# GRAPHICAL PEST SITUATION ON RICE CROP IN PUNJAB DURING 3RD WEEK OF SEPTEMBER, 2023
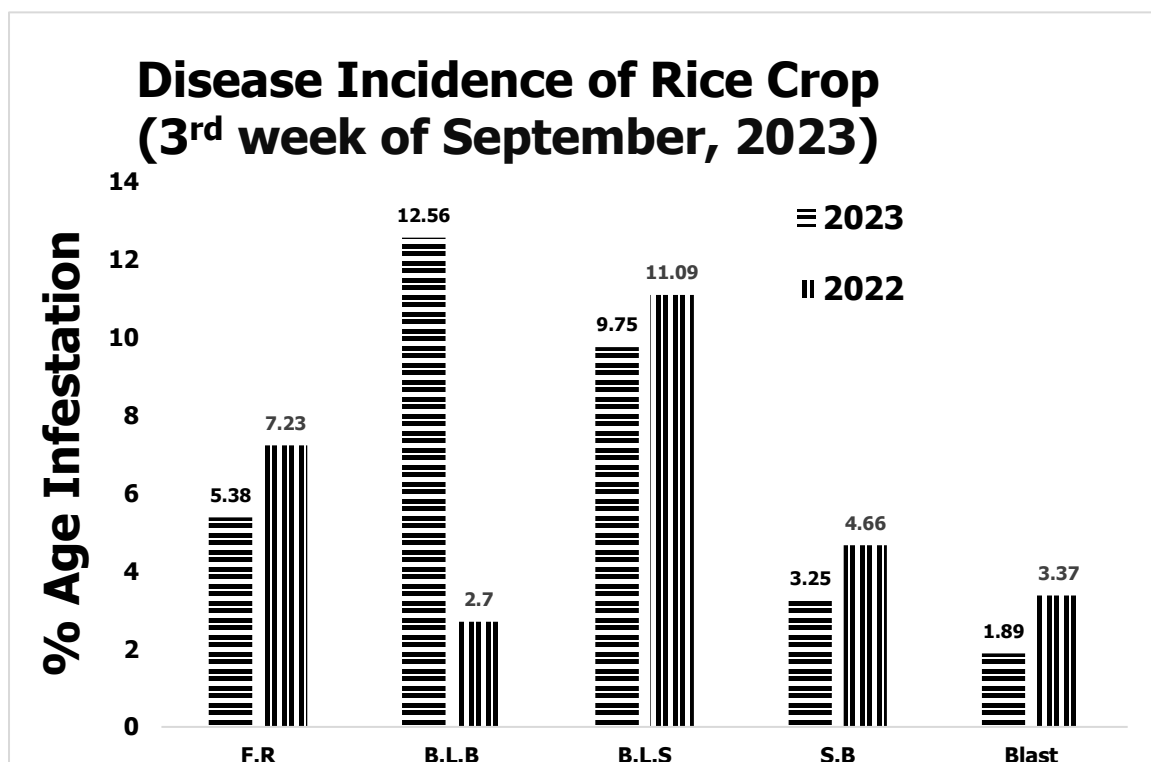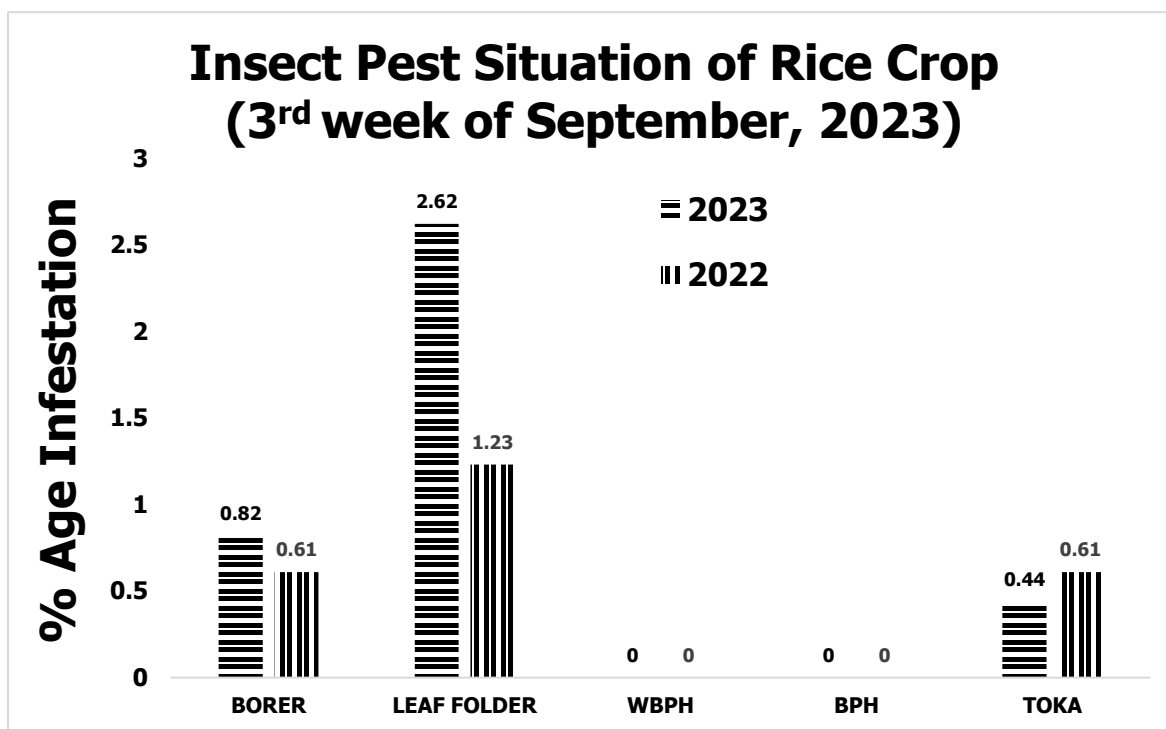
## Insect Pest Situation of Rice Crop (3rd week of September, 2023)

**% Age Infestation**

≡ 2023
⫼ 2022

| Pest | 2023 | 2022 |
|------|------|------|
| BORER | 0.82 | 0.61 |
| LEAF FOLDER | 2.62 | 1.23 |
| WBPH | 0 | 0 |
| BPH | 0 | 0 |
| TOKA | 0.44 | 0.61 |

## Disease Incidence of Rice Crop (3rd week of September, 2023)

**% Age Infestation**

≡ 2023
⫼ 2022

| Disease | 2023 | 2022 |
|---------|------|------|
| F.R | 5.38 | 7.23 |
| B.L.B | 12.56 | 2.7 |
| B.L.S | 9.75 | 11.09 |
| S.B | 3.25 | 4.66 |
| Blast | 1.89 | 3.37 |

DIRECTORATE GENERAL OF PEST WARNING AND QUALITY CONTROL OF PESTICIDES
PUNJAB, LAHORE

# PEST SITUATION ON RICE CROP IN PUNJAB DURING 3RD WEEK OF SEPTEMBER, 2023

| Pest Situation of Rice Pests | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sr. No. | Pest Name | %Age of spots | | | | | Remarks |
| | | Current Week | | Previous Week | | Corresponding week of Last Year | |
| | | AETL | BETL | AETL | BETL | AETL | BETL | |
| 1 | RICE BORER | 0.82 | 13.63 | 0.74 | 12.35 | 0.61 | 12.50 | Increasing |
| 2 | LEAF FOLDER | 2.62 | 23.86 | 1.72 | 14.81 | 1.23 | 18.63 | Increasing |
| 3 | WPBH | 0.00 | 0.87 | 0.00 | 0.10 | 0.00 | 0.92 | - |
| 4 | BPH | 0.00 | 1.02 | 0.00 | 0.49 | 0.00 | 1.47 | - |
| 5 | TOKA | 0.44 | 20.27 | 0.39 | 17.81 | 0.61 | 20.83 | Decreasing |
| 6 | FOOT ROT | 5.38 | - | 5.71 | - | 7.23 | - | Increasing |
| 7 | B.L.B | 12.56 | - | 8.71 | - | 2.70 | - | Increasing |
| 8 | B.L.S | 9.75 | - | 6.64 | - | 11.09 | - | Increasing |
| 9 | SHEAT H BLIGHT | 3.25 | - | 1.23 | - | 4.66 | - | Increasing |
| 10 | BLAST | 1.89 | - | 1.28 | - | 3.37 | - | Increasing |
| NO. OF TOTAL SPOTS VISITED | | 2062 | | | | | |
| TOTAL AREA VISITED (Acres) | | 16323 | | | | | |

## Tehsil wise percentage of hot spots of Rice Borer

| Sr. | TEHSIL | %AGE | Sr. | TEHSIL | %AGE |
|---|---|---|---|---|---|
| 1 | Muzaffargarh | 25 | 6 | Pakpattan | 6.7 |
| 2 | Kabirwala | 11.1 | 7 | Sangla Hill | 4.4 |
| 3 | Minchanabad | 8.8 | 8 | Nankana Sahib | 4.3 |
| 4 | Shahkot | 7.9 | 9 | Kot Radha Kishan | 2.5 |
| 5 | Mian Channu | 6.7 | 10 | Lahore | 1.9 |

## Tehsil wise percentage of hot spots of Rice Leaf Folder

| Sr. | TEHSIL | %AGE | Sr. | TEHSIL | %AGE |
|---|---|---|---|---|---|
| 1 | Shakargarh | 25 | 15 | M.B.Din | 5.7 |
| 2 | Ahmadpur | 25.0 | 16 | Malikwal | 5.6 |
| 3 | Alipur | 23.1 | 17 | Shahkot | 5.3 |
| 4 | Khanewal | 16.7 | 18 | Kot Radha Kishan | 5.0 |
| 5 | Minchanabad | 14.7 | 19 | Sangla Hill | 4.4 |
| 6 | Mian Channu | 13.3 | 20 | Safdarabad | 4.3 |
| 7 | Muzaffargarh | 12.5 | 21 | Nankana Sahib | 4.3 |
| 8 | Kabirwala | 11.1 | 22 | Lalian | 4.2 |
| 9 | Bahawalpur | 11.1 | 23 | Sialkot | 3.3 |
| 10 | Hasilpur | 10.0 | 24 | Chak Jhumra | 3.1 |
| 11 | Lahore | 7.4 | 25 | Pindi Bhattian | 2.9 |
| 12 | Kot chutta | 6.3 | 26 | Kasur | 2.3 |
| 13 | Hafizabad | 6.2 | 27 | Kamalia | 2.3 |
| 14 | Phalia | 5.9 | 28 | Ferozwala | 2.2 |

## Tehsil wise percentage of hot spots of White-Backed Plant Hopper

Nill

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## Tehsil wise percentage of hot spots of Brown Plant Hopper

Nill

## Tehsil wise percentage of hot spots of Rice Toka

| Sr. | TEHSIL | %AGE | Sr. | TEHSIL | %AGE |
|---|---|---|---|---|---|
| 1 | Lahore | 7 | 4 | M.B Din | 2.9 |
| 2 | Ferozwala | 4.4 | 5 | Muridke | 2.7 |
| 3 | Narang Mandi | 2.9 | | | |

## Tehsil wise percentage of hot spots of Foot Rot

| Sr. | TEHSIL | %AGE | Sr. | TEHSIL | %AGE |
|---|---|---|---|---|---|
| 1 | Liaqautpur | 100 | 23 | Kot Radha Kishan | 12.5 |
| 2 | Khan pur | 100 | 24 | Silanwali | 12.5 |
| 3 | R.Y.Khan | 66.7 | 25 | Muzaffargarh | 12.5 |
| 4 | Bhalwal | 50 | 26 | Phalia | 11.8 |
| 5 | Sadiqabad | 50 | 27 | Shahkot | 10.5 |
| 6 | Alipur | 38 | 28 | Shahpur | 9.1 |
| 7 | Kot Momin | 25 | 29 | Depalpure | 9.1 |
| 8 | Jatoi | 25 | 30 | Narang Mandi | 8.8 |
| 9 | Bhera | 20 | 31 | Bhowana | 8.3 |
| 10 | Mailsi | 20 | 32 | Sangla Hill | 6.7 |
| 11 | Burewala | 20 | 33 | Sargodha | 5.9 |
| 12 | Sahiwal | 20 | 34 | Malikwal | 5.6 |
| 13 | Safdarabad | 19.6 | 35 | Sahiwal | 4.5 |
| 14 | Sharqpur | 17.1 | 36 | Khushab | 4.5 |
| 15 | Lodhran | 16.7 | 37 | Pindi Bhattian | 2.9 |
| 16 | Kamonke | 16.3 | 38 | M.B.Din | 2.9 |
| 17 | Muridke | 16.2 | 39 | Sambrial | 2.6 |
| 18 | Kharian | 14.3 | 40 | Kamalia | 2.3 |
| 19 | Ferozwala | 13.3 | 41 | Chiniot | 2.0 |
| 20 | Pakpattan | 13.3 | 42 | Lahore | 1.9 |
| 21 | Nankana Sahib | 12.8 | 43 | Sialkot | 1.7 |
| 22 | Sheikhupura | 12.5 | | | |

## Tehsil wise percentage of hot spots of Bacterial Leaf Blight

| Sr. | TEHSIL | %AGE | Sr. | TEHSIL | %AGE |
|---|---|---|---|---|---|
| 1 | Gujranwala | 61 | 23 | Pindi Bhattian | 11.4 |
| 2 | Pasrur | 52 | 24 | Kabirwala | 11.1 |
| 3 | Sarai Alamgir | 50.0 | 25 | Shahkot | 10.5 |
| 4 | Baddomalhi | 46 | 26 | Zafarwal | 10.0 |
| 5 | Daska | 43 | 27 | Sheikhupura | 8.3 |
| 6 | Hafizabad | 40 | 28 | Lahore | 7.4 |
| 7 | Sambrial | 37 | 29 | Mian Channu | 6.7 |
| 8 | Sialkot | 35 | 30 | Nankana Sahib | 6.4 |
| 9 | Kamonke | 30 | 31 | Kot chutta | 6.3 |
| 10 | Narowal | 29 | 32 | Chunian | 5.3 |
| 11 | Noshehra Virkan | 28 | 33 | Khushab | 4.5 |
| 12 | Narang Mandi | 26 | 34 | Ferozwala | 4.4 |

| Sr. | TEHSIL | %AGE | Sr. | TEHSIL | %AGE |
|---|---|---|---|---|---|
| 13 | Phalia | 23.5 | 35 | Safdarabad | 4.3 |
| 14 | Malikwal | 16.7 | 36 | Shakargarh | 4.2 |
| 15 | Khanewal | 16.7 | 37 | Jhang | 2.5 |
| 16 | Muridke | 16.2 | 38 | M.B.Din | 2.9 |
| 17 | Wazirabad | 14.3 | 39 | Sambrial | 2.6 |
| 18 | M.B.Din | 14.3 | 40 | Kamalia | 2.3 |
| 19 | Sangla Hill | 13.3 | 41 | Chiniot | 2.0 |
| 20 | Jaranwala | 12.5 | 42 | Lahore | 1.9 |
| 21 | Muzaffargarh | 12.5 | 43 | Sialkot | 1.7 |
| 22 | D.G Khan | 12.5 | | | |

## Tehsil wise percentage of hot spots of Brown Leaf Spots

| Sr. | TEHSIL | %AGE | Sr. | TEHSIL | %AGE |
|---|---|---|---|---|---|
| 1 | Chistian | 50 | 23 | Sangla Hill | 11.1 |
| 2 | Bahawalnagar | 50 | 24 | Muridke | 10.8 |
| 3 | Baddomalhi | 46.2 | 25 | Hafizabad | 10.8 |
| 4 | Phalia | 35 | 26 | Nankana Sahib | 10.6 |
| 5 | Kot Radha Kishan | 30 | 27 | Sialkot | 10.0 |
| 6 | Pirmahal | 30 | 28 | Jaranwala | 10.0 |
| 7 | Shakargarh | 29 | 29 | Pattoki | 9.8 |
| 8 | M.B.Din | 26 | 30 | Chak Jhumra | 9.2 |
| 9 | Narowal | 25 | 31 | Sahiwal | 9.1 |
| 10 | Shujabad | 25 | 32 | Sheikhupura | 8.3 |
| 11 | Safdarabad | 24 | 33 | Bhowana | 8.3 |
| 12 | Zafarwal | 22 | 34 | Sambrial | 7.9 |
| 13 | Minchanabad | 20.6 | 35 | Shahkot | 7.9 |
| 14 | Khushab | 18.2 | 36 | Chiniot | 7.8 |
| 15 | Ferozwala | 17.8 | 37 | Kasur | 7.0 |
| 16 | Malikwal | 16.7 | 38 | Kamalia | 6.8 |
| 17 | Lahore | 16.7 | 39 | Silanwali | 6.3 |
| 18 | Bhalwal | 16.7 | 40 | Gujranwala | 5.3 |
| 19 | Jahanain | 16.7 | 41 | Jhang | 5.0 |
| 20 | Pindi Bhattian | 14.3 | 42 | Pasrur | 4.9 |
| 21 | Lalian | 12.5 | 43 | Noshehra Virkan | 3.5 |
| 22 | Sargodha | 11.8 | | | |

## Tehsil wise percentage of hot spots of Sheath Blight

| Sr. | TEHSIL | %AGE | Sr. | TEHSIL | %AGE |
|---|---|---|---|---|---|
| 1 | Shakargarh | 42 | 12 | Safdarabad | 6.5 |
| 2 | M.B.Din | 20 | 13 | Sambrial | 5.3 |
| 3 | Phalia | 17.6 | 14 | Shahkot | 5.3 |
| 4 | Noshehra Virkan | 14 | 15 | Kot Radha Kishan | 5.0 |
| 5 | Sheikhupura | 13 | 16 | Nankana Sahib | 4.3 |
| 6 | Malikwal | 11 | 17 | Pindi Bhattian | 2.9 |
| 7 | Pasrur | 8 | 18 | Sharqpur | 2.4 |
| 8 | Muridke | 8 | 19 | Pattoki | 2.4 |
| 9 | Chunian | 8 | 20 | Kasur | 2.3 |
| 10 | Sialkot | 7 | 21 | Zafarwal | 1.7 |
| 11 | Ferozwala | 7 | | | |

## Tehsil wise percentage of hot spots of Rice Blast

| Sr. | TEHSIL | %AGE | Sr. | TEHSIL | %AGE |
|---|---|---|---|---|---|
| 1 | Muzaffargarh | 25 | 10 | Malikwal | 5.6 |
| 2 | Chunian | 21 | 11 | Sahiwal | 4.5 |
| 3 | Lodhran | 16.7 | 12 | Sangla Hill | 4.4 |
| 4 | Depalpure | 14 | 13 | Shakargarh | 4.2 |
| 5 | Phalia | 12 | 14 | Zafarwal | 3.3 |
| 6 | Shahkot | 11 | 15 | Minchanabad | 2.9 |
| 7 | Kot Radha Kishan | 10 | 16 | M.B.Din | 2.9 |
| 8 | Pakpattan | 7 | 17 | Kamalia | 2.3 |
| 9 | Nankana Sahib | 6 | 18 | Ferozwala | 2.2 |

## Meteorological data of the current week 2023

| METEOROLOGICAL DATA FOR 3RD WEEK OF SEPTEMBER 2022 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Districts | 2023 | | | | 2022 | | |
| | Temperature | | R.H% | Rainfall | Temperature | | RH% | Rainfall |
| | Max. | Min. | | (mm) | Max. | Min. | | (mm) |
| Gujranwala | 33.8 | 23.6 | 60.0 | 22.0 | 34.5 | 26.5 | 72.5 | 0.0 |
| Hafizabad | 37.0 | 25.0 | 0.6 | 3.0 | 38.0 | 22.0 | 0.7 | 7.0 |
| Sialkot | 35.0 | 22.0 | 78.0 | 40.0 | 34.0 | 21.0 | 65.0 | 40.0 |
| Narowal | 31.2 | 20.2 | 82.8 | 20.0 | 33.2 | 21.2 | 81.6 | 10.0 |
| Gujrat | 36.9 | 25.0 | 0.7 | 3.0 | 37.0 | 25.0 | 0.7 | 9.0 |
| M.B Din | 37.0 | 24.0 | 0.6 | 4.0 | 36.8 | 22.0 | 0.7 | 8.0 |
| Lahore | 32.2 | 25.3 | 74.8 | 15.3 | 35.3 | 26.4 | 58.6 | 0.0 |
| Sheikhupura | 35.9 | 25.6 | 69.3 | 0.6 | 35.9 | 25.7 | 69.3 | 0.0 |
| Nankana | 33.2 | 22.5 | 62.0 | 5.2 | 34.5 | 24.7 | 42.0 | 0.0 |
| Kasur | 33.7 | 26.4 | 45.3 | 0.2 | 34.7 | 26.0 | 57.4 | 0.2 |
| Faisalabad | 35.6 | 25.6 | 73.6 | 8.6 | 37.0 | 25.8 | 73.7 | 0.4 |
| Jhang | 37.0 | 24.0 | 0.6 | 4.0 | 36.8 | 22.0 | 0.7 | 8.0 |
| Toba Tek Singh | 35.8 | 26.1 | 87.1 | 54.4 | 37.6 | 26.6 | 79.0 | 0.0 |
| Chiniot | 35.4 | 26.8 | 71.0 | 0.0 | 35.8 | 26.2 | 50.6 | 0.0 |
| Sargodha | 33.0 | 24.0 | 2.0 | 61.0 | 35.0 | 25.0 | 0.0 | 58.0 |
| Khushab | 38.7 | 27.5 | 68.7 | 0.0 | 35.5 | 24.5 | 79.0 | 0.0 |
| Mianwali | 38.0 | 32.0 | 41.0 | 0.0 | 37.0 | 23.0 | 51.0 | 0.0 |
| Bhakkar | 39.0 | 39.0 | 43.0 | 0.0 | 42.0 | 28.0 | 57.0 | 0.0 |
| Multan | 37.7 | 27.3 | 66.1 | 0.0 | 38.1 | 26.4 | 63.0 | 0.7 |
| Khanewal | 35.0 | 26.3 | 56.1 | 1.3 | 37.5 | 26.6 | 65.3 | 0.0 |
| Vehari | 36.6 | 27.0 | 62.4 | 0.3 | 36.9 | 26.9 | 65.6 | 0.0 |
| Lodhran | 35.8 | 25.5 | 70.2 | 1.5 | 36.4 | 25.0 | 69.6 | 0.0 |
| Sahiwal | 34.2 | 24.1 | 76.4 | 16.5 | 36.1 | 25.4 | 74.8 | 1.0 |
| Pakpattan | 34.6 | 24.0 | 76.0 | 5.6 | 35.8 | 24.6 | 72.4 | 0.0 |
| Okara | 34.8 | 24.6 | 75.8 | 8.5 | 36.0 | 25.0 | 72.0 | 0.0 |
| Bahawalpur | 36.6 | 26.8 | 70.9 | 2.0 | 38.5 | 26.0 | 62.1 | 0.0 |
| Bahawalnagar | 36.9 | 26.6 | 66.9 | 16.4 | 37.8 | 26.1 | 66.1 | 0.0 |
| R.Y.Khan | 36.9 | 27.4 | 63.8 | 0.0 | 38.4 | 26.1 | 44.7 | 0.0 |
| D.G. Khan | 39.1 | 31.4 | 56.3 | 0.0 | 37.1 | 28.3 | 62.1 | 0.0 |
| Muzaffar Garh | 36.8 | 26.3 | 52.0 | 0.0 | 36.2 | 26.4 | 60.0 | 3.0 |
| Rajanpur | 38.4 | 29.0 | 58.1 | 0.0 | 38.8 | 28.0 | 61.3 | 0.0 |
| Layyah | 38.6 | 19.2 | 44.0 | 0.0 | 31.2 | 20.0 | 78.0 | 2.0 |
| TOT/AVG | 35.95 | 25.94 | 54.88 | 293.4 | 36.41 | 25.07 | 54.89 | 147.3 |

**DIRECTORATE GENERAL OF PEST WARNING AND QUALITY CONTROL OF PESTICIDES PUNJAB, LAHORE**

**Forecast of Rice Pests:**

**Borer:** This pest flourishes best in warm humid climate with optimum temperature 17-30 °C with relative humidity between 45-80%. Based on the temperature outlook for the current week and the weather forecast for the next week, it is anticipated that the population of this pest might experience growth in the upcoming week. This projection is due to the continued favorable temperature conditions that support the pest's development.

**Leaf Folder:** This pest flourishes best in warm humid climate with optimum temperature 25-30°C. Based on the temperature outlook for the current week and the weather forecast for the next week, it is anticipated that the population of this pest might experience growth in the upcoming week. This projection is due to the continued favorable temperature conditions that support the pest's development.

**White-backed plant hopper:** This pest flourishes best in warm humid climate with optimum temperature 25-29°C with relative humidity between 80-90%. Keeping in view the temperature for current week and weather forecast of next week, it is predicted that population of this pest may increase during the coming week as the temperature remain not favorable for the development of this pest.

**Brown plant hopper:** This pest flourishes best in warm humid climate with optimum temperature 28-30°C with relative humidity below 80-90%. Keeping in view the temperature for current week and weather forecast of next week, it is predicted that population of this pest may increase during the coming week as the temperature remain not favorable for the development of this pest.

**Toka:** This pest flourishes best in warm humid climate with optimum temperature 24-40°C with relative humidity between 30-80%. Based on the temperature outlook for the current week and the weather forecast for the next week, it is anticipated that the population of this pest might experience growth in the upcoming week. This projection is due to the continued favorable temperature conditions that support the pest's development.

**Foot rot:** High humidity and cloudy weather during heading stage are favorable for the development of foot rot of rice. The fungus has a wide range of temperature for optimum growth which is between 30-35 °C. Based on the temperature forecast for the current week and the projected weather conditions for the next week, there is a prediction that the intensity of the disease might escalate in the upcoming week. This prognosis is based on the favorable temperature conditions that support the development of this particular disease.

**Bacterial Leaf Blight**: Heavy rain, heavy dew, flooding, deep irrigation water are favorable factors for the development of disease. Temperature for optimum growth is between 25-34 °C with relative humidity above 70%. Based on the temperature forecast for the current week and the projected weather conditions for the next week, there is a prediction that the intensity of the disease might escalate in the upcoming week. This prognosis is based on the favorable temperature conditions that support the development of this particular disease.

**Brown Leaf spots:** Non-flooded and nutrient deficient soils or soils with accumulation of toxic substances are favorable for the development of disease. Temperature for optimum growth is between 16-36 °C with relative humidity from 86-100%. Based on the temperature forecast for the current week and the projected weather conditions for the next week, there is a prediction that the intensity of the disease might escalate in the upcoming week. This prognosis is based on the favorable temperature conditions that support the development of this particular disease.

**Sheath Blight**: Crop plants during rainy season are more vulnerable to the disease. Temperature for optimum growth is between 28-32 °C with relative humidity from 85-100%. Based on the temperature forecast for the current week and the projected weather conditions for the next week, there is a prediction that the intensity of the disease might escalate in the upcoming week. This prognosis is based on the favorable temperature conditions that support the development of this particular disease.

**Blast:** Intermittent drizzles, cloudy weather, more of rainy days, Low night temperature and longer duration of dew are favorable factors for the development of disease. Based on the temperature forecast for the current week and the projected weather conditions for the next week, there is a prediction that the intensity of the disease might escalate in the upcoming week. This prognosis is based on the favorable temperature conditions that support the development of this particular disease.

**RECOMMENDATION**

**RICE BORER MANAGEMENT**

- Handpick and destroy egg masses.
- Install light traps up to September to monitor moth population of stem borers.
- Use balanced Fertilizers (NPK) within 45 days after transplanting of nursery.
- Complete application of nitrogen up to 31st August because due to late application of nitrogenous fertilizer, the plant becomes succulent and dark-green which attracts the insects, and helps in their rapid multiplication along with increasing disease incidence.

## BOWN LEAF SPOT MANAGEMENT

- Avoid water stress before maturity.

- Control the disease with one of the following pesticides.

| S# | Common Name | Brand Name | Dose / Acre |
|----|-------------|------------|-------------|
| 1 | Propineb 70 WP | Gift, Cover, Protest | 800 gm |
| 2 | Mancozeb 80 WP | Shelter, Dithane-M | 800 gm |
| 3 | Propiconazole 25 EC | Tilt | 80 ml |

## FOOT ROT MANAGEMENT

- Uproot the diseased plants and destroy them.

- Use Potash 1 Bag within 14 days of transplanting.

- Flooding of Copper Sulphate 1.5-2 Kg/Acre.

## BACTERIAL LEAF BLIGHT MANAGEMENT

- Use disease free seeds for next crop.

- Spray copper-based fungicides without delay when disease incidence is observed.

## PADDY BLAST MANAGEMENT

- For leaf blast, re-flood if field has been drained. Maintain water level at 3-4inches to ensure that soil is covered.

- Avoid late use of nitrogenous fertilizers.

- Control the disease with one of the following fungicides;

| S# | Common Name | Brand Name | Dose / Acre |
|----|-------------|------------|-------------|
| 1 | Kasugamycin 6% WP | Fork | 250 gm |
| 2 | Trifloxystrobin+Tebuconazole 75%WP | Nativo | 65 gm |
| 3 | Azoxystrobin 25 % SC | Primacy | 200 ml |
| 4 | Difenoconazole 250 EC | Score | 125 ml |

## ECONOMIC THRESHOLD LEVELS OF RICE PESTS

| INSECT PESTS | ECONOMIC THRESHOLD LEVELS |
|--------------|---------------------------|
| Borers (White, Yellow & Pink) | 0.5% attack on rice nursery while 8-10 Moth/Trap/Night & 5% dead heart on rice crop. |
| Toka | 3 per net on rice nursery & 5 on rice crop. |
| Leaf Folder | 2 rolled leaves per plant in July-August & 3 rolled leaves per plant in September-October. |
| Brown Plant Hopper | 15 Nymphs or Adults per plant in July-August & 20 Nymphs or Adults per plant in September-October. Or 7-10 Nymphs or Adults per net |
| White Backed Plant Hopper | 15 Nymphs or Adults per plant in July-August & 20 Nymphs or Adults per plant in September-October. Or 7-10 Nymphs or Adults per net |
| Hispa | 1 per plant |
| Diseases | On appearance |