

Crop Manager for Stress-Tolerant Rice (Bihar) Beta Version

Crop Manager for Stress-Tolerant Rice provides a farmer with a personalized crop management recommendation after they answer a series of questions. It is only for use with rainfed rice grown in submergence- or drought-prone areas.

Instructions:

The farmer should answer the questions for their rice field for the upcoming kharif.

1. For how many rice fields do you desire a recommendation? _____

Answer the following questions for your field number ____

2. How do you name the field for identification? _____

3. Where is the field?

District: _____

Block: _____

Village: _____

4. What is the size of the field area on which rice will be grown?

_____ Kattha

_____ Acre

If kattha is selected:

Is ____ kattha equal to 1 acre?

No

Yes

If no,

How many kattha in 1 acre? _____ kattha

5. What rice variety will you grow for the upcoming kharif?

Submergence tolerant

Drought tolerant

Ask for drought or submergence-tolerant varieties,

6. How will rice be established?

Manual transplanting

Dry seeding

If crop establishment method is transplanting,

7a. Will you raise your seedlings?

Yes

No

If yes,

8a. When is rice sown in the nursery?

Month: _____

Date: _____

If no,

8b. What is your source of seedlings?

Purchased

Borrowed

8c. When is rice sown in the nursery?

Month: _____

If crop establishment method is direct seeding,

7b. When is rice sown in the field?

Month: _____

Date: _____

If transplanting and selected variety is submergence-tolerant,

9a. What is the anticipated age of the seedling at transplanting?

Less than 30 days old

30 to 40 days old

More than 40 days old

If transplanting and selected variety is drought-tolerant,

9b. What is the anticipated age of the seedling at transplanting?

Less than 15 days old

15 to 25 days old

More than 25 days old

If the selected variety is drought-tolerant,

10. In the past 5 years, how many years was yield of your kharif rice reduced by drought?

0 to 1 year

2 to 3 years

4 to 5 years

If rice crop was affected by drought 2 to 5 years in 5 years,

11. Is life saving irrigation available in your field during a drought?

Yes

No

If yes,

12. When is life saving irrigation available?

Tillering

Panicle initiation

Flowering

If the selected variety is submergence-tolerant,

13. In the past 5 years, how many years was your kharif rice submerged?

0 to 1 year

2 to 3 years

4 to 5 years

If rice crop was submerged by flash floods 2 to 5 years in 5 years,

14. In years with submergence, how many times in one year is your field typically inundated by flash floods?

1

2 to 3

4 or more

If transplanting and a rice crop was inundated by flash floods 2 to 5 years in 5 years and with more than 1 flood per year,

15a. Based on your experience in past years, when does submergence often occur?

From transplanting to 15 days after transplanting

From 15 days after transplanting to active tillering

- Active tillering to 15 days after active tillering
- 15 days after active tillering to panicle initiation
- 1 to 15 September
- 16 to 30 September or October

If direct seeding and a rice crop was inundated by flash floods 2 to 5 years in 5 years and with more than 1 flood per year,

- 15b. Based on your experience in past years, when does submergence often occur?
- From 10 to 15 days after sowing
 - From 15 days after sowing to active tillering
 - Active tillering to 15 days after active tillering
 - 15 days after active tillering to panicle initiation
 - 1 to 15 September
 - 16 to 30 September or October

If rice crop was inundated by flash floods 2 to 5 years in 5 years and with more than 1 flood per year

16. Based on your experience in past years, what is typically the number of days before the flash flood recedes?
- Less than 15 days
 - 15 to 20 days

17. In the past 5 years, how many years was yield of your kharif rice reduced by drought?
- 0 to 1 year
 - 2 to 3 years
 - 4 to 5 years

If rice crop was affected by drought 2 to 5 years in 5 years,

18. Is life saving irrigation available in your field during a drought?
- Yes
 - No

If yes,

19. When is life saving irrigation available?
- Tillering
 - Panicle initiation
 - Flowering

20. What fertilizer sources in addition to urea will you apply to rice?

- DAP and MOP
- TSP and MOP
- NP (20-20-0-13) and MOP
- NPK (12-32-16) and MOP
- SSP and MOP

For the person operating *Crop Manager for Stress-Tolerant Rice*

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 the farmer

If yes,

Additional questions for the farmer:

21. What was the last crop in the field before this upcoming kharif rice?
 Rice Wheat (complete rainfed) Wheat (limited irrigation)
 Linseed Chickpea Lentil Lathyrus Pigeonpea
 Other (specify)

If crop establishment method is transplanting,

22. Do you apply insecticide within 30 days after transplanting rice?
 No Yes

If crop establishment method is dry seeding,

23. Do you apply insecticide within 30 days after sowing rice?
 No Yes

24. Do you typically apply herbicide to control weeds in rice?
 No Pre emergence only Post emergence only
 Both pre- and post-emergence

If selected field size unit is in kattha,

- 25a. How much fertilizer did you apply to your _____ kattha field in the 2014 kharif rice season?

If selected field size unit is in acre,

- 25b. How much fertilizer did you apply to your _____ acre field in the 2014 kharif rice season?

Time of application	DAS or DAT	Name of fertilizer	Weight in kilogram
1 st application			
2 nd application			
3 rd application			
4 th application			

Information about the farmer

Given name: _____
Father's name: _____
IRRAS project farmer ID: _____
Age: _____
 <30

- 31-40
- 41-50
- 51-60
- >60

Gender: Male Female

Indicate which of the following represents you:

- I have in 2014 or earlier heard of IRRAS
- IRRAS had previously conducted a field trial in my rice fields
- I have used submergence-tolerant rice in previous years
- I have used drought-tolerant rice previous years
- None of the above

If selected variety is submergence-tolerant,

Will your field be monitored for events of submergence this kharif season by a farmer-leader or CRS contact person?

- Yes No

If selected variety is drought-tolerant,

Will your field be monitored for events of drought this kharif season by a farmer-leader or CRS contact person?

- Yes No

If yes and the selected variety is submergence-tolerant,

In your village, how do you describe your field during a flood event?

- Most flooded and among the first fields to submerge
- Intermediately flooded and among the second fields to submerge
- Least flooded and among the last fields to submerge

If yes and the selected variety is drought-tolerant,

In your village, how do you describe your field during a drought event?

- Most dry and among the first fields to experience drought
- Intermediately dry and among the second fields to experience drought
- Least dry and among the last fields to experience drought

CMSTR could send you SMS with farming advice during the upcoming kharif season. A phone number is required to receive SMS.

Enter mobile phone number (optional): _____

If a phone number is entered,

Would you like to receive SMS in the upcoming kharif season to remind you of the CMSTR recommendation?

No Yes

Email (optional): _____

Is the person interviewing the farmer different from the farmer leader or CRS contact person?

Yes No

If yes,

Information about the farmer-leader or CRS contact person who will monitor the field

Given name: _____

Father's name: _____

Mobile phone number (optional): _____

An email address is required for the person to receive information about the CMSTR recommendation provided to the farmer

Email: _____

Information about the person operating *Crop Manager for Stress-Tolerant Rice Varieties*

Given name: _____

Father's name: _____

Gender: Male Female

Profession:

Extension worker or agent

Farmer

Researcher

Fertilizer dealer

NGO

Others, please specify: _____

Mobile phone number (optional): _____

Email (optional): _____