Rice Monitoring Survey in Bangladesh 2016

I. Front Page

Enumerator: Before the interview, enter the following basic information about the respondent.

Q.1 Enumerator ID: *(see code)* _____
Q.2 Division: *(see code)* _____
Q.3 District: *(see code)* _____
Q.4 Thana: *(see code)* _____
Q.5 Village Name: *(see code)* _____
Q.6 if this is a replacement village? *(1)Yes,(2)No* _____
Q.7 If yes, please enter the village name. _____
Q.8 Household ID from the 50 household name list _____
Q.9 Name of the farmer as given in the farmer list? _____
Q.10 Is the primary individual responsible for the management of rice production available to be interviewed at this time? *(1)Yes,(2)No* _____
Q.11 (Current) Respondent name _____

Thank you for the opportunity to speak with you. We are a research team from the International Rice Research Institute (IRRI) and conducting a survey to learn about rice production among the households in this area. Your household has been randomly selected to participate in an interview that will take an approximate of 45 minutes. Your participation is voluntary and all answers will be confidential.

Do you have any questions about the survey or what I have said?

Q.12 Do you agree to have this interview?
End the interview if the respondent does not agree with have the interview. *(1)Yes,(2)No* _____

Begin the interview.

Q.13 Interview Starting Time _____

Q.14 Did your household plant rice in the last 12 months? _____

Q.15 Religion: *(1) Muslim, (2) Hindu, (3) Christian, (4) Buddhist, (90) Others* _____

Q.16 Please provide us a contact number (mobile phone) _____

Have you completed this page? Click Close at the right-bottom corner of this page to get out of the page.

II. GPS coordinates

Table 2.1 GPS coordinates

Reading	Q.1 Latitude (north-south)	Q.2 Longitude (east-west)	Q.3 Accuracy (less than 7)
First reading			
Second reading			

Latitude: 20.000-27.000
Longitude: 86.000-95.000

III. MEMBER ROSTER

Q.1 How many household members (those who share food at home plus migrants)? _____

Q.2 How many of them are under 5 years old? _____

Total households (above 5 years old)=Q1-Q2

Table 3.1 Roster

List all household members above 5 years old and should be equal to the calculated total households (above 5 years old)

ID	Q.3 Name	Q.4 (Main) respondent?	Q.5 Gender **Pull-down See Code below**	Q6. Age	Q.7 Relationship to the household head **Pull-down See Code below**	Q.8 Education level Year of schooling **Pull-down See Code below**	Q.9 Is this person exposed to arsenic contamination? Yes=1 No=2	Q.10 If Q11=Yes (1), was this person affected? Yes=1 No=2	Q.11 If Q10=Yes (1), what are the effects to this person? **Pull-down See Code below**	Q.12 If Q10=Severely affected (8), what are the visible symptoms? **Pull-down See Code below**	Q.13 To whom did this person seek help for the treatment? **Pull-down See Code below**
1											
2											
N											

Code (Q5) Gender: *(1)Male,(2)Female*

Code (Q7) Relationship to household head: *(0)Self (householdhead),(1)Spouse,(2)Child,(3)Parent,(4)Grandchild,(5)Relative,(6)HouseHelper,(7)Sister/Brother, include in-law sister/brother, (8)daughter/son in law, and (90)Others*

Code (Q8) Educational level: *0)No schooling, (1)Grade 1, (2)Grade 2, (3)Grade 3, (4)Grade 4, (5)Grade 5, (6)Grade 6 (Middle),(7)Grade 7(Middle), (8)Grade 8 (Middle), (9)Grade 9 (High), (10) Grade 10 (High), (11) Grade 1(Intermediate), (12) Grade 12 (Intermediate), (13) Grade 13 (Graduate), (14) Grade 14 (Graduate), (15) Grade 15 (Post Graduate), (16) Grade 16 (Post Graduate), (17) Mphil (18)PHD, and (90) Others*

Code (Q11) Effects of arsenic exposure: *(1) Vomiting, (2) Diarrhea, (3) Blood in the urine,(4) Vomiting blood, (5) Hair loss, (6) Stomach pain, (7) Cramping, (8) Severe affected, (9) Visible symptoms, and (90) Others*

Code (Q12) Visible effects of arsenic exposure: *(1) Pigmentation of the skin changes, (2) Skin lesions, (3) Hard patches on the palms and soles of the skin, and (90) Others*

Code (Q13) Treatment provider*: (1) Public hospitals, (2) Private hospitals, (3) Private doctor (individual), (4) Village clinic, (5), NGO's, and (90) Others*

IV. PRODUCTION

1. A plot is defined as a contiguous piece of land with (semi-) fixed boundary under the same tenure. Even if the farmer grows more than one crop or rice variety, we call it one plot, as long as it's a contiguous piece of land in one location.
2. Assign a name on each plot so that the respondent can identify the plot by the names even after some years. Both owned-but-uncultivated plots and rented-in or borrowed-in plots by the household should be included in the list.
3. List plots by the plot size, starting from the largest.
4. Draw a map or have a farmer draw a map to clearly identify all plots.

NOTE: ALL QUESTIONS ARE FOR 2015-2016 CROPPING SEASON

Q.1 How much land do you own in the unit specified in the next question? _____
Q.2 Unit of Land? *(1000) ha, (405) Acre (2.471 Acre= 1 ha), (132) Bigha (1 bigha=33 decimal), (4) Decimal (100 Decimal=1 Acre) (90) Other* _____
Q.3 How many units (specified in Q2) is equal to 1 acre? _____
Q.4 How much land have you borrowed/rented in? (Unit specified in Q5)? _____
Q.5 Unit of Land? *(1000) ha, (405) Acre (2.471 Acre= 1 ha), (132) Bigha (1 bigha=33 decimal), (4) Decimal (100 Decimal=1 Acre) (90) Other* _____
Q.6 How many separate plots of land do you own? _____
Q.7 How many plots have to borrowed/rent in for cultivation? _____

Table 4.1 Plot information

NOTE: Please make sure that the information for all the plots owned and borrowed (entered in Q1 and Q4 above) should be entered below.

ID	Q.8 Plot Name	Q.9 Unit of Plot Size **Pull-down See Code below**	Q.10 Plot size in the unit specified in Q2	Q.11 How many unit (specified in Q2) is equal to 1 acre?	Plot size Calculate: (unit plot * plot size/1000)	Q.12 What is the tenure status of this plot **Pull-down See Code below**	Q.13 Land type (Topology) **Pull-down See Code below**	Q.14 Was this plot irrigated from any tube well at any point in time during the past 10 years? Yes=1 No=2	Q.15 If Q14=yes, was the tube well water tested for Arsenic? Yes=1 No=2	Q.16 If Q15=Yes, was it contaminated? Yes=1 No=2	Q.17. Was the tube well marked by the government Yes=1 No=2	Q.18 If Q17=Yes, what was the color Red=1 Green=2
1												
2												
3												
N												

Code (Q9) Unit plot: (1000) ha, (405) Acre (2.471 Acre= 1 ha), (132) Bigha (1 bigha=33 decimal), (4) Decimal (100 Decimal=1 Acre) (90) Other

Code (Q12): Tenure: 1)Own, (2)Rented-in, (3) Rented-out, (4)Public land, and (90) Other

Code (Q13): Land type: (1)Lowland, (2) Medium Land, and (3)Upland

Table 4.2 Crop production

ID	Plot name	Q.19 Did you cultivate this plot during Aus 2015? **Pull-down See Code below**	Q.20 If rented in, how much did you pay as rent in this season (in Taka)?	Production in Aus 2015 If Q17=1-3, proceed Table 4.2.1	Q.21 Did you cultivate this plot during Aman 2015? **Pull-down See Code below**	Q.22 If rented in, how much did you pay as rent in this season (in Taka)?	Production in Aman 2015 If Q18 =1-3, proceed Table 4.2.2	Q.23 Did you cultivate this plot during Boro 2015-16? **Pull-down See Code below**	Q.24 If rented in, how much did you pay as rent in this season (in Taka)?	Production in Boro 2015-2016 If Q19 =1-3, proceed Table 4.2.3

Code (Q18, 19, 21) Land use: (1) Self-cultivated crops, (2) Rented-in at Fixed Rate, (3) Rented-in Sharecropping, (4) Rented-out at Fixed Rate, (5) Rented-out Sharecropping (6) Fallow, and (90) Other (specify).

Table 4.2.1 Production in Aus 2015

Plot Name [Select current.plot_name]

List all crops or rice varieties that are grown on this plot.

Table 4.2.1.1 Crop production in Aus 2015 (Pop-up window) If Q17=Yes (1-3) in Table 4.2

ID	Q.1 Which crop did you grow in Aus 2015? **Pull-down See Code below**	Q.2 If Q1=Rice (1), what is the name of the rice variety? **Pull-down See Code below**	Q.3 If Q2=90 (not coded), write the variety name?	Q.4 If this hybrid, please write the name of the variety.	Q.5 Variety type? **Pull-down See Code below**	Q.6 Proportion (0-1) of the area of the plot under this crop or rice variety.	Q.7 Unit of crop production? **Pull-down See Code below**	Q.8 Total production in the unit specified in Q6.	Q.9 What is the supplement irrigation source? **Pull-down See Code below**	Q.10 How many times did you irrigate the plot?	Total production in kg Calculate: Q6*Q7	Rough yield in kgs/ha Calculate: (Q6*Q7) /(Q5*unit plot*plot size)100	Q.11 Ask reasons if yield is less than 300 or more than 10,000put NA if not extreme values
1													
2													
3													

Code (Q1) Crops: (1) Rice, (2) Maize, (3) Wheat, (4) Sugar cane, (5) Potato, (6) Pigeon pea, (7) Pulses, (8) Mustard, (9) Fodder, (10) Jute, (11) Vegetable, (89)Fallow, and (90) Other (specify)

Code (Q2) Rice variety: (1-590) rice varieties and (999) Others

Code (Q4) Variety type: (1)Traditional, (2)Hybrid, (3)High yielding variety (HYV), (4) Submergence tolerant, (5) Drought tolerant, (6) Salinity tolerant, (7) Dont know, and (90)Others

Code (Q6) Unit of production: (1) 1kgs, (40) 40 kgs bag (mann), (50) 50 kgs bag, (60) 60 kgs bag, (75) 75 kgs bag, (80) 80 kgs bag, (100) 100 kgs bag

Code (Q8) Supplemental irrigation: (0) no irrigation (rainfed), (1) Electric Shallow Tube Well, (2) Electric Deep Tube Well, (3) Diesel Shallow Tube Well,(4) Diesel Deep Tube Well, (5) Canal, (6)Pond/River, (7) Lift Irrigation, (8) Solar, and (90)Others

Total proportion of area: Sum of Q6
The sum of the proportions of the plot area under crops and rice varieties should be 1.

Note: In case of zero production, choose "not applicable" in Harvesting date and Harvesting month.

Table 4.2.1.2 Rice varieties in Aus 2015 (If Q2=Rice (1) in Table 4.2.1.1)

Crop ID	Variety name	Unlisted variety name (if Q2=999)	Hybrid rice variety (if Q2=110)	Q.12 What was the planting method for rice? **Pull-down See Code below**	Q.13 Planting month for Seeding **Pull-down See Code below**	Q.14 Planting date for Seeding **Pull-down See Code below**	Q.15 Planting month for Transplanting **Pull-down See Code below**	Q.16 Planting date for Transplanting **Pull-down See Code below**	Q.17 Harvesting month **Pull-down See Code below**	Q.18 Harvesting Date **Pull-down See Code below**	Q.19 Did this plot experienced stress during Aus 2015? (tick if yes)	Stress in Aus 2015 If yes, proceed to 4.2.1.2.1
1												
2												
3												
N												

Code (Q11) Planting method: (1) Transplanting, (2) Broadcasting, (3) Direct line seeding, (4) Mechanical transplanter, (90) others
Code (Q12,Q14, Q16) Month: (1-12) January-December, (13) Not applicable
Code (Q13, Q15, Q17) Date 1-31, (32) Not applicable

4.2.1.2.1 Stress questions for Aus 2015 T**able 4.2.1.2**

Please ask if farmers suffered from different stresses that occurred during 2015 Aus season.

Q.1 Was the rice variety flooded any time during Aus 2015? *(1)Yes,(2)No (if no, proceed to Q5)* _____

Q.2 How many times did it suffered from from submergence during Aus 2015? _____

Q.3 At which rice growing stage did the submergence occur?

(0)Nursery stage,(1)Vegetative stage,(3)Tillering (20-35 days),(4)Panicle Initiation (35-55days), (5)Heading-Flowering (56-70 days),(6)Maturing stage (71 days or after),(90)Other (specify) _____

Q.4 What percentage (%) of the plot was flooded? _____

Q.5 How many days the crop was completely submerged? _____

Q.6 What percentage (%) of crop was damaged? _____

Salinity _____

Q.7 Did this rice variety suffer from salinity during Aus 2015 season? *(1)Yes,(2)No* _____

Q.8 What percentage (%) of crop was damaged due to salinity? _____

Drought _____

Q.9 Did this rice variety suffer from drought during Aus 2015 season? *(1)Yes,(2)No (If no, proceed to Q10)* _____

Q.10 At which rice growing stage did the most severe drought occur?

(0)Nursery stage,(1)Vegetative stage,(3)Tillering (20-35 days),(4)Panicle Initiation (35-55 days), (5)Heading-Flowering (56-70 days),(6)Maturing stage (71 days or after),(90)Other (specify) _____

Q.9 How many days did the most severe drought continue? _____

Q.10 What percentage (%) of the crop production was damaged? _____

Cyclone _____

Q.11 Did this rice variety suffer from cyclone/storm during Aus 2015 season? *(1)Yes,(2)No* _____

Table 4.2.2 Production in Aman 2015
Plot Name [Select current.plot_name]

List all crops or rice varieties that are grown on this plot.

Table 4.2.2.1 Crop production in Aman 2015 (Pop-up window) If Q19=Yes (1-3) in Table 4.2

ID	Q.1 Which crop did you grow in Aman 2015? **Pull-down See Code below**	Q.2 If Q1=Rice (1), what is the name of the rice variety? **Pull-down See Code below**	Q.3 If Q2=90 (not coded), write the variety name?	Q.4 If this hybrid, please write the name of the variety.	Q.5 Variety type? **Pull-down See Code below**	Q.6 Proportion (0-1) of the area of the plot under this crop or rice variety.	Q.7 Unit of crop production? **Pull-down See Code below**	Q.8 Total production in the unit specified in Q6.	Q.9 What is the supplement irrigation source? **Pull-down See Code below**	Q.10 How many times did you irrigate the plot?	Total production in kg Calculate: Q6*Q7	Rough yield in kgs/ha Calculate: (Q6*Q7) /(Q5*unit plot*plot size)100	Q.11 Ask reasons if yield is less than 300 or more than 10,000put NA if not extreme values
1													
2													
3													

Code (Q1) Crops: (1) Rice, (2) Maize, (3) Wheat, (4) Sugar cane, (5) Potato, (6) Pigeon pea, (7) Pulses, (8) Mustard, (9) Fodder, (10) Jute, (11) Vegetable, (89)Fallow, and (90) Other (specify)
Code (Q2) Rice variety: (1-590) rice varieties and (999) Others
Code (Q4) Variety type: (1)Traditional, (2)Hybrid, (3)High yielding variety (HYV), (4) Submergence tolerant, (5) Drought tolerant, (6) Salinity tolerant, (7) Dont know, and (90)Others
Code (Q6) Unit of production: (1) 1kgs, (40) 40 kgs bag (mann), (50) 50 kgs bag, (60) 60 kgs bag, (75) 75 kgs bag, (80) 80 kgs bag, (100) 100 kgs bag
Code (Q8) Supplemental irrigation: (0) no irrigation (rainfed), (1) Electric Shallow Tube Well, (2) Electric Deep Tube Well, (3) Diesel Shallow Tube Well,(4) Diesel Deep Tube Well, (5) Canal, (6)Pond/River, (7) Lift Irrigation, (8) Solar, and (90)Others

Total proportion of area: Sum of Q6
The sum of the proportions of the plot area under crops and rice varieties should be 1.

Table 4.2.2.2 Rice varieties in Aman 2015 (If Q2=Rice (1) in Table 4.2.2.1)

Note: In case of zero production, choose "not applicable" in Harvesting date and Harvesting month.

Crop ID	Variety name	Unlisted variety name (if Q2=999)	Hybrid rice variety (if Q2=110)	Q.12 What was the planting method for rice? **Pull-down See Code below**	Q.13 Planting month for Seeding **Pull-down See Code below**	Q.14 Planting date for Seeding **Pull-down See Code below**	Q.15 Planting month for Transplanting **Pull-down See Code below**	Q.16 Planting date for Transplanting **Pull-down See Code below**	Q.17 Harvesting month **Pull-down See Code below**	Q.18 Harvesting Date **Pull-down See Code below**	Q.19 Did this plot experienced stress during Boro 2015-2016? (tick if yes)	Stress in Boro 2015-2016 If rice, proceed to 4.2.2.2.1	Q.20 Is this the largest plot? (1) Yes (2) No If Q20=Yes, Proceed to the next sections	Inputs used during Aman 2015 Proceed to Table 4.2.2.2.2.1	Irrigation and machine used during Aman 2015 Proceed to Table 4.2.2.2.3.1	Labor used in rice production during Aman 2015 Proceed to Table 4.2.2.2.4.1
1																
2																
3																

Code (Q11) Planting method: (1) Transplanting, (2) Broadcasting, (3) Direct line seeding, (4) Mechanical transplanter, (90) others

Code (Q12,Q14, Q16) Month: (1-12) January-December, (13) Not applicable

Code (Q13, Q15, Q17) Date 1-31, (32) Not applicable

4.2.2.2.1 Stress questions for Aman 2015 Table 4.2.2.2

Please ask if farmers suffered from different stresses that occurred during Boro 2015-2016 season.

Q.1 Was the rice variety flooded any time during Boro 2015-2016? *(1)Yes,(2)No (if no, proceed to Q5)* _____

Q.2 How many times did it suffered from from submergence during Boro 2015-2016? _____

Q.3 At which rice growing stage did the submergence occur?

(0)Nursery stage,(1)Vegetative stage,(3)Tillering (20-35 days),(4)Panicle Initiation (35-55days), (5)Heading-Flowering (56-70 days),(6)Maturing stage (71 days or after),(90)Other (specify) _____

Q.4 What percentage (%) of the plot was flooded? _____

Q.5 How many days the crop was completely submerged? _____

Q.6 What percentage (%) of crop was damaged? _____

Salinity _____

Q.7 Did this rice variety suffer from salinity during Boro 2015-2016 season? *(1)Yes,(2)No* _____

Q.8 What percentage (%) of crop was damaged due to salinity? _____

Drought _____

Q.9 Did this rice variety suffer from drought during Boro 2015-2016 season? *(1)Yes,(2)No (If no, proceed to Q10)* _____

Q.10 At which rice growing stage did the most severe drought occur?

(0)Nursery stage,(1)Vegetative stage,(3)Tillering (20-35 days),(4)Panicle Initiation (35-55 days), (5)Heading-Flowering (56-70 days),(6)Maturing stage (71 days or after),(90)Other (specify) _____

Q.9 How many days did the most severe drought continue? _____

Q.10 What percentage (%) of the crop production was damaged? _____

Cyclone/storm _____

Q.11 Did this rice variety suffer from cyclone/storm during Boro 2015-2016 season? *(1)Yes,(2)No* _____

4.2.2.2.2 Inputs used in Aman 2015 *(Pop-up window appears if it is the largest plot in Q1 in Table 4.2.2 Crop* Aman 2015*)*

Table 4.2.2.2.2.1 Input use list (Aman2015)

Input ID	Input list	Q.1 Did you use this input? (1)Yes (2)No	Q.2 What was the quantity of this input applied? (use unit specified in Q3)	Q.3 Unit **Pull-down See Code below**	Q.4 Did you purchase this input? (1)Yes (2)No	Q.5 How much (on average) did you buy? (use unit specified in Q6)	Q.6 Unit **Pull-down See Code below**	Q.7 Price (Taka/kg)	Total value of input purchased Calculate: Q6*Q7	Q.8 Was the input available on time? (1)Yes (2)No	Q.9 From whom did you buy? **Pull-down See Code below**
1	Seed/Seedling										
2	Urea										
3	DAP										
4	Potash (MOP)										
5	NPK brands										
6	Compost										
7	Herbicide										
8	Pesticide (powder)										
9	Pesticide (liquid)										
10	Insecticide										
11	Cow dung										

Code (Q3 and Q6): Unit: (1) Kilogram, (2) Liter, (3) gram, (4) Milliliters, (5) Tractors, (6) Bullock carts, (7) Numbers, (8) Bunches, and (90) Other (specify)
Code (Q9): Source: (1)Agro retailers / dealers (shops), (2)Private seed companies,(3)Weekly markets / mandies,(4)Sales persons (traveling), and (90)Other (specify)

Table 4.2.2.2.2.2 Irrigation and Machine hire Costs (Aman2015)

Machine Activity ID	Activity	Q.1 Did you use animals for this activity? (1) Yes (2) No	Q.2 Did you hire animals for this activity? (1) Yes (2) No	Q.3 If Q2=Yes, how much did you pay in total (in Taka) for hiring animals?	Q.4 Did you use machines on this activity? (1) Yes (2) No (Skip to next activity)	Q.5 If Q4=Yes, which machine did you use? **Pull-down See Code below**	Q.6 If Q4=Yes, did you hire the machine? (1) Yes (2) No (Skip to Q8)	Q.7 If Q6=Yes, how much did you pay in total (in Taka) for hiring machines (including costs of operators and fuels)?	Q.8 If used own machines, how much did you pay for fuels?
1	Land preparation								
2	Irrigation (all combined)								
3	Transplanting / seeding								
4	Gap filling								
5	Weeding								
6	Pesticide application								
7	Harvesting								
8	Threshing								
9	Drying								
10	Transporting								

Code (Q5) Machine: (1) 4-wheel tractor, (2) 2-wheel tractor, (3) Transplanter, (4) Seeders, (5) Sprayer, (6) Combine harvester, (7) Thresher (paddle), (8) Thresher (machine), (9) Diesel pumps, (10) Electric pumps, (90) Other (specify)

Table 4.2.2.2.2.3 Labor used in rice production (Aman2015)

Labor ID	Labor activity	Q.1 Have you done this activity? (1) Yes (2) No If yes, proceed to Q2-Q15	Q.2 Total number of family male labor	Q.3 Total number of DAYS that family male worker participated in this activity?	Q.4 Total number of HOURS that family male workers participated in this activity?	Q.5 Total number of family female	Q.6 Total number of DAYS that family female worker participated in this activity?	Q.7 Total number of HOURS that family female workers participated in this activity?	Q.8 Total number of hired male labor	Q.9 Total number of DAYS of hired male worker participated in this activity?	Q.10 Total number of HOURS that hired male workers participated in this activity?	Q.11 Male daily wage	Q.12 Total number of hired female labor	Q.13 Total number of DAYS that hired female worker participated in this activity?	Q.14 Total number of HOURS that hired female workers participated in this activity?	Q.15 Female daily wage
1	Land preparation															
2	Nursery preparation															
3	Transplanting/planting															
4	Weeding															
5	Application of chemical/organic fertilizer															
6	Application of pesticide															
7	Irrigation															
8	Harvesting															
9	Bundling															
10	Threshing															
11	Drying															
12	Transporting (produce from field market)															

Table 4.2.3 Production in Boro 2015-2016

Plot Name [Select current.plot_name]

List all crops or rice varieties that are grown on this plot.

Table 4.2.3.1 Crop production in Boro 2015-2016 (Pop-up window) If Q21=Yes (1-3) in Table 4.2

ID	Q.1 Which crop did you grow in Boro 2015-2016? **Pull-down See Code below**	Q.2 If Q1=Rice (1), what is the name of the rice variety? **Pull-down See Code below**	Q.3 If Q2=90 (not coded), write the variety name?	Q.4 If Q2=hybrid, please write the name of the variety.	Q.5 Variety type? **Pull-down See Code below**	Q.6 Proportion (0-1) of the area of the plot under this crop or rice variety.	Q.7 Unit of crop production? **Pull-down See Code below**	Q.8 Total production in the unit specified in Q6.	Q.9 What is the supplement irrigation source? **Pull-down See Code below**	Q.10 How many times did you irrigate the plot?	Total production in kg Calculate: Q6*Q7	Rough yield in kgs/ha Calculate: (Q6*Q7) /(Q5*unit plot*plot size)100	Q.11 Ask reasons if yield is less than 300 or more than 10,000put NA if not extreme values
1													
2													
3													

Code (Q1) Crops: (1) Rice, (2) Maize, (3) Wheat, (4) Sugar cane, (5) Potato, (6) Pigeon pea, (7) Pulses, (8) Mustard, (9) Fodder, (10) Jute, (11) Vegetable, (89)Fallow, and (90) Other (specify)

Code (Q2) Rice variety: (1-590) rice varieties and (999) Others

Code (Q4) Variety type: (1)Traditional, (2)Hybrid, (3)High yielding variety (HYV), (4) Submergence tolerant, (5) Drought tolerant, (6) Salinity tolerant, (7) Dont know, and (90)Others

Code (Q6) Unit of production: (1) 1kgs, (40) 40 kgs bag (mann), (50) 50 kgs bag, (60) 60 kgs bag, (75) 75 kgs bag, (80) 80 kgs bag, (100) 100 kgs bag

Code (Q8) Supplemental irrigation: (0) no irrigation (rainfed), (1) Electric Shallow Tube Well, (2) Electric Deep Tube Well, (3) Diesel Shallow Tube Well,(4) Diesel Deep Tube Well, (5) Canal, (6)Pond/River, (7) Lift Irrigation, (8) Solar, and (90)Others

Total proportion of area: Sum of Q6

The sum of the proportions of the plot area under crops and rice varieties should be 1.

Table 4.2.3.2 Rice varieties in Boro 2015-2016

Note: In case of zero production, choose "not applicable" in Harvesting date and Harvesting month.

Crop ID	Variety name	Unlisted variety name (if Q2=999)	Hybrid rice variety (if Q2=110)	Q.11 What was the planting method for rice? **Pull-down See Code below**	Q.12 Planting month for Seeding **Pull-down See Code below**	Q.13 Planting date for Seeding **Pull-down See Code below**	Q.14 Planting month for Transplanting **Pull-down See Code below**	Q.15 Planting date for Transplanting **Pull-down See Code below**	Q.16 Harvesting month **Pull-down See Code below**	Q.17 Harvesting Date **Pull-down See Code below**	Q.18 Did this plot experienced stress during Boro 2015-2016? (tick if yes)	Stress in Boro 2015-2016 If rice, proceed to 4.2.3.2.1
1												
2												
3												

Code (Q11) Planting method: (1) Transplanting, (2) Broadcasting, (3) Direct line seeding, (4) Mechanical transplanter, (90) others

Code (Q12,Q14, Q16) Month: (1-12) January-December, (13) Not applicable

Code (Q13, Q15, Q17) Date 1-31, (32) Not applicable

4.2.3.2.1 Stress questions for Boro 2015-2016

Please ask if farmers suffered from different stresses that occurred during Boro 2015-2016 season.

Q.1 Was the rice variety flooded any time during Boro 2015-2016? *(1)Yes,(2)No (if no, proceed to Q5)* _____
Q.2 How many times did it suffered from from submergence during Boro 2015-2016? _____
Q.3 At which rice growing stage did the submergence occur?
(0)Nursery stage,(1)Vegetative stage,(3)Tillering (20-35 days),(4)Panicle Initiation (35-55days),
(5)Heading-Flowering (56-70 days),(6)Maturing stage (71 days or after),(90)Other (specify) _____
Q.4 What percentage (%) of the plot was flooded? _____
Q.5 How many days the crop was completely submerged? _____
Q.6 What percentage (%) of crop was damaged? _____
Salinity _____
Q.7 Did this rice variety suffer from salinity during Boro 2015-2016 season? *(1)Yes,(2)No* _____
Q.8 What percentage (%) of crop was damaged due to salinity? _____
Drought _____
Q.9 Did this rice variety suffer from drought during Boro 2015-2016 season? *(1)Yes,(2)No (If no, proceed to Q10)* _____
Q.10 At which rice growing stage did the most severe drought occur?
(0)Nursery stage,(1)Vegetative stage,(3)Tillering (20-35 days),(4)Panicle Initiation (35-55 days),
(5)Heading-Flowering (56-70 days),(6)Maturing stage (71 days or after),(90)Other (specify) _____
Q.9 How many days did the most severe drought continue? _____
Q.10 What percentage (%) of the crop production was damaged? _____
Cyclone/storm _____
Q.11 Did this rice variety suffer from cyclone/storm during Boro 2015-2016 season? *(1)Yes,(2)No* _____

V. SEED EXCHANGE

Please make sure you to list of seed exchanges happened in 2015-2016 rice production

Table 5.1., 5.2, 5.3 for Aus 2015, Aman 2015, and Boro 2015-2016

ID	Variety Name	Q.1 Have you transferred this seed to others?	Q.2 If Q1=Yes (1), to how many farmers (total number)	Q.3 On an average, how many kgs of the seeds did you transfer?	Q.4 How did you transfer the seeds	Q.5 If exchanged for rice (Q4=1), how many kgs?	Q.6 If sold (Q5=3), at what price per kg?	Q.7 Where does this person live?
1								
2								
3								
n								

Code (Q4) Mode of seed transfer: (1)Exchanged for rice,(2)Given for free,(3)Sold,(4)Exchanged for other item,(90)Other (specify)
Code (Q7) Location of the person who were given seed: (1) House neighbor, (2) Plot neighbor (3) Person from the village but not neighbor, and (4)Outsider

Q.9 How far is your house to the nearest input dealer in km? _____
Q.10 How far is your house to the nearest (output) market in km? _____

VI. SEED MANAGEMENT PRACTICES

Q.1 Did you pre-select rice panicles while still on the field to be saved for seed use in the following season? _____
(1) Yes or (2) No

Q.2 Did you clean seeds collected for seed use by separating quality seeds with contaminants like weeds, deformed seeds, and discolored seeds) (*1) Yes or (2) No* _____

Q.3 Did you dry the seeds that will be used as seed in next season? 1) Yes or (2) No _____

Q.4 Did you store the seeds that will used as seed in the next season? (1) Yes or (2) No _____

Q.5 How did you store seeds that will be used seeds in the next season? _____
(1) Sacks/open drum, (2) Clay plots,(3) Wooden container,(4) air tight drums, (5) Unprotected piles, (6) IRRI super bag, (90)Other (specify) _____

Q.6 Which of the following seed management practices have you been doing for several years? _____
(1) Pre-selecting of seeds, (2) cleaning, (3) storing, (4) drying, and (90) others

VII. VARIETY AWARENESS

Enumerators: Many of the varieties listed below will might local names. If the farmer cannot recognize the name below tell him the local names and see if he can recognize the variety.

Table 7.1 Variety awareness

ID	Variety awareness	Q.1 Have you heard about this variety? (1)Yes,(2)No	Q.2 Have you ever cultivated this variety? (1)Yes,(2)No	Q.3 If used, in which year did you use it for the first time (Put 1900 if don't remember or don't know)?	Q.4 In which year did you use it for the last time? (Put 1900 if don't remember or don't know) (in case it was last used in 2015-2016 write 2015)	Q.5 Who in your household decided to plant this variety? (Enter Member Roster ID)
1	BINA dhan 8					
2	BINA dhan 10					
3	BINA dhan 11					
4	BINA dhan 12					
5	BRRI dhan 51					
6	BRRI dhan 52					
7	BRRI dhan 56					
8	IR64-Sub1					

VIII. ASSETS

Enumerators: You do not need to fill in the boxes if the respondent does not own particular asset items. Do not need to ask about assets that are not listed below.

Q.1 Access to Electricity: do you have access to electricity?(1)Yes,(2)No _____

Table 8.1 Assets

ID	List of assets	Q.2 Do you own this item? (1)Yes,(2)No	Q.3 How many do you own?	Q.4 What is the total re-sale value of this asset in Taka? (give an estimate for one asset)
1	Plough sets wooden			
2	Plough sets (iron attachment)			
3	Carts			
4	Shovel			
5	Hoe			
6	Pick-axe			
7	Tractors			
8	Duster			
9	Chaff Cutter			
10	Sprayer			
11	Diesel pump			
12	Pedal pump			
13	Land leveler			
14	Thresher			
15	Power tiller			
16	Irrigation tube well (private)			
17	Wheel barrow			
18	Trolley			
19	Bicycle			
20	Two wheeler (e.g. motorbike)			
21	Four wheeler (e.g. car or truck)			

22	Radio			
23	DVD players			
24	TV			
25	Mobile phones			
26	Gas stove			
27	Refrigerators			
28	Coolers			
29	Electric Fan			
30	Computers			
31	Sewing machine			
62	Gold jewelry			

IX. LIVESTOCK

Table 9.1 Animal list

ID	List of animals	Q.1 Do you own this animal? (1)Yes,(2)No	Q.2 How many of this animal do you own?	Q.3 What is the total re-sale value of this animal in Taka (give an estimate for one animal)?
1	Buffalo			
2	Cows			
3	Heifers/Calves			
4	Bullocks			
5	Goats			
6	Sheep			
7	Chicken			
8	Ducks			

X. END PAGE

Enumerator: Click "Validate Entire Interview" at the top of the screen under "File." Eliminate all remaining errors.

If you have eliminated all errors, click Get Time.

Enumerator: Please state the following note to the respondent: "Thank you very much for participating in our survey. We will use your information to draw policy recommendations that, we hope, will make lives of people in Bangladesh better. We hope that you will also help us in the future. Thank you."