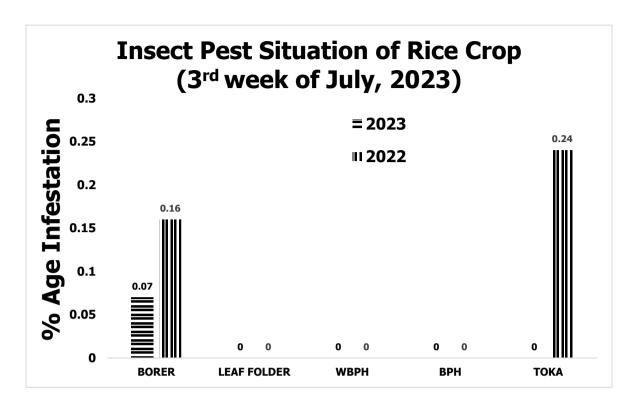
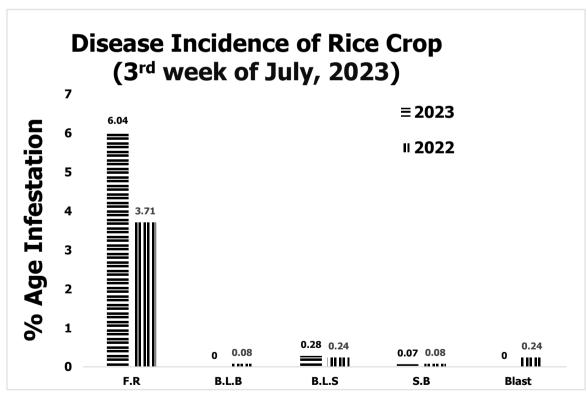
GRAPHICAL PEST SITUATION ON RICE CROP IN PUNJAB DURING 3RD WEEK OF JULY, 2023





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

	Pest Situation of Rice Pests							
	%Age of spots							
Sr. No.	Pest Name		Current Week 2023		Previous Week 2023		Corresponding week of Last Year 2022	
		AETL	BETL	AETL	BETL	AETL	BETL	
1	RICE BORER	0.07	4.14	0.00	4.11	0.16	4.11	Increasing
2	LEAF FOLDER	0.00	1.33	0.00	1.07	0.00	1.69	-
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	0.00	10.50	0.25	9.37	0.24	7.82	Decreasing
6	FOOT ROT	6.04	-	6.82	-	3.71	-	Decreasing
7	B.L.B	0.00	-	0.16	-	0.08	-	Decreasing
8	B.L.S	0.28	-	0.08	-	0.24	-	Increasing
9	SHEAT H BLIGHT	0.07	-	0.00	-	0.08	-	Increasing
10	BLAST	0.00	-	0.00	-	0.24	-	-
NO	. OF TOTAL SPOTS V	ISITED	1	424		·		
TC	TAL AREA VISITED (Acres)	10	0960				

Tehsil wise percentage of hot spots of Rice Borer

	Sr.	TEHSIL	%AGE
Ī	1	MB Din	5.8

Tehsil wise percentage of hot spots of Rice Leaf Folder

Nill

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	Lahore	6

Tehsil wise percentage of hot spots of Foot Rot

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Jahanain	50	17	Sahiwal	10.0
2	Kamonke	28.0	18	Noshehra Virkan	9.5
3	Pasrur	25.0	19	Hafizabad	9.5
4	Baddomalhi	25.0	20	Sialkot	9.5
5	Gujranwala	19.4	21	Safdarabad	7.8

6	Pindi Bhattian	19.2	22	Sharqpur	7.7
7	Daska	19.2	23	Sambrial	7.4
8	Shakargarh	17.2	24	M.B.Din	5.9
9	Gujrat	16.7	25	Muridke	5.3
10	Mian Channu	16.7	26	Ferozwala	4.4
11	Zafarwal	15.0	27	Nankana Sahib	3.5
12	Kabirwala	14.3	28	Shahkot	3.1
13	Narowal	13.3	29	Pattoki	2.6
14	Sheikhupura	10.3	30	Kamalia	2.1
15	Lahore	10.1	31	Chunian	2.1
16	Phalia	10.0			

Tehsil wise percentage of hot spots of Bacterial Leaf Blight

Nill

Tehsil wise percentage of hot spots of Brown Leaf Spots

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Phalia	10	3	Muridke	5.3
2	Kot Momin	7.1			

Tehsil wise percentage of hot spots of Sheath Blight

Sr.	TEHSIL	%AGE
1	Muridke	3

Tehsil wise percentage of hot spots of Rice Blast

Nill

Meteorological data of the current week 2023

	METEOROLOGICAL DATA FOR 3RD WEEK OF JULY 2023							
	2023				2022			
Districts	Temperat	ure	R.H%	Rainfall	Tempe	rature	RH%	Rainfall
	Max.	Min.	K.1170	(mm)	Max.	Min.	KIT70	(mm)
Gujranwala	36.5	27.5	78.0	178.0	38.5	28.5	75.5	10.0
Hafizbad	41.0	26.0	0.5	45.0	41.0	30.0	0.5	36.0
Sialkot	37.0	28.0	76.8	113.8	37.5	27.8	77.5	85.0
Narowal	34.0	22.8	80.8	0.0	32.3	20.7	81.7	40.0
Gujrat	31.0	21.0	65.0	72.0	34.8	24.5	62.0	0.0
MB.Din	42.0	25.0	0.6	58.0	42.0	29.0	0.5	43.0
Lahore	34.2	27.1	144.6	1.1	33.4	25.5	75.9	11.7
Sheikhupura	34.2	24.2	51.0	56.0	36.5	25.4	56.0	24.0
Nankana	34.7	27.6	38.9	1.3	33.0	25.8	45.5	9.0
Kasur	32.0	25.0	1.4	2.0	25.9	25.9	84.6	7.5
Faisalabad	34.9	22.7	72.9	34.4	35.8	23.9	69.2	0.0
Jhang	22.4	34.4	59.2	0.0	36.3	25.3	56.9	0.0
Toba Tek Singh	34.9	17.8	81.0	5.0	36.6	26.5	84.3	0.0

Chiniot	40.2	26.0	54.0	0.0	43.3	30.0	29.0	0.0
Sargodha	37.0	26.0	67.0	70.0	38.0	28.0	70.0	0.0
Khushab	34.5	21.5	72.0	0.0	25.5	38.5	75.0	68.0
Mianwali	34.0	19.0	0.7	2.0	33.5	19.2	71.2	3.0
Bhakkar	37.0	22.0	50.0	0.0	36.0	21.0	48.0	0.0
Multan	40.4	30.3	61.6	1.4	35.7	26.3	61.8	6.4
Khanewal	38.3	30.3	51.6	0.4	37.1	27.7	74.4	1.5
Vehari	38.3	27.3	65.2	2.3	33.0	21.3	79.8	7.0
Lodhran	39.9	30.0	57.9	2.0	34.4	27.6	72.1	4.7
Sahiwal	36.7	27.6	73.0	18.0	34.5	26.7	78.5	28.0
Pakpattan	36.3	27.4	75.4	6.0	36.2	27.5	75.6	11.0
Okara	36.1	26.3	78.3	26.0	37.2	28.2	71.2	5.0
Bahawalpur	41.2	29.2	57.9	1.2,	36.5	26.6	73.1	57.2
Bahawalnagar	38.0	28.1	66.8	2.0	36.1	26.1	78.1	147.0
R.Y.Khan	39.5	28.8	52.5	0.0	36.9	27.4	70.8	0.0
D.G. Khan	39.4	30.9	58.3	5.0	42.1	25.5	30.0	6.0
Muzaffar Garh	41.2	29.5	58.6	12.0	40.5	29.5	46.8	5.0
Rajanpur	39.8	31.5	59.5	3.0	36.5	28.2	71.1	4.0
Layyah	42.0	29.0	50.0	4.0	48.0	23.0	72.0	14.0
TOT/AVG	36.83	26.55	58.15	720.7	36.39	26.47	63.08	634.0

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%. Keeping in view the temperature for current week and weather forecast of next week, it is predicted that population of this pest may decrease during the coming week as the temperature remain not favorable for the development of this pest.

Leaf Folder: This pest flourishes best in warm humid climate with optimum temperature 25-30°C. Keeping in view the temperature for current week and weather forecast of next week, it is predicted that population of this pest may decrease during the coming week as the temperature remain not favorable for the development of this pest.

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

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view the temperature for current week and weather forecast of next week, it is

predicted that population of this pest may decrease 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 decrease 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%. Keeping in view the temperature

for current week and weather forecast of next week, it is predicted that population

of this pest may decrease during the coming week as the temperature remain not

favorable for the development of this pest.

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. 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 favorable

for the development of this 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%. Keeping in view the

temperature for current week and weather forecast of next week, it is predicted that

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population of this pest may increase during the coming week as the temperature

remain favorable for the development of this 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%. 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 favorable for the development of this

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%. 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 favorable for the development of this

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. 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 favorable for the development of this

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