

**Building a Rice data system for Sub-Saharan Africa:
a contribution to the Emergency Rice Initiative**

Specialized Questionnaire on Rice

PRODUCER LEVEL

African Rice Center (WARDA)

and

the National Agricultural Research System (NARS)

with the National Agricultural Statistic Service (NASS)

2.1. SOCIO-ECONOMIC DATA

Number of Questionnaire/ / / / /
Name of Province/Region/ /
Name of Division/District/ /
Name of Sub-division/Ward/ / /
Name of Village / Neighborhood...../ / /
Name of Household Head
Name of principal respondent during the interview.....
Agro Ecological Zone
Date of First contact...../ / / / / / / /
Date of Last Contact...../ / / / / / / /
Name of Enumerator.....
Name of Controller:.....
Date of Control:.....
Name of Supervisor:.....
Date of Control:.....

1- Observations of Enumerator :

.....

2- Observations of Controller :

.....

3- Observations of Supervisor :

.....

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1.2. Type of rice farming practiced over the last 5 years:

Year	Type of rice farming practiced			Type of development		
2008						
2007						
2006						
2005						
2004						

Code type of rice farming practiced: 1=irrigated; 2= Upland with supplementary irrigation;
3= Upland strict; 4= Upland with ground water; 5= lowland ; 6= mangrove ; 7= other (specify) :
.....

Code type of development: 1=without development, 2=developed

1.3. List the five most important crops grown over the last 5 years:

[] [] [] [] [] []

Crop code: 1=rice, 2=maize, 3=millet, 4=Sorghum, 5=cassava, 6=peanut, 7=beans, 9=cocoa, 10=coffee,
11=Coconut tree, 12=Palm tree, 13=cola nut tree, 14=Tomato, 15=egg plant, 16=pepper, 17=onion, 18=other
(specify)

1.4. Main sources of revenues and amount of revenues over the last 3 years

14.1 Main sources of income (over the last 3 years) in descending order of importance

[] [] [] [] []

Codes of main sources of income: 1=handicraft, 2=rearing, 3=processing, 4=commerce, 5=extraction (salt, honey, gravel, sand, mine), 6=salary
(fixed, temporary, contracts, etc.)

14.2 Amount of revenues

Income sources	2008	2007	2006
Income derived from rice production			
Income derived from other produce			
Non agricultural income			
First major non agricultural income source			
Second major non agricultural income source			
Third major non agricultural income source			

15. With which institution(s) have you worked with regard to rice farming and for how long?

Institutions	Type of relation	time (in years)
1.		
2.		
3.		
4.		

Codes for types of working relations: 1=gift of seeds, 2=purchase of seed from the institution, 3=sales of
agricultural seeds by the institution, 4=technical training conducted by the institution, 5=training, 6=credit, 7=Provides equipment
(agricultural equipment), 8=sales of fertilizer, 9=gift of fertilizer, 10=other (specify),

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2. EVALUATION OF RICE PRODUCTIVITY CONSTRAINTS

1. List of the five first major constraints that negatively affect your production

- 1.....
.....
- 2.....
.....
- 3.....
.....
- 4.....
.....
- 5.....
.....

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2.2. Rank the following constraints across all the ecologies under which you grow rice.

A/ Agronomic and biophysical constraints							
List of constraints (Stress)	Local name of constraint s (symptom)	Ranking of the constraints (coded) in each ecology					
		Irrigated	Upland with supplem entary irrigation	Upland strict	Upland with ground water	Lowland	Mangro ve
Biotic constraints							
Weeds							
Insects							
Birds							
Diseases							
-African rice gall midge							
-Stem borers (dead heart & whitehead)							
-Bacterial leaf blights							
-Blast							
-Rice yellow mottle virus							
Nematodes							
Termites							
Abiotic constraints							
Soil related constraints							
-Poor soil quality(low fertility)							
-Zn deficiency							
-Salinity / Alkalinity							
-Deficiency/low use efficiency of N, P, K							
-Iron (Fe) toxicity							
-Acidity							
-Soil erosion							
- Siltation							
Poor Water conservation measures							
Drought (inadequate water)							
Flooding							
Pre-harvest Physical grain loss							
Heat stress							
Cold temperature							

Code: 1=High; 2= Medium; 3= Low; 0= Not exist

NB: Use code 99 where farmer(s) knows nothing on the characteristic referred to (99= don't know)

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B/ Socioeconomics constraints (Access to key inputs)							
List of constraints	Local name of constraint (symptom)	Ranking of the constraints (coded) in each ecology					
		Irrigated	Upland with supplementary irrigation	Upland strict	Upland with ground water	Lowland	Mangrove
Land							
Small land size							
Poor property rights (ownership) on land							
Difficult to get land for renting							
Difficult to get land for buying							
Seed							
Poor quality of seed							
Seed not available							
Fertilizer							
High cost							
Not available through out the year							
Available late in the season							
Long distance to the fertilizer market							
Labor							
Not enough labor							
Labour cost too high							
Equipment & Infrastructure							
Difficult to acquire rice production equipment							
Difficult to acquire rice harvesting and/ or processing equipment							
Difficult to Manage equipment							
Difficult to maintain equipment							
Poor access to the road							
Water management at plot level							
Difficult to access water							
Difficult to manage water							
High cost of water fees							
Credit							
Non- availability of credit							

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High interest rate charges on credit							
Delays in acquiring credit							
Difficult to repay credit							
Post harvest grain losses due to	Local name of constraint (description of symptom)	Ranking of the constraints (coded) in each ecology					
		Irrigated	Upland with supplementary irrigation	Upland strict	Upland with ground water	Lowland	Mangrove
Threshing							
Winnowing							
Storage							
Transport							
Milling (removing husks)							
Product market							
Long distance to market for rice							
Low prices for rice							
High transport cost							
Lack of market/demand for rice							
Extension services							
Unavailability of extension services							
Lack of effectiveness							
Long distance to the extension workers							
Others							
Limited economic use of rice straw							

Code: 1=High; 2= Medium; 3= Low; 0= Do not exist

NB: Use code 99 where farmer(s) knows nothing on the characteristic referred to (99= don't know)

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3. KNOWLEDGE AND EXPERIENCE OF MAIN CONSTRAINTS

Name of main constraints as listed at village level	Knowledge of the constraint 1=yes, 2=no	If yes, Year of knowledge	Source of knowledge (see code)	Experienced at least once 1=yes, 2=no	If yes, Year of experience	Frequency of occurrence over the last 10 years	Proportion of area affected when occurred (%)	Proportion of yield loss (%) when the problem occurred last time	Cropping year: Whether the farmer experience constraint 1=yes, 2=no;				
									2008	2007	2006	2005	2004

Code for source of knowledge: 1= own experience, 2=farmer from the village, 3= farmer from another village, 4= NARS, 5=Extension Services, 6=NGO (specify name), 6= other facility (specify)

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4 THE MAGNITUDE OF THE EFFECT OF MAIN CONSTRAINTS

List below the major constraints you faced with during the last three years and appreciate their effect on your rice plot (farmers should list the constraints themselves)

Name of the main Constraints	2008		2007		2006	
	% area affected	% yield loss	% area affected	% yield loss	% area affected	% yield loss

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5. KNOWLEDGE, ACCESS, USE AND MANAGEMENT OF VARIETIES

5.1. KNOWLEDGE AND USE OF VARIETIES

Variety Code	Name of the variety (Varieties listed at village level)	Knowledge of the variety 1=yes, 2=no	Source of knowledge (see code)	Year of knowledge	Grown at least once 1=yes, 2=no	If yes First cropping year	Grown at least once over the last 5 years 1=yes, 2=no	Cropping year: 1=yes, 2=no			
								2009	2008	2007	2006

Code for source of knowledge: 1=farmer from the village, 2= farmer from another village, 3= NARS, 4=Extension Services, 5=NGO (specify name), 6=vocational organization, 7=other facility (specify), 8=local market, 9 = other (specify)

(Note for the enumerator: This concerns the codes and variety names as listed in module 4 of the village questionnaire. Prior to this, establish the list of codes and names of all the varieties in the table before asking the questions on each variety.

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5.2. ACCESS TO SEED

Variety Code	Name of the variety	Cropping year 2009							Cropping year 2008							Cropping year 2007						
		Could you access to the seed of this variety within the village?			Could you access to the seed of the variety outside the village?				Could you access to the seed of this variety within the village?			Could you access to the seed of the variety outside the village?				Could you access to the seed of this variety within the village?			Could you access to the seed of the variety outside the village?			
		1=yes 2=no	Source of access (Code 1)	Price per kg	1=yes, 2=no	Source of access (Code 1)	Distance to the source	Price Per kg	1=yes, 2=no	Source of access (Code1)	Price per kg	1=yes, 2=no	Source of access (Code1)	Distance to the source	Price per kg	1=yes, 2=no	Source of access (Code 1)	Price per kg	1=yes, 2=no	Source of access	Distance to the source	Price per kg

Code 1 :Source/receiver: 1=farmer or relative from the village, 2= farmer or relative from another village, 3= NARS, 4=Development project, 5=Agricultural Development Division, 6= NGO (specify name),7=farmers' organization, 8=another facility (specify), 9=local market, 10 =other (specify)

(Note for the enumerator: this concerns the codes and names of varieties that the farmer knows and which are listed in table 5.1. Please, kindly establish the list of codes and names of all the varieties in the table before asking the questions on each variety).

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5.3. PURCHASE, USE, and / or SALE of SEED

		Did you buy the seeds of that variety in the course of the year (Read year in the columns below and use codes 1=yes, 2=no)			Did you use your own seeds in the course of the year..... (Read year in the columns below and use codes 1=yes, 2=no)			Did you sell the seeds of that variety in the course of the year..... (Read year in the columns below and use codes 1=yes, 2=no)		
Variety Code	Name of variety	2009	2008	2007	2009	2008	2007	2009	2008	2007

Code 1 :Source/receiver: 1=farmer or relative from the village, 2= farmer or relative from another village, 3= NARS, 4=Development project, 5=Agricultural Development Division, 6= NGO (specify name), 7=farmers' organization, 8=another facility (specify), 9=local market, 10 =other (specify)

NB: show code for source or receiver in the second line below "Yes/ No" answer.

(Note for the enumerator: this concerns the codes and names of varieties that the farmer knows and which are listed in table 5.1. Please, kindly establish the list of codes and names of all the varieties in the table before asking the questions on each variety).

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5.4. DONATIONS, RECEIPTS and/or EXCHANGE OF SEED

		Have you given out seeds of that variety in the course of the year..... (Read year in the columns below and use codes 1=yes, 2=no)			Have you received seeds of that variety in the course of the year..... (Read year in the columns below and use codes 1=yes, 2=no)			Have you exchanged seeds of that variety in the course of the year (Read year in the column below and use codes 1=yes, 2=no)		
Variety Code	Name of variety	2009	2008	2007	2009	2008	2007	2009	2008	2007

Source/receiver: . 1=farmer or relative from the village, 2= farmer or relative from another village, 3= NARS, 4=Development project, 5=Agricultural Development Division, 6= NGO (specify name), 7=farmers' organization, 8=another facility (specify), 9=local market, 10 =other (specify) NB: show code for source or receiver in the second line below "Yes/ No"

6- SEEDS MANAGEMENT

$$\left[\begin{array}{c} \text{ } \\ \text{ } \end{array} \right] \quad \left[\begin{array}{c} \text{ } \\ \text{ } \end{array} \right] \quad \left[\begin{array}{c} \text{ } \\ \text{ } \end{array} \right]$$
$$\left[\begin{array}{c} \text{ } \\ \text{ } \\ \text{ } \end{array} \right] \quad \left[\begin{array}{c} \text{ } \\ \text{ } \\ \text{ } \end{array} \right] \quad \left[\begin{array}{c} \text{ } \\ \text{ } \\ \text{ } \end{array} \right]$$

[] 1=yes, 2=no

$$\left[\begin{array}{c} \text{ } \\ \text{ } \end{array} \right] \quad \left[\begin{array}{c} \text{ } \\ \text{ } \end{array} \right] \quad \left[\begin{array}{c} \text{ } \\ \text{ } \end{array} \right]$$

[] days

$$\left[\begin{array}{c} \sigma \\ \sigma \\ \sigma \end{array} \right] \quad \left[\begin{array}{c} \sigma \\ \sigma \\ \sigma \end{array} \right]$$

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[] []

1=I apply products to eliminate them; 2=the storage premises prevent intrusions, 3=I do not take any steps because their presence does not cause any damage to the quality of the seeds; 4=others (specify).

c. Steps regarding insects:

[] []

1=I apply products to eliminate them; 2=storage premises prevent intrusions, 3=I do not take any steps because their presence does not cause any damage to the quality of seeds; 4=others (specify).

6.12. During seeds selection for seeding, show the main arrangements you take from among the following steps:

[] [] []

Code for main arrangements:

1= We sort out panicles or grains to take those belonging only to the variety sought

2= We do not conduct any sorting, because the varieties are generally classified and separated; they cannot be mixed

3=No need to sort out because mixture has no significance and does not alter cropping

4= We sometimes mix seeds from several varieties to grow them together

5= We often mix seeds from several varieties to grow them together

6= We never mix seeds from several varieties to grow them

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7- SEED AVAILABILITY

7. What would be the maximum quantity of seeds that you can get from all possible sources if you do not have any financial constraint? Please kindly provide information for the last four years and for each variety known by the farmer (cultivated or not). For each variety, please kindly indicate the exact quantity of seeds.

Variety Code	Name of Variety	Year							
		2008 (kg)		2007 (kg)		2006 (kg)		2005 (kg)	
		Maximum Quantity	Real quantity needed	Maximum Quantity	Real quantity needed	Maximum Quantity	Real quantity needed	Maximum Quantity	Real quantity needed

(Note for the enumerator: this concerns the codes and names of varieties that the farmer knows and which are listed in table 5.1. Please, kindly establish the list of codes and names of all the varieties in the table before asking the questions on each variety).

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8. PRODUCTION AND MANAGEMENT OF PRODUCTION

8- 1. For each variety cultivated during the last two years, please give the area, quantity of seeds used, and quantity of paddy produced, quantity of paddy sold, quantity of paddy milled, and quantity of milled rice sold.

Variety		Cropping Season 2008-2009						Cropping Season 2007-2008					
Variety Code	Name of Variety	Cropped area	Quantity of seed used (kg)	Quantity of paddy produced (tones)	Quantity of paddy sold (tones)	Quantity of paddy milled (tones)	Quantity of milled rice sold	Cropped area	Quantity of seed used (kg)	Quantity of paddy produced (tones)	Quantity of paddy sold (tones)	Quantity of paddy milled (tones)	Quantity of milled rice sold

Destination codes: 1 = for family consumption only, 2 =family consumption and sale, 3 =sales only, 4=other (specify)

Normalization: Equivalent weight of one bag: ----- kg; Equivalent weight of the local unit (name.....) -----kg

8.2. Give the name of your three (3) best varieties (in order of preference):

- 1.....
- 2.....
- 3.....

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MODULE 2: Water Management, IRRIGATION/DRAINAGE
(only for farmers with irrigated plots or lowland field)

1. Mode of irrigation

Mode of irrigation (Code 1)	Period of payment (code 2)	Irrigation cost (dal)

Code1: 1=Collective pump, 2= Individual pump, 3=Pumping station, 4=Tidal irrigation,

Code 2: 1=Annual, 2= Per season

2. Timing of irrigation and drainage operations

Operation	Date	Reasons (land preparation, seeding, fertilizer application, weeding, ect.)
Irrigation		
Drainage		

3. How far is the irrigation source?

☐ Less than 50 m ☐ 50 – 100 m ☐ 100 – 150 m ☐ 150 – 200 m ☐ More than 200 m

4. Which organization is managing the water for irrigation? []

Codes: 1=farmer association, 2=NGO, 3= government public service, 4=Private Sector,
5=Other (specify)

5. How water is distributed?

☐ By turn ☐ on request ☐ both

6. Is there any conflict for the irrigation water management?

☐ YES, ☐ No

6.1.If yes, which ones?.....
.....
.....

7. Is there any constraint for water availability?

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☐ YES, ☐ No

7.1. If yes, which ones? [] [] []

Codes: 1. Increasing weed pression (typha...), 2. Decrepit facilities, 3. Siltation,
4. Other (specify):.....

8. Have you ever noticed any agronomics problems caused by irrigation water used?
☐ Yes ☐ No

☐ If yes list them?.....
.....

Module 3 : RICE FARM DATA

Plot status

Surname and names of the investigator: Date of investigation: Surname and names of person in charge of rice farm: <i>N° of farm</i> Position held in the household: [] (1= head of the household, 2= wife of the head of the household, 3= son, daughter, nephew, 4= other (specify) Sex [] 1 = male, 2=female [] 1 = male, 2=female
--

NB: The person in charge of the farm is the person that selects the varieties or plot (interview the person that can provide information)

1: Information on variety use

Variety name and code	Distinctive signs compared with others	Seeding period (day/hours)	Seeding months	Seeding week(s) number(s)	Week day(s) number(s)	Variety seeding chronological number

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Variety:..... Code :.....						
Variety:..... Code :.....						
Variety:..... Code :.....						
Variety:..... Code :.....						
Variety:..... Code :.....						

2. Varieties abandoned or lost

Name of the variety	Abandoned=1 Lost=2	Where 1, reason	Lifetime of abandoned varieties	First Year of Growing	Date on which the variety was abandoned	Where 2, would you like to have it again Yes=1, No=2	Why?	Are you able to have as much seeds as you want? 1=Yes 2=No	If no, which maximum quantity do you think you can get?

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3. INPUT AND WEEDING

	Production System	Number of weedings	Weeding times (in hours)	Name of fertilizer used	Quantity of fertilizer used (kg)	Cost of the fertilizer used (Local Currency.....)	Name of herbicides used	Quantity of herbicides used (specify unit)	Cost of the herbicide used (Local Currency.....)	Other product used	Quantity of the product	Cost of the product (FCFA)
Variety:.....			1 st									
			2 nd									
Code:.....			3 rd									
Variety:.....			1 st									
			2 nd									
Code:.....			3 rd									
Variety:.....			1 st									
			2 nd									
Code:.....			3 rd									
Variety:.....			1 st									
			2 nd									
Code:.....			3 rd									
Variety:.....			1 st									
			2 nd									
Code:.....			3 rd									

NB: For an estimation of weeding time, discuss with household members who supervised weeding activities. Where the exercise occurred over several days, discussion must help work out a time estimate in hours

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4. Rice cropping activities: Use of labor

	Household Members involvement in Agricultural Activities				Non Household Members involvement in Agricultural Activities			
	Number of adult men aged 15 and over involved in the work	Number of adult women aged 15 and over involved in the work	Number of children under 15 involved in the work	Age of the youngest child involved in the work	Number of laborers (from outside the household)	Total working duration (in days)	Number of individuals involved	Total working duration (in days)
Clearing								
Slash and burn								
Burning and residue spreading								
ploughing								
Seeding/transplanting								
Seeding Guarding								
First weeding								
Second weeding								
Third weeding								
Fertilizers Application								
Herbicide Application								
Bird Scaring								
Harvest								

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Threshing								
Drying								
Transport								
Other (specify)								

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5. Rice Plots History

	Previous Cropping System (see crop code)			Duration of Fallow period	Crops associated (crops mixed on the same plot)			Number of Rice crop cycles on the plot during the year	Number of crops in rotation with rice in the same year on the plot		
	2008	2007	2006		Crop 1 (coded)	Crop 2 (coded)	Crop 3 (coded)				
Variety:..... Code:.....											
Variety:..... Code:.....											
Variety:..... Code:.....											
Variety:..... Code:.....											
Variety:..... Code:.....											

Crop Code: 1=rice, 2=maize, 3=millet, 4=Sorghum, 5=cassava, 6=peanut, 7=fonio, 9=cocoa, 10=coffee, 11=Coconut tree, 12=Palm oil tree, 13=colanut tree, 14=Tomato, 15=eggplant, 16=pepper, 17=onion, 18=potato, 19=plantain, 20=banana, 21=cocoyam/macabo, 22=cowpea/beans, 23=orange tree, 24=mango tree, 25=pea tree, 23=other (specify)

Module 4: Access to New Technologies for Communication (radio, TV) and Mobile phones

1. Access to information by Radio or Television (TV)

1.1. Do you listen to radio? [] 1=Yes, 2= No

1.1.1. If no why? []

Code for “ Not listening to Radio”: 1=no radio; 2= no interest, 3= other (specify)

1.2. Do you listen to Television? [] 1=Yes, 2= No

1.2.1. If no why? []

Code for “ Not listening to TV”: 1=no radio; 2= no interest, 3= other (specify)

1.3. How many radio / TV do you have in your house? Radio [] TV []

1.4. Who owns the radio / TV you listen to / watch? Radio: [] TV: []

1=Husband; 2=Wife, 3=Children, 4= other (specify)

1.5. What are the best moments to listen to the radio / watch TV per social category in your house? Code: 1=Morning, 2=Midday, 3=Evening, 4=Night

1.5.1. Radio: Adult Women []; Adult Men []; Boys []; Girls [].

1.5.2. TV: Adult Women []; Adult Men []; Boys []; Girls [].

1.6. Who controls (i.e. decides when to switch on and off) the radio you listen to/ TV you watch ? Radio: [], Code: 1= Free, 2= Wife, 3= husband; 4= Children (boys); 5=Children (girls)

TV: [], Code: 1= Free, 2= Wife, 3= husband; 4= Children (boys); 5= Children (girls)

1.7. Where do you prefer: 1) listening to radio? []; 2) Watch TV? []

1= At home, 2= on farm, 3= with friends, 4=church / mosque; public house; 5= other (please specify):

1.8. Which radio station do the members of your household listen to the most?

1.8.1. Adult Women (> 18 years old): _____

1.8.2. Adult Men (> 18 years old): _____

1.8.3. For boys (< 18 years old): _____

1.8.4. For girls (< 18 years old): _____

1.9. Do you or another member of your household often communicate with the radio station to seek for some information?

Codes: 1= Yes, 2= No

Adult Women []; Adult Men []; Boys []; Girls [].

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1.9.1. if yes , how (by the mean of what)?

Adult Women []; Adult Men []; Boys []; Girls [].

1=Phone, 2=Mail, 3= visit to the radio station, 4=Other (Specify).....

2.0. Do you receive any feedback from radio? [] 1=Yes, 2= No

2. Programme of Radio and Video on Rice Farming

2.1. Have you ever listened to radio programs on rice? [] 1= Yes, 2= No

2.1.1. If yes, Specify main content:.....

2.2. Have you acquired some knowledge from listening to these programs?

[] 1= Yes, 2= No

2.2.1. If yes, have you applied this knowledge? [] 1= Yes, 2= No

2.3. Have you ever watched a video show on rice? [] 1= Yes, 2= No

2.4. What will be the best moment during the day to organize video shows in your community/village? Codes: 1=Morning; 2=Midi; 3=Afternoon; 4=Evening

Adult Women []; Adult Men []; Boys []; Girls [].

2.5. Would there be any reasons why women would not take part in a video show dealing with agricultural technologies?

[] 1= Yes, 2= No

2.5.1 If yes, specify: []; []; []

**Code : 1=Household chores; 2=Time conflict with a particular TV show;
Time conflict with agricultural field operation.**

3. Access to Mobile Phone

3.1 Do you have a mobile?

[] 1= yes, 2= No, 3= do not know mobile phone

3.1.1 If yes,

a) Which mobile phone company do you use most of the time to make phone calls?

3.1.2 If not,

a) Why ? []; []; [].

1) I do not have the means to buy a mobile []; 2) It is too expensive [];

3) I do not need one []; 4) There is no network coverage in my village [];

5) Other (specify) [].....;

b) Have ever used a mobile phone :

i) to call? [] 1= yes, 2= No

ii) to receive a call ? [] 1= Yes, 2= No

c) Do you have the intention to buy a mobile phone in the near future ? [] 1= Yes, 2= No

3.2. Does somebody in your household have a mobile phone? [] Yes; [] No.

3.2.1. If yes,

a) how many people in your household have a mobile phone?

Spouse []; Other adult women []; Other adult men []; Boys []; Girls []

b) Do you have access to the mobile phone of this (these) person (s) in your compound to place a phone call? [] 1= Yes, 2= No

c) If not, what is the nearest place where you can get access to a mobile phone? (please indicate the distance from your household)

3.2 Please, kindly enlist all GSM network / companies that you know and which operate in the country. Kindly, indicate the quality of each network / company (signal, congestion, etc...) in your village. Name of Network / Company Quality of signal (please see codes below)

- 1.
- 2.
- 3.
- 4.
- 5.

Code quality of network signal :

0= no coverage,

1=coverage, but due to a bad signal quality, one cannot make / receive call.

2=Low Signal; can make/ receive call but bad communication.

3= Good signal quality but sometimes the network is congested / communications sometimes interrupted.

4= Signal is very good, network rarely congested and less interruptions in the communications.