Rice-Wheat Crop Manager Eastern UP Version 1.0 (RWCM UP v1.0)

Rice-Wheat Crop Manager provides a farmer with personalized crop management recommendations for rice and wheat grown in both rainfed and irrigated rice-wheat cropping systems.

Instructions:

The farmer should answer the following questions for their field before the establishment of their next rice or wheat crop. If the farmer has more than one field, the questions should be answered separately for each field for which a recommendation is desired.

1.	Where is the field?
	District:
	Block:
	Village:
	-

How do you name the field for identification? ______

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

- 3. What is the size of the field?
 - O _____ bigha
 - O _____ gatha
 - O _____ decimal O _____ acre

If bigha, gatha, or decimal, How many selected field size unit in 1 acre? _____

4. For which upcoming crop do you need a recommendation? O Wheat O Rice

If Wheat, continue answering the guestions in SET A (pages 1-3). If Rice, continue answering the questions in SET B (pages 4-5).

SET A. If the selected crop is wheat:

- 5. How will wheat be established?
 - O Zero tillage
 - O Conventional tillage, broadcast sowing
 - O Conventional tillage, line sowing
- 6. What wheat variety will you grow for the upcoming season? Name of the variety:
- 7. When is wheat sown in the field?

Select a month: O November

O December

Enter a date: _____

- 8. What rice variety was used in the last kharif? Name of the variety: _____
- 9. How was the previous rice crop harvested? O Manual O Combine

If manual harvest,

10a. What portion of residue from your previous rice crop was retained in the field?

- O Short standing biomass, < 10 cm height
- O Tall standing biomass, 20 cm height

If combine harvest,

10b. How was residue from your previous rice crop managed?

- O Standing biomass and straw retained in field
- O Straw removed and standing biomass retained in field
- O Standing biomass and straw removed after harvest
- 11. How many times do you plan to irrigate the wheat crop from establishment to harvest? O 1 time O 2 times O 3 or more times
- 12. What kind of weeds predominates in your field during the wheat crop?
 - O Phalaris minor only
 - O Broadleaves
 - O Mix of broadleaves and grasses
 - O Not known
- 13. Did you apply zinc to the previous rice crop?
 - O No
 - O Yes, at less than 10 kg Zn sulfate/acre
 - O Yes, at 10 kg Zn sulfate/acre or more
- 14. What fertilizer sources in addition to urea will you apply to wheat?

O DAP (18-46-0) and MOP (0-0-60)	O SSP (0-16-0) and MOP
O NPS (20-20-0-13) and MOP	O NPK (12-32-16) and MOP
O NPK (14-35-14) and MOP	O NPK (10-26-26) and MOP

15. Has a soil test been obtained for the field in the past 2 years? O No O Yes

lf yes,

What was the result for n O Low	itrogen (N)? O Medium	O High
What was the result for p O Low	hosphorus (P)? O Medium	O High

What was the result for potassium (K)? O Low O Medium

O High

What was the result for zinc (Zn)?O LowO MediumO HighO Not available

What was the result for boron (B)?O LowO MediumO HighO Not available

For the person operating *Rice-Wheat Crop Manager*

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

If yes, proceed to page 6.

SET B. If the selected crop is rice:

How will rice be established?
 O Manual transplanting
 O Wet seeding

O Mechanical transplanting O Dry seeding

6. What rice variety will you grow for the upcoming kharif? Name of the variety: _____

If manual or mechanical transplanting, 7a. When is rice sown in the nursery?

Select a month: O June O July O August

Enter a date: _____

If wet or dry seeding,

7b. When is rice sown in the field?

Select a month: O June O July O August

Enter a date: _____

If manual or mechanical transplanting,

- 8. What is the approximate seedling age at transplanting?
 O 15-20 days
 O 31-40 days
 O Older than 40 days
- 9. What is the local unit used for yield of rice? O Quintal O Mann
- 10. What yield of fresh, unmilled rice do you typically harvest from your field size in local unit field using selected variety or a comparable variety? Sum amounts of grain marketed, retained for household consumption, and provided to laborers.

If grain yield is expressed in quintal, Grain yield: _____ quintal from field size in local unit

If field size is expressed in mann, Grain yield: _____ mann from field size in local unit

Note: 1 quintal = 100 kg; 1 mann = 40 kg

11. In the past 5 years, how many years was your rice crop inundated by floods? O Less than 3 O 3 or more

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O NeverO 1 or 2 timesO 3 or 4 timesO 5 times or more	?
If wet or dry seeding,12b. How many times do you plan to irrigate the rice crop from sowing to harvest?O NeverO 1 or 2 timesO 3 or 4 timesO 5 times or more	
13. Does stagnant water in the field prevent harvest of rice in October? O No O Yes	
14. What fertilizer sources in addition to urea will you apply to rice?O DAP (18-46-0) and MOP (0-0-60)O SSP (0-16-0) and MOPO NPS (20-20-0-13) and MOPO NPK (12-32-16) and MOPO NPK (14-35-14) and MOPO NPK (10-26-26) and MOP	
15. Has a soil test been obtained for the field in the past 2 years? O No O Yes	
If yes,	
What was the result for nitrogen (N)? O Low O Medium O High	
What was the result for phosphorus (P)? O Low O Medium O High	
What was the result for potassium (K)? O Low O Medium O High	
What was the result for zinc (Zn)? O Low O Medium O High O Not available	
What was the result for boron (B)? O Low O Medium O High O Not available	

For the person operating *Rice-Wheat Crop Manager*

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

If yes, proceed to page 6.

Information about the farmer

Given name: _____

Father's name/Mother's name/Husband's name: _____

Age: O <30 O 31-40 O 41-50 O 51-60 O >60 Gender: O Male O Female Mobile phone number (optional): _____ Email (optional): _____

Information about the person operating Rice-Wheat Crop Manager

Given name: _____

Father's name/Mother's name/Husband's name: _____

Do you reside in eastern UP, India? O Yes O No

If yes,

Gender: O Male O Female

Profession: O Extension worker or agent O Farmer O Researcher O Fertilizer dealer O Others, please specify: _____

What is your organizational affiliation? O BHU O CSISA O ICAR O NDUAT O Others, please specify: _____

Mobile phone number (optional): _____

E-mail (optional):