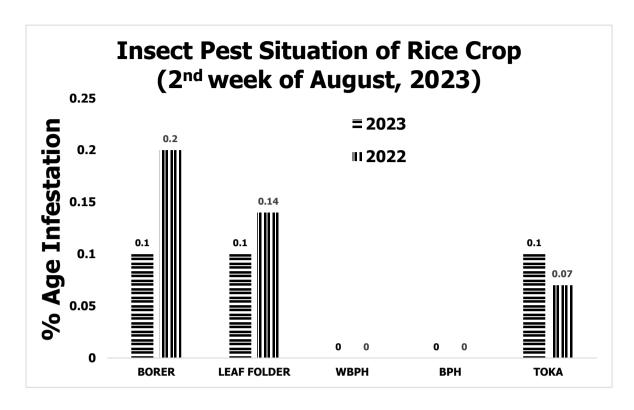
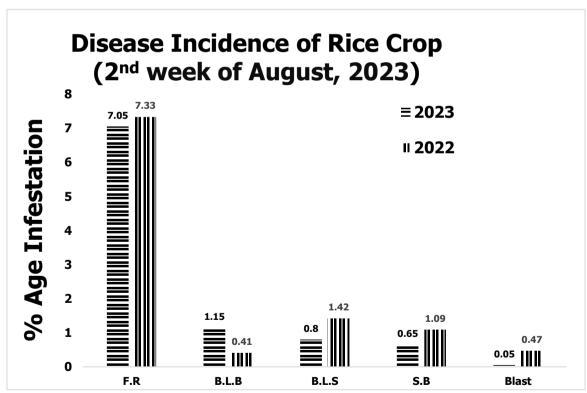
GRAPHICAL PEST SITUATION ON RICE CROP IN PUNJAB DURING 2ND WEEK OF AUGUST, 2023





PEST SITUATION ON RICE CROP IN PUNJAB DURING 2^{ND} WEEK OF AUGUST, 2023

	Pest Situation of Rice Pests							
%Age of spots								
Sr.	Pest Name	Curren	t Week Previous		us Week Corresponding week of Last Ye		_	Remarks
INO.		AETL	BETL	AETL	BETL	AETL	BETL	
1	RICE BORER	0.10	8.70	0.06	6.77	0.20	6.65	Increasing
2	LEAF FOLDER	0.10	4.95	0.11	3.19	0.14	4.34	Decreasing
3	WPBH	0.00	0.00	0.00	0.00	0.00	0.00	-
4	ВРН	0.00	0.00	0.00	0.00	0.00	0.00	-
5	TOKA	0.10	15.36	0.17	15.70	0.07	11.67	Decreasing
6	FOOT ROT	7.05	-	10.07	-	7.33	-	Decreasing
7	B.L.B	1.15	-	0.68	-	0.41	-	Increasing
8	B.L.S	0.80	-	0.51	-	1.42	-	Increasing
9	SHEAT H BLIGHT	0.65	-	1.02	-	1.09	-	Decreasing
10	BLAST	0.05	-	0.00	-	0.47	-	Increasing
NO	O. OF TOTAL SPOTS V	/ISITED	1	.999				
TC	TOTAL AREA VISITED (Acres)		10	6205				

Tehsil wise percentage of hot spots of Rice Borer

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Khanewal	25	2	Lahore	1.2

Tehsil wise percentage of hot spots of Rice Leaf Folder

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Shujabad	20	2	Minchanabad	6.3

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

Nill

Tehsil wise percentage of hot spots of Brown Plant Hopper

Nill

Tehsil wise percentage of hot spots of Rice Toka

Sr.	TEHSIL	%AGE
1	Sheikhupura	4

Tehsil wise percentage of hot spots of Foot Rot

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Bhalwal	50	24	Kot Radha Kishan	8.3
2	Sahiwal	30	25	Jaranwala	8.3
3	Gujrat	27.3	26	Shahkot	7.5
4	Kamonke	26.5	27	Muridke	7.4
5	Pasrur	23.3	28	Pindi Bhattian	7.3
6	Depalpure	21.7	29	Sahiwal	6.7

					5
7	Narowal	21.4	30	Chunian	6.3
8	Jhang	20	31	Shakargarh	6.1
9	AP Sial	20	32	Kasur	5.9
10	Lodhran	20	33	Bhowana	5.7
11	Dunya Pur	16.7	34	Kharian	5.3
12	Nankana Sahib	16.1	35	Safdarabad	5.3
13	Pattoki	13.9	36	Kot Momin	5.3
14	Pakpattan	13.3	37	Sialkot	5.1
15	Gujranwala	12	38	Sharqpur	5.1
16	Sambrial	12	39	Kamalia	4.3
17	Daska	11.1	40	Sheikhupura	4.0
18	Ferozwala	11.1	41	Hafizabad	3.6
19	Sangla Hill	10	42	M.B.Din	3.1
20	Phalia	9.5	43	Noshehra Virkan	2.9
21	Zafarwal	8.7	44	Chiniot	2.5
22	Chak Jhumra	8.5	45	Baddomalhi	2.4
23	Lahore	8.4			

Tehsil wise percentage of hot spots of Bacterial Leaf Blight

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Daska	26	5	Phalia	4.8
2	Noshehra Virkan	18	6	Sheikhupura	4.0
3	Gujranwala	6.0	7	Sialkot	2.6
4	Kamonke	5.9	8	Muridke	1.9

Tehsil wise percentage of hot spots of Brown Leaf Spots

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	M.B.Din	6	6	Safdarabad	3.5
2	Muridke	6	7	Pattoki	2.8
3	Pindi Bhattian	4.9	8	Chunian	2
4	Phalia	4.8	9	Kasur	2
5	Hafizabad	3.6	10	Lahore	1

Tehsil wise percentage of hot spots of Sheath Blight

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Kamonke	12	5	M.B.Din	3.1
2	Daska	7	6	Gujranwala	2.0
3	Phalia	4.8	7	Sheikhupura	2.0
4	Muridke	3.7	8	Safdarabad	2

Tehsil wise percentage of hot spots of Rice Blast

Sr.	TEHSIL	%AGE
1	Phalia	5

Meteorological data of the current week 2023

METEOROLOGICAL DATA FOR 2ND WEEK OF AUGUST 2023								
	2023				2022			
Districts	Tempera	ture	-	Rainfall	Temperature		D 110/	Rainfall
	Max.	Min.	R.H%	(mm)	Max.	Min.	RH%	(mm)
Gujranwala	37.3	28.5	75.5	442.0	0.0	0.0	0.0	0.0
Hafizbad	36.0	27.0	67.0	11.0	38.0	27.0	60.0	5.0
Sialkot	36.5	28.0	76.0	52.0	35.0	24.0	70.0	45.0
Narowal	34.3	22.3	85.4	88.0	32.0	22.0	91.2	43.0
Gujrat	36.0	23.0	80.0	9.0	35.9	23.0	59.0	6.0
M.B.Din	37.0	22.0	0.6	10.0	36.0	23.0	59.0	12.0
Lahore	33.0	24.5	53.0	4.0	33.2	23.5	51.0	0.0
Sheikhupura	34.7	24.5	53.0	0.0	33.2	23.5	51.0	0.0
Nankana	36.3	27.9	48.9	7.2	39.1	29.6	0.1	55.1
Kasur	33.7	23.3	85.6	0.0	34.9	24.0	84.7	0.0
Faisalabad	38.6	29.6	68.3	0.0	37.2	24.8	76.6	11.2
Jhang	39.1	27.9	56.0	0.0	37.7	27.0	62.4	0.0
Toba Tek Singh	37.8	27.4	75.9	0.0	37.5	28.0	83.1	1.4
Chiniot	37.0	28.8	71.0	0.0	34.6	26.8	64.8	0.0
Sargodha	41.0	32.0	46.0	0.0	42.0	33.0	43.0	0.0
Khushab	42.0	33.5	71.0	0.0	39.5	27.5	68.0	0.6
Mianwali	39.1	27.9	56.0	0.0	37.7	27.0	62.4	0.0
Bhakkar	41.0	31.0	55.0	0.0	40.0	25.0	55.0	0.0
Multan	37.0	28.0	62.5	0.0	36.7	26.9	71.6	0.0
Khanewal	38.6	29.9	53.8	0.0	37.3	28.7	67.0	0.0
Vehari	37.1	28.4	59.4	0.0	35.7	28.1	64.8	0.0
Lodhran	37.3	27.0	71.3	0.0	36.6	25.4	73.0	1.1
Sahiwal	37.6	28.9	71.6	0.0	37.5	28.2	70.2	0.0
Pakpattan	37.1	29.1	72.6	0.0	38.1	28.1	74.1	0.0
Okara	37.3	29.3	73.2	0.0	36.8	27.1	72.5	0.0
Bahawalpur	38.6	27.6	61.4	0.0	38.5	27.7	63.5	0.6
Bahawalnagar	38.3	28.0	65.2	0.0	35.6	27.0	74.0	36.0
R.Y.Khan	38.1	27.5	54.9	0.0	32.0	26.1	78.0	0.0
D.G. Khan	37.0	30.2	60.0	0.0	37.0	30.1	49.6	0.0
Muzaffargarh	37.3	28.0	42.0	0.0	39.8	24.6	70.0	0.0
Rajanpur	39.7	28.0	59.0	0.0	37.3	29.5	69.7	0.0
Layyah	43.0	30.0	60.0	0.0	49.0	27.0	92.0	10.0
TOT/AVG	37.64	27.78	62.21	623.2	35.98	25.73	63.48	227

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

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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.

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Foot rot: High humidity and cloudy weather during heading stage are favorable for

the development of foot rot of rice. The fungus have 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 <u>drizzles</u>, 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 darkgreen 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