

## Maize Crop Manager (Bangladesh) Beta Version

The farmer should answer the questions for their maize plot for the season they desire recommended management practices.

1. Where is the plot?

District: \_\_\_\_\_

Upazila: \_\_\_\_\_

Union: \_\_\_\_\_

Village: \_\_\_\_\_

2. How do you name the maize plot for identification? \_\_\_\_\_

A plot is one or more parcels with similar management, variety, and soil fertility.

3. What is the size of the plot?

\_\_\_\_\_ decimals = \_\_\_\_\_ m<sup>2</sup>

4. For which upcoming season do you need a recommendation?

☐ Rabi

☐ Kharif 1

### **SET A. If the upcoming maize crop is rabi:**

5. What is the position of your plot in the landscape?

☐ Higher lying area without flooding or sediment accumulation during the monsoon

☐ Lower lying area where water from heavy rainfall accumulates for less than 1 month during the monsoon

☐ Lower lying area that remains under water continuously for more than 1 month during the monsoon

☐ Charlands

6. When will you plant rabi maize?

Select a month:

☐ October (Mid Aushin - Mid Kartik)

☐ November (Mid Kartik - Mid Agrahayon)

☐ December (Mid Agrahayon - Mid Poush)

☐ January (Mid Poush - Mid Magh)

Select a week:

☐ First week

☐ Second week

☐ Third week

☐ Fourth week

7. Have you grown hybrid maize in your \_\_\_\_\_ decimal plot in the **rabi** season within the past two years?

☐ No

☐ Yes

If yes to number 7,

8. How much sun-dried, shelled hybrid maize do you typically harvest from your \_\_\_\_\_ decimal plot in the rabi season with the selected planting date in number 6?

Grain yield in maund (1 maund = 40 kg): \_\_\_\_\_

9. What is your planned spacing of maize seed between rows in the upcoming rabi?  
\_\_\_\_\_ cm

10. What is your planned spacing of maize seed in a row in the upcoming rabi?  
\_\_\_\_\_ cm

11. What crop was grown before the upcoming rabi maize crop?

☐ Early aman                      ☐ Fallow, no crop  
☐ Late aman                      ☐ Others

If other crop, please specify: \_\_\_\_\_

If aman rice was grown before maize,

12. What height of rice stems was left in your plot after harvest of aman rice?

☐ Less than 4 inches  
☐ 4 to 10 inches  
☐ More than 10 inches

13. Based on experience in past years, what do you anticipate for the upcoming rabi maize?

☐ No anticipated yield loss due to water shortage  
☐ With anticipated yield loss of 1 t/ha or more due to water shortage

14. Which best describes the soil in your plot?

☐ Sandy to loamy                      ☐ Clayey

15. Will you apply organic materials to your \_\_\_\_\_ decimal plot this upcoming rabi?

☐ No                      ☐ Yes

If yes to number 15,

Select the organic materials to be applied in your \_\_\_\_\_ decimal plot and indicate the total weight of organic materials in kg.

Organic material	Weight in kg
<input type="radio"/> Cow dung (decomposed)	_____
<input type="radio"/> Poultry manure	_____
<input type="radio"/> Vermicompost	_____
<input type="radio"/> Compost	_____
<input type="radio"/> Press mud	_____
<input type="radio"/> Ash from cooking stove	_____

16. Which P-containing fertilizer will you use this upcoming rabi?

☐ TSP (0-46-0)                      ☐ DAP (18-46-0)

**For the user of *Maize Crop Manager*:**

17. Did you answer the questions through an interview of a farmer who wants to receive a recommendation?  
☐ Yes  
☐ No, the recommendation will not be given to a farmer

**Additional questions for the user of *Maize Crop Manager* if yes to number 17:**

18. In your opinion, what is the landscape position of the farmer's plot?  
☐ Highland    ☐ Medium highland    ☐ Medium lowland    ☐ Lowland
19. Based on your experience, which of the following are typically recommended for rabi maize at the location of the farmer's plot? (Multiple selections allowed.)  
☐ Lime    ☐ Sulfur    ☐ Zinc    ☐ Boron

**Additional questions for the farmer if yes to number 17:**

20. What maize variety will you grow for the upcoming **rabi**? \_\_\_\_\_

**If aman rice is grown before rabi maize,**

21. How much **sun-dried, unmilled rice** do you typically harvest from your \_\_\_\_\_ decimal plot in aman?

Grain yield in maund (1 maund = 40 kg): \_\_\_\_\_

22. Have you, before this interview, received information on maize cultivation practices from an extension worker or input supplier?  
☐ No    ☐ Yes

**If yes to number 22,**

23. Select the following that provided you with information on maize cultivation practices. (Multiple selections allowed.)  
☐ Department of Agricultural Extension (DAE)  
☐ Non-governmental organization (NGO)  
☐ Seed supplier  
☐ Supplier of inputs other than seeds  
☐ Others  
If others, please specify: \_\_\_\_\_

**If yes to number 22,**

24. Did you find the information on maize cultivation sufficiently valuable that you used it?  
☐ Yes    ☐ No

### Information about the farmer

Given name: \_\_\_\_\_

Full name: \_\_\_\_\_

National ID number (optional): \_\_\_\_\_

Age: \_\_\_\_\_ Gender: ☐ Male ☐ Female

Mobile phone number (optional): \_\_\_\_\_

\*Entering your mobile phone number would enable you to receive SMS updates and advice during the season.

Email (optional): \_\_\_\_\_

CSISA project ID of farmer (optional): \_\_\_\_\_

What is your highest level of education and skills? (optional)

☐ No formal school, no reading, and no signing skills

☐ No formal school, no reading but signing skills

☐ No formal school, reading, and signing skills

☐ Primary

☐ Secondary

☐ University

What is your main occupation? (optional)

☐ Farming

☐ Non farming, professional (for example: telcom)

☐ Non farming, laborer

☐ Share cropper

☐ Business

### Information about the person operating *Maize Crop Manager*

Given name: \_\_\_\_\_

Full name: \_\_\_\_\_

Do you reside in Bangladesh?

☐ Yes

☐ No

If yes,

Gender: ☐ Male

☐ Female

Profession:

☐ Extension worker or agent

☐ Farmer

☐ Researcher

☐ Loan officer

☐ Fertilizer dealer

☐ Union Information and Service Centre (UISC) computer operator

☐ Private entrepreneur

☐ Others, please specify: \_\_\_\_\_

Mobile phone number (optional): \_\_\_\_\_

Email (optional): \_\_\_\_\_

**SET B. If upcoming maize crop will be grown in kharif 1:**

5. What is the position of your plot in the landscape?  
☐ Higher lying area without flooding or sediment accumulation during the monsoon  
☐ Lower lying area where water from heavy rainfall accumulates for less than 1 month during the monsoon

6. When will you plant kharif 1 maize?

Select a month:

- ☐ February (Mid Magh - Mid Falgun)  
☐ March (Mid Falgun - Mid Chaitra)

Select a week:

- ☐ First week      ☐ Second week      ☐ Third week      ☐ Fourth week

7. Have you grown hybrid maize in your \_\_\_\_\_ decimal plot in the **kharif 1** season within the past two years?  
☐ No      ☐ Yes

**If yes to number 7,**

8. How much **sun-dried, shelled hybrid maize** do you typically harvest from your \_\_\_\_\_ decimal plot in the rabi season with the **selected planting date in number 6**?

Grain yield in maund (1 maund = 40 kg): \_\_\_\_\_

9. What is your planned spacing of maize seed between rows in the upcoming **kharif 1**?  
\_\_\_\_\_ cm

10. What is your planned spacing of maize seed in a row in the upcoming **kharif 1**?  
\_\_\_\_\_ cm

11. What crop was grown before the upcoming kharif 1 maize crop?

- ☐ Potato      ☐ Mustard  
☐ Vegetable      ☐ Others

If other crop, please specify: \_\_\_\_\_

**If potato was grown before maize,**

12. Which best describes how kharif 1 maize will be grown?

- ☐ Maize will be planted after potato is harvested.  
☐ Maize will be planted before potato is harvested.

13. How much fertilizer did you apply to the **previous crop selected in number 11** for your \_\_\_\_\_ decimal plot?

Fertilizer	Amount applied in kg
DAP	_____
TSP	_____
MOP	_____
Other fertilizer source	_____

For other fertilizer source, indicate fertilizer analysis listed on the bag:

%N = \_\_\_\_\_ %P<sub>2</sub>O<sub>5</sub> = \_\_\_\_\_ %K<sub>2</sub>O = \_\_\_\_\_

If previous crop was potato and maize will planted after potato is harvested,

14. How much yield of fresh potato tuber did you harvest from your \_\_\_\_\_ decimal plot before this kharif 1 maize?

Potato yield in maund (1 maund = 40 kg): \_\_\_\_\_

If previous crop was potato,

15. How do you manage the potato vines at harvest?

☐ Retained in the field  
☐ Removed from the field

16. Based on experience in past years, do you anticipate drought for the upcoming kharif 1 maize crop?

☐ No, water supply from irrigation and rainfall is sufficient to avoid drought.  
☐ Yes, drought can occur due to insufficient water supply.

17. Based on experience in past years, which best describes the occurrence of yield loss due to soil waterlogging during grain filling?

☐ Very likely, 4 or 5 years out of 5 years  
☐ Probable, 2 or 3 years out of 5 years  
☐ Unlikely, 0 or 1 year out of 5 years

18. Which best describes the soil in your plot?

☐ Sandy to loamy ☐ Clayey

19. Will you apply organic materials to your \_\_\_\_\_ decimal plot this upcoming kharif 1?

☐ No ☐ Yes

If yes to number 19,

Select the organic materials to be applied in your \_\_\_\_\_ decimal plot and indicate the total weight of organic materials in kg.

Organic material	Weight in kg
<input type="radio"/> Cow dung (decomposed)	_____
<input type="radio"/> Poultry manure	_____
<input type="radio"/> Vermicompost	_____
<input type="radio"/> Compost	_____
<input type="radio"/> Press mud	_____
<input type="radio"/> Ash from cooking stove	_____

20. Which P-containing fertilizer will you use this upcoming kharif 1?

☐ TSP (0-46-0) ☐ DAP (18-46-0)

**For the user of *Maize Crop Manager*:**

21. Did you answer the questions through an interview of a farmer who wants to receive a recommendation?  
☐ Yes  
☐ No, the recommendation will not be given to a farmer

**Additional questions for the user of *Maize Crop Manager* if yes to number 21:**

22. In your opinion, what is the landscape position of the farmer's plot?  
☐ Highland    ☐ Medium highland    ☐ Medium lowland    ☐ Lowland
23. Based on your experience, which of the following are typically recommended for kharif 1 maize at the location of the farmer's plot? (Multiple selections allowed.)  
☐ Lime    ☐ Sulfur    ☐ Zinc    ☐ Boron

**Additional questions for the farmer if yes to number 21:**

24. What maize variety will you grow for the upcoming **kharif 1**? \_\_\_\_\_
25. What is the growth duration of maize to be grown?  
☐ 90-100 days  
☐ 101-110 days  
☐ 111-120 days
26. Have you, before this interview, received information on maize cultivation practices from an extension worker or input supplier?  
☐ No    ☐ Yes

**If yes to number 26,**

27. Select the following that provided you with information on maize cultivation practices. (Multiple selections allowed.)  
☐ Department of Agricultural Extension (DAE)  
☐ Non-governmental organization (NGO)  
☐ Seed supplier  
☐ Supplier of inputs other than seeds  
☐ Others  
If others, please specify: \_\_\_\_\_

**If yes to number 26,**

28. Did you find the information on maize cultivation sufficiently valuable that you used it?  
☐ Yes    ☐ No

### Information about the farmer

Given name: \_\_\_\_\_

Full name: \_\_\_\_\_

National ID number (optional): \_\_\_\_\_

Age: \_\_\_\_\_ Gender: ☐ Male ☐ Female

Mobile phone number (optional): \_\_\_\_\_

\*Entering your mobile phone number would enable you to receive SMS updates and advice during the season.

Email (optional): \_\_\_\_\_

CSISA project ID of farmer (optional): \_\_\_\_\_

What is your highest level of education and skills? (optional)

☐ No formal school, no reading, and no signing skills

☐ No formal school, no reading but signing skills

☐ No formal school, reading, and signing skills

☐ Primary

☐ Secondary

☐ University

What is your main occupation? (optional)

☐ Farming

☐ Non farming, professional (for example: telecom)

☐ Non farming, laborer

☐ Share cropper

☐ Business

### Information about the person operating *Maize Crop Manager*

Given name: \_\_\_\_\_

Full name: \_\_\_\_\_

Do you reside in Bangladesh?

☐ Yes

☐ No

**If yes,**

Gender: ☐ Male

☐ Female

Profession:

☐ Extension worker or agent

☐ Farmer

☐ Researcher

☐ Loan officer

☐ Fertilizer dealer

☐ Union Information and Service Centre (UISC) computer operator

☐ Private entrepreneur

☐ Others, please specify: \_\_\_\_\_

Mobile phone number (optional): \_\_\_\_\_

Email (optional): \_\_\_\_\_