 4=four times, 5=Other (specify) \_
- Average weight per bunch (kg) \_\_\_\_\_ Average number of fingers per hand \_\_\_\_\_
- What are the uses of the plantain produced in the average household in this community? (1=Sale, 2=home consumption (food); 3=home consumption (non-food: rope, etc.); 4=both sale and home consumption (food); 5=4=both sale and home consumption (non-food); 6=4=both sale and home consumption (food and non-food)
- If you divide the entire plantain harvested by a typical farmer into 10 parts, how many parts do you consume as food (compared to non-food)? \_\_\_\_\_ Parts out of 10
- For the plantain used to make non-food items (rope, etc.), which type of items do you make (name and key ingredients from plantain tree)?
- Please list the user characteristics/traits you prefer for the plantain tree used for non-food items; please rank these traits, selecting up to your top five characteristics/traits; why are these characteristics/traits preferred?
- Please list the producer characteristics/traits you prefer for the plantain used for non-food items; please rank these traits, selecting up to your top five characteristics/traits; why are these characteristics/traits preferred?
- What are missing traits/characteristics you have identified for the plantain tree used for non-food items?

13. For food consumption, does the average/typical household in this community only consumes the plantain it has produced? Or does it also buy plantain for home consumption? If you divide the entire plantain consumed in a week (as food) into 10 parts, how many parts would be purchased for food consumption around harvest time? What about around the hunger period (between March to July)?

Source of the plantain consumed by the average household in this community:

A: Home production only

B: purchase only

14. How many days in a week does a typical household in this community consume plantain as food?

15. If you divide the entire plantain consumed (as food) into 10 parts, indicate how many parts are consumed (over a one-week period) as:

Raw (not cooked)? \_\_\_\_\_ Parts out of 10  
Boiling? \_\_\_\_\_ Parts out of 10  
Frying? \_\_\_\_\_ Parts out of 10  
Roasting? \_\_\_\_\_ Parts out of 10  
Baking? \_\_\_\_\_ Parts out of 10  
Plantain flour? \_\_\_\_\_ Parts out of 10  
Other (please specify) \_\_\_\_\_ Parts out of 10

16. For the plantain consumed raw, which type of meals do you make (name and key ingredients)?

17. Please list the consumer characteristics/traits you prefer for the plantain used raw.

- a. Please rank these traits, selecting up to your top five characteristics/traits
- b. Why are these characteristics/traits preferred?

18. Please list the producer characteristics/traits you prefer for the plantain used raw.

- a. Please rank these traits, selecting up to your top five characteristics/traits.
- b. Why are these characteristics/traits preferred?

19. What are missing traits/characteristics you have identified for the plantain used raw?

20. For the plantain used for boiling, which type of meals do you make (name and key ingredients)?

21. Please list the consumer characteristics/traits you prefer for the plantain used for boiling.

- a. Please rank these traits, selecting up to your top five characteristics/traits
- b. Why are these characteristics/traits preferred?

22. Please list the producer characteristics/traits you prefer for the plantain used for boiling.

- a. Please rank these traits, selecting up to your top five characteristics/traits
- b. Why are these characteristics/traits preferred?

23. What are missing traits/characteristics you have identified for the plantain used for boiling?

24. For the plantain used for frying, which type of meals do you make (name and key ingredients)?

25. Please list the consumer characteristics/traits you prefer for the plantain used for frying.

- a. Please rank these traits, selecting up to your top five characteristics/traits
- b. Why are these characteristics/traits preferred?

26. Please list the producer characteristics/traits you prefer for the plantain used for frying.

- a. Please rank these traits, selecting up to your top five characteristics/traits
- b. Why are these characteristics/traits preferred?

27. What are missing traits/characteristics you have identified for the plantain used for frying?

28. For the plantain used for roasting, which type of meals do you make (name and key ingredients)?

29. Please list the consumer characteristics/traits you prefer for the plantain used for roasting.

- a. Please rank these traits, selecting up to your top five characteristics/traits
- b. Why are these characteristics/traits preferred?

30. Please list the producer characteristics/traits you prefer for the plantain used for roasting.

- a. Please rank these traits, selecting up to your top five characteristics/traits
  - b. Why are these characteristics/traits preferred?
31. What are missing traits/characteristics you have identified for the plantain used for roasting?
32. For the plantain used for baking, which type of meals do you make (name and key ingredients)?
33. Please list the consumer characteristics/traits you prefer for the plantain used for baking.
- a. Please rank these traits, selecting up to your top five characteristics/traits
  - b. Why are these characteristics/traits preferred?
34. Please list the producer characteristics/traits you prefer for the plantain used for baking.
- a. Please rank these traits, selecting up to your top five characteristics/traits
  - b. Why are these characteristics/traits preferred?
35. What are missing traits/characteristics you have identified for the plantain used for baking?
36. For the plantain used to make plantain flour, which type of meals do you make (name and key ingredients)?
37. Please list the consumer characteristics/traits you prefer for the plantain used for plantain flour.
- a. Please rank these traits, selecting up to your top five characteristics/traits
  - b. Why are these characteristics/traits preferred?
38. Please list the producer characteristics/traits you prefer for the plantain used for plantain flour.
- a. Please rank these traits, selecting up to your top five characteristics/traits
  - b. Why are these characteristics/traits preferred?
39. What are missing traits/characteristics you have identified for the plantain used for plantain flour?
40. For the plantain used to make 'other' food, which type of meals do you make (name and key ingredients)?
41. Please list the consumer characteristics/traits you prefer for the plantain used for 'other' food.
- a. Please rank these traits, selecting up to your top five characteristics/traits
  - b. Why are these characteristics/traits preferred?
42. Please list the producer characteristics/traits you prefer for the plantain used for 'other' food.
- a. Please rank these traits, selecting up to your top five characteristics/traits
  - b. Why are these characteristics/traits preferred?
43. What are missing traits/characteristics you have identified for the plantain used for 'other' food?
44. Have you had any training about plantain consumption and processing? 1=Yes, 2=No
45. If yes, from which source? 1=Lead farmer; 2=Institute; 3=Other (please specify)
46. Where do you sell plantain mostly? \_\_\_ (1 = Farm-gate; 2 = Village market; 3 = Other (specify), etc.)
47. If you divide the plantain you sell into 10 parts, how many parts do you take to market and how many parts do other producers or traders come to you and buy (for the typical/average household in your community)?
- To market \_\_\_\_\_ Parts out of 10  
Traders come for \_\_\_\_\_ Parts out of 10
48. What is the sale dynamics for plantain over a one-year period in your community (do you sell more in some months compared to others or do you sell roughly the same amount every month?)
- a. Please specify the months and the approximate number of bunches sold per month.

Month	Amount per typical farmer
January	
February	
March	
April	
May	
June	
July	
August	

September	
October	
November	
December	

49. Describe the relationships you have with the people buying plantain in this community/village
- Is relationship based on contracts or is it based on first come first served?
  - Do you know before planting what the buyers are looking for or do you have to make estimates?
  - How is the selling price defined (individual farmer or farmers' group versus buyer)?
50. Where is the bulk of the plantain produced in this community sold? 1=Other rural areas? 2=Cities; 3=Exported to other countries?
51. Do all plantain growers produce their own seeds? 0=No; 1=Yes
52. If Yes, are the seeds produced in sufficient quantities? What are your perceptions on the "quality" of the seeds?
53. Do you have specialised plantain seed producers? 0=No; 1=Yes. Are they in your community?

**OBSERVATIONS**

- Any comment/Observation? (Only for physical/face to face interviews)