**SEED PRODUCERS**

**ENUMERATOR/SURVEY INFORMATION**
1. Name of supervisor
2. Name of enumerator/data collector
3. Date of data collection
4. GPS coordinates

**GEOGRAPHICAL INFORMATION OF THE SEED PRODUCER**
1. Name of the Country:
2. Region/State
3. District/Local Government Area
4. Village/community (HQ)

**PRODUCER INFORMATION**
1. **Name of the plantain seed producer association/institution.**
2. **Type of plantain seed producer:** 1=NARS, 2=Seed company, 3=Community-based seed producer/Farmer group/CBO/Local seed Business, 4=individual seed producer, 5=Farmer Cooperative (formal), 6= NGO, 999=If Other, specify
3. **Phone number of the plantain seed producer or contact person (OPTIONAL)**
4. **If an Individual seed producer**
   4. If an individual seed producer, is the plantain seed producer formally registered as a seed business entity? 1= Yes, 0=No
   5. If yes, where is the plantain seed business registered? 1= Local Community/Village Level, 2=National Level, 3= With a seed company, 4= not registered (farmer produces both the plantain fruit and the planting material); 999= If other specify...
   6. What is the plantain seed producer’s gender? 1= Male, 0= Female
   7. What is the age (years) of plantain seed producer?
   8. For how long (years) have you been in the plantain seed production business?
5. **If a 3=Community based seed producer/Farmer group/CBO/Local seed Business, 5=Farmer Cooperative (formal), 6= NGO**
   9. If a community-based seed producer/farmer coop or NGO, is the plantain seed producer formally registered as a seed business entity? 1= Yes, 0=No
   10. If yes, where is the plantain (SEED PRODUCER) registered? 1= Local Community/Village Level, 2=National Level, 3= With a seed company, 999= If other specify...
   11. What is the name of the plantain (SEED PRODUCER) seed business?
   12. For how long (years) has the plantain (SEED PRODUCER) business been in operation? [...]
   13. How many plantain seed producers in the (SEED PRODUCER) organization are MALES
   14. How many plantain seed producers in the (SEED PRODUCER) organization are MALE youth (below 35 years)?
   15. How many plantain seed producers in the (SEED PRODUCER) organization are FEMALES?
   16. How many plantain seed producers in the (SEED PRODUCER) organization are FEMALE youth (below 35 years)?
   17. **If a 2=Seed company or sub-contractor**
   17. What is the name of the seed company? [...]
20. How many employees in the seed company are MALES? [...]
21. How many employees in the seed company are FEMALES? [...]

MULTISTAKEHOLDER AND OFFTAKER LINKAGE INFORMATION (all types of plantain seed producers)
1. How easy is it for you to get customers for your planting material? 1=very difficult; 2= somewhat difficult; 3=difficult; 4=somewhat easy; 5=very easy
2. Are you linked to a plantain multi-stakeholder platform (association)? 1= Yes, 0=No
3. If yes, what is the name of the plantain multi-stakeholder platform that supports plantain-related activities for the seed producer?
4. How long (years) have you been linked to the plantain multi-stakeholder platform?

VARIETY PRODUCTION INFORMATION
Varieties, seed classes and seed production arrangements
1. What did you consider when choosing the plantain varieties, you produced for seed in 2022? 1=Consult from experts, 2=Depend on previous sales, 3= Market research, 4=needs of my customers (give details), 999=If other specify
2. How many plantain varieties did you produce last year? (Hint: in 2022)
3. Name of the plantain varieties produced. List the varieties produced beginning with the most important in volume. (Notes: Prepare a list with variety names and Pictures as reference + Seed sample if possible)
4. What are the uses of plantain variety [VARIETY_NAME] that you produced in 2022? 1=Non-food; 2=Food: raw; 3=Food: boiling; 4=food: frying; 5=food: roasting; 6=food: baking; 7=food: plantain flour; 8=Food: other (specify)
5. Please list the preferred characteristics/trait for the plantain variety [VARIETY_NAME]; according to you, why are these traits preferred?
6. Which traits do you think are missing in variety [VARIETY_NAME] that would it a better variety?
7. Where did you first hear from variety [VARIETY_NAME] 1= Radio, 2=TV, 3= Seed fair/shows, 4=Demo, 5=field day, 6=Print media, 7= Variety release catalogue, 8=through Extension services/ADP, 9= Research/NARS, 10=Friends/Neighbours, 999=Others
8. What was the source of [VARIETY_NAME] plantain variety (1,2… n)? 1=Research Station, 2=Seed Company, 3=Agro-Dealer, 4=NGO, 5=CBO, 6=My own produced seed, 999= if other specify.
9. What was the seed class of [VARIETY_NAME] planted? 1=Breeder seed, 2=Foundation seed, 3=Certified seed, 5=Quality Declared seed, 999= If other specify.
10. Do you replant plantain seed from the same batch as a seed business? (hint: this is about recycling seed): 1=Yes, 0=No
11. If yes, why do you replant plantain seed from the same batch? (Hint: this is about recycling seed) (Notes: Allow multiple response) 1=High cost of seed, 2=Limited seed availability, 3=Long distance to seed source, 999= If other specify [...]
12. How many times do you replant plantain seed from the same batch before refreshing the same seed? (Hint: this is about recycling seed) [...]

If a Seed company
1. What is your type of seed production method*: 1=Own farm; 2=Outgrowers; 3=Contracted Individual seed producer; 4=non-contracted individual seed producer; 5= Imported from other companies/abroad, then processed and packed with your own label for marketing; 999= If others specify (Notes: if mixed methods, allow them to be captured as multiple response)
2. How many plantain seed growers does the seed company work with? [...]
3. How many seed growers working with the seed company are MALE?
4. How many seed growers working with the seed company are MALE YOUTH (Less than 35 years?)
5. How many seed growers that work with the seed company are FEMALE?
6. How many seed growers that work with the seed company are FEMALE YOUTH (Less than 35 years?}
7. What is the average period (years) the seed company has worked with different seed growers? [...] 
8. What seed supply arrangement is used to provide seed to contracted seed growers? 1= Seed credit paid back in kind after harvest, 2= Seed credit paid by in cash, 3= Out right cash seed purchase, 999= Other specify...

Seed variety production information (Reference year is 2022)
1. What was the total area planted with [VARIETY_NAME]. (Hint: for all seed planted including by seed growers in 2022) ______ unit of land (acres, hectares, other: specify) 
2. What quantity of plantain seed (in number of suckers) of [VARIETY_NAME] was planted? (Hint: for all seed planted including by seed growers in 2022) ______ unit in kilograms 
3. What measures do you often employ to ensure that quality (SEED CLASS) of plantain is produced? 1= Plant quality seed, 2= Proper field scouting to rogue off types, 3= Good field hygiene, 4= Proper agronomic management, 5= Seed treatment, 999= if other specify [...] 
4. Are your plantain [SEED CLASS] fields normally inspected? 1=Yes, 0= No 
5. If yes, who normally inspects your plantain [SEED CLASS] fields? 
6. How many times are your plantain [SEED CLASS] fields inspected? 
7. When are inspections of your plantain [SEED CLASS] fields normally done? 1= At spouting, 2= At flowering, 3= Harvest, 999= If other specify 
8. How much do you pay for inspection of your plantain [SEED CLASS] fields per unit area? 
9. Do you get feedback on the quality of your seed from the inspectors and/or customers? 1=Yes, 0= No

SEED MARKETING INFORMATION
1. Did you sell any of the plantain [SEED CLASS] produced in 2022? 1=Yes, 0= No 
2. How many varieties of plantain [SEED CLASS] did you sell in 2022? 
3. Which month did you sell most of the plantain [SEED CLASS]? 1= January, 2= February, 3= March, 4= April, 5= May, 6= June, 7= July, 8= August, 9= September, 10= October, 11= November, 12= December 
4. Name of the varieties sold in 2022. 
5. What was the rank (in volume) of the planting materials of [VARIETY NAME] plantain [SEED CLASS] which were sold? 
7. What price was [VARIETY NAME] plantain [SEED CLASS] sold? 
8. How do you establish your selling price of [VARIETY NAME] plantain [SEED CLASS] sold? 1= Other vendors, 2= Buyers' demand, 3= Based on costs of seed production, location, 4= Time of the year, 5= Government price regulators, 999= If other specify 
9. Which outlet was used to sell plantain [SEED CLASS]? 1= Directly from the seed producer, 2= Seed producer's seed outlet, 3= Seed producer through seed fair, 4= Other agro input dealer, 999= Other (specify.) 
10. If seed outlet/Agro dealer, how many outlets/agro-dealers does the [SEED PRODUCER] work with? 
11. Do you provide credit or other payment options for your seed purchase? 1= Yes, 0= No 
12. What kind of sale arrangements do you have? 1= Cash, 2= Credit, 3= Discounted for bulk, 4= Discounted for preferred customer, 999= If others specify

Planting material storage and management
1. Do you treat your planting material before selling it? 1= Yes, 0= No 
2. If yes, how is plantain planting material treated? 1= Using insecticides, 2= Using fungicides, 3= Both insecticides and fungicides, 999= If other specify 
3. Do you normally experience losses on plantain planting material? 1= Yes, 0= No 
4. On average, how many out of 10 plantain planting material do you lose in a year? 
5. What is the major source of loss of planting material for the business? 1= Pest and disease, 2=, 999= If other specify
BUYER’S INFORMATION
1. Who were the buyers of your planting material that was produced in 2022? 1= individual buyers, 2= Community buyers, 3= NGOs, 4=CBOs, 5= Seed companies, 6= government, 999= if other specify.
2. Name of {buyer #} (Notes: only for bulk individual or institutional buyers. add provide a list/name of buyers depending on category/type ---- Add options of "I do not know")
3. Phone Number of {Buyer #} (Optional)
4. From which Region or District is {Buyer #} from?
5. From the individual/community buyers, what was the gender of most buyers? 1= Men – youth; 2= women – youth; 3= men – old; 4= women – old; 5= other (specify)
6. Approximately, how far (KM) were most buyers located from the [SEED PRODUCER]?
7. Were you able to meet the demand (supply all required volumes) for ${VARIETY NAME} plantain (SEED CLASS)? 1=Yes, 2= No
8. If no, what was the supply deficit (what clients needed but you did not have) (#planting material) for ${VARIETY NAME} plantain (SEED CLASS) from 2021 production?
9. Were you able to sell all the ${VARIETY NAME} plantain (SEED CLASS) that was available for sale from 2022 production? 1= Yes, 2= No
10. If no, what quantity (#planting material) remained unsold?

CAPACITY BUILDING AND INFORMATION DISSEMINATION CHANNELS
Training of contracted seed producers
1. Do you offer trainings to other seed producers? 1= Yes, 0= No
2. If yes, which types of seed producers were trained in seed production. 1= Community based seed producer/Farmer group/CBO/Local seed Business, 2= Individual seed producer, 3= Farmer Cooperative (formal), 4= Contracted producing farm, 5= Non-contracted/random individual seed producer
3. If yes, how many [TYPE OF PRODUCER] were trained?
4. Among all trainees, what was the proportion of male to female trainees?
5. What method of training were conducted/used? 1= Workshop with demonstration, 2= Farmer field school, 3= PVS exercise, 4= Field demonstrations, 999= If others specify
6. Which type of training did they receive? 1= Maintaining genetic purity in seed production, 2= Field disease identification, 3= Pest management, 4= Field variety identification, 5= Proper spacing, 6= Appropriate planting window, 7= Plant population, 8= Proper weed control, 9= Seed marketing, 10= Record Keeping, 999= Other specify
7. Do you disseminate information/hold promotions for your seed? 1= Yes, 2= No
8. If yes, what are some of the information dissemination channels you use to create awareness about {PLANTAIN} seed? Rank them according to order of importance. 1= Print material (leaflets, brochures, posters); 2= Agricultural shows; 3= Field days; 4= Demonstration plots; 5= Participatory variety selection; 6= Seed fairs; 7= Radio; 8= Television; 9= Social media platform; 10= Company extension agents; 11= Friends/Neighbours, 12= Animations; 13= Community gatherings; 14= None; 999= Other specify

Extension services offered
9. Do you offer seed-related extension services to farmers? 1= Yes, 0= No
10. If yes, what is the men to female ratio of [SEED PRODUCER]?

Challenges in seed production
1. What are the key challenges that you face as a seed producer?
2. How have you tried to cope with the challenges you face? What do you propose as a solution to the challenges you face?

OBSERVATIONS
2. Any comment/Observation? (Only for physical/face to face interviews)