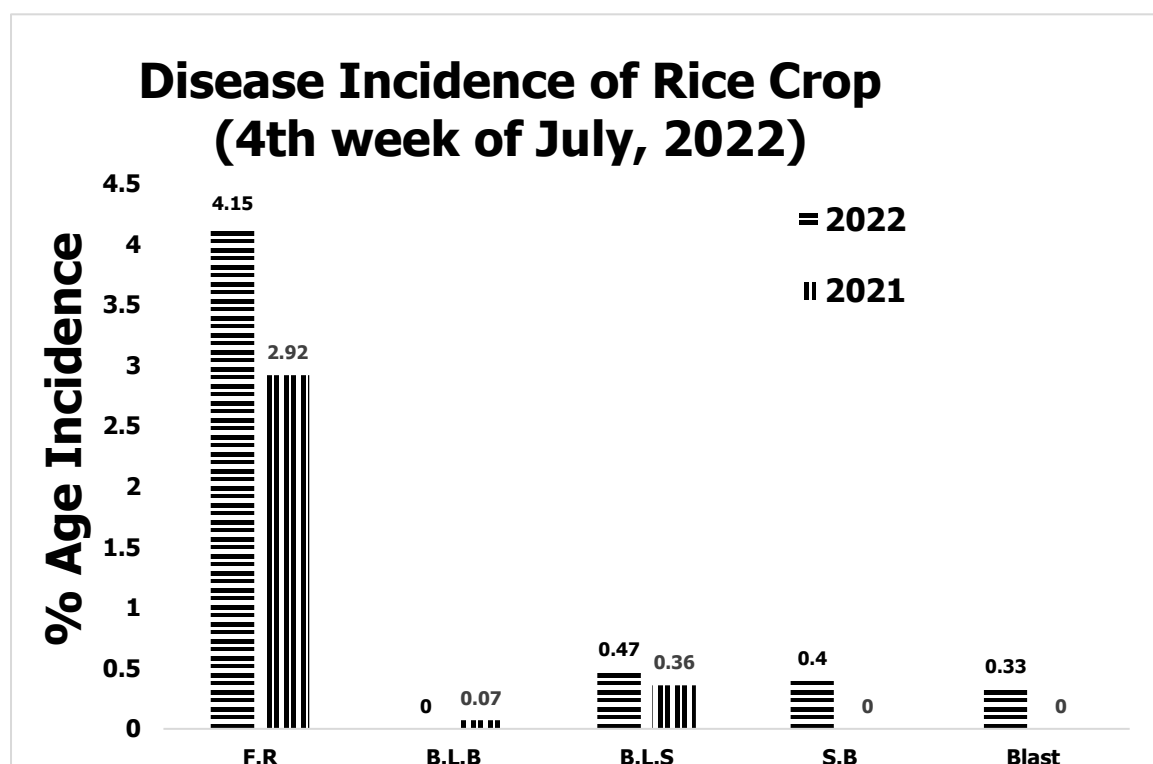
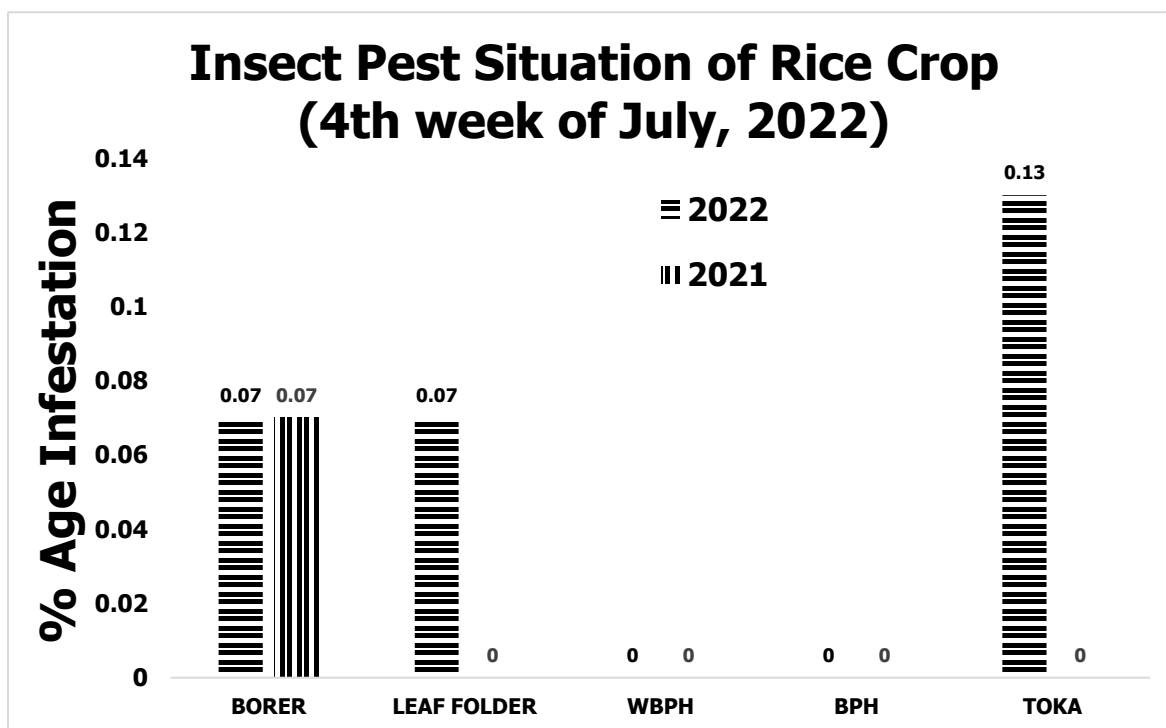


**PEST SITUATION ON RICE CROP IN PUNJAB
DURING 4TH WEEK OF JULY, 2022
DEPARTMENT OF PEST WARNING & QCP, PUNJAB**



PEST SITUATION ON RICE CROP IN PUNJAB DURING 4TH WEEK OF JULY, 2022

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	0.07	4.21	0.16	4.11	0.07	3.06	Sustaining
2	LEAF FOLDER	0.07	2.54	0.00	1.69	0.00	1.56	Increasing
3	WPBH	0.00	0.00	0.00	0.00	0.00	0.00	-
4	BPH	0.00	0.00	0.00	0.00	0.00	0.00	-
5	TOKA	0.13	8.49	0.24	7.82	0.00	12.73	Increasing
6	FOOT ROT	4.15	-	3.71	-	2.92	-	Increasing
7	B.L.B	0.00	-	0.08	-	0.07	-	Decreasing
8	B.L.S	0.47	-	0.24	-	0.36	-	Increasing
9	SHEATH BLIGHT	0.40	-	0.08	-	0.00	-	Increasing
10	BLAST	0.33	-	0.24	-	0.00	-	Increasing
NO. OF TOTAL SPOTS VISITED			1495					
TOTAL AREA VISITED (Acres)			12571					

Tehsil wise percentage of hot spots of Rice Borer

Sr.	TEHSIL	%AGE
1	Multan	5.56

Tehsil wise percentage of hot spots of Rice Leaf Folder

Sr.	TEHSIL	%AGE
1	Shujabad	16.67

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

Nil

Tehsil wise percentage of hot spots of Brown Plant Hopper

Nil

Tehsil wise percentage of hot spots of Rice Toka

Sr.	TEHSIL	%AGE
1	Lahore	2.9

Tehsil wise percentage of hot spots of Foot Rot

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Narowal	35.3	15	Sambrial	6.7
2	Sahiwal	25.0	16	Pasrur	6.7
3	Bhalwal	20	17	Sialkot	6.3
4	Hafizabad	18.2	18	Chunian	5.7
5	Noshehra Virkan	17.4	19	Pattoki	5.7
6	Shakargarh	16.7	20	Daska	5.0

7	Shahpur	14.3	21	Lahore	4.5
8	Pindi Bhattian	13.8	22	M.B.Din	4.2
9	Nankana Sahib	12.5	23	Ferozwala	3.9
10	kamoke	11.8	24	Baddomalhi	3.1
11	Sangla Hill	11.8	25	Gujrat	2.5
12	Phalia	10.5	26	Sheikhupura	2.2
13	Gujranwala	10.0	27	Zafarwal	1.8
14	Shahkot	6.8			

Tehsil wise percentage of hot spots of Bacterial Leaf Blight

Nil

Tehsil wise percentage of hot spots of Brown Leaf Spots

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Kabirwala	66.7	4	Ferozwala	1.96
2	Phalia	10.5	5	Lahore	1.5
3	Kamalia	2.44			

Tehsil wise percentage of hot spots of Sheath Blight

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Phalia	10.5	4	Noshehra Virkan	4.3
2	Gujranwala	5.0	5	Wazirabad	4.2
3	Pakpattan	4.5			

Tehsil wise percentage of hot spots of Rice Blast

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Depalpure	15.8	3	Chunian	2.9
2	Phalia	5.3			

Meteorological data of the current week 2022

METEOROLOGICAL DATA FOR 4TH WEEK OF JULY 2022								
Districts	2022				2021			
	Temperature		R.H%	Rainfall (mm)	Temperature		RH%	Rainfall (mm)
	Max.	Min.			Max.	Min.		
Gujranwala	36.8	27.5	75.5	64.0	38.75	28.45	62.15	142
Hafizbad	35.0	29.0	78.0	98.0	38.0	29.0	61.0	110
Sialkot	38.0	31.8	65.0	42.0	37.0	29.0	50.7	40
Narowal	31.2	20.8	89.8	225.0	34	24	82.47	18
Gujrat	34.0	25.0	72.0	149.0	36.8	28.1	53.0	113
M.B.Din	33.0	21.4	0.7	65.0	34.0	23.0	59.0	39
Lahore	32.5	26.1	79.8	23.1	14.33	11.22	33.61	3
Sheikhupura	35.7	24.6	61.0	224.0	37.5	25.6	58.7	110
Nankana	32.6	26.3	59.7	19.2	40.0	31.0	55.0	55
Kasur	31.9	25.6	83.9	3.9	30.85	24.71	51.57	7
Faisalabad	34.1	26.5	80.4	162.2	36.3	26.8	88.3	88
Jhang	35.1	26.5	79.4	32.0	37.0	23.9	50.3	0
Toba Tek Singh	35.6	26.7	87.4	13.0	38.49	25.5	84.38	55
Chiniot	34.9	26.6	82.4	0.0	37.2	25.4	74.3	0
Sargodha	31.0	26.0	88.0	20.0	40.0	38.0	75.0	0
Khushab	32.5	25.5	82.0	44.0	38	25	65	0
Mianwali	35.1	26.5	79.4	32.0	37.0	23.9	50.3	0
Bhakkar	37.2	29.5	70.0	14.0	37.5	28.3	65.0	0
Multan	34.9	26.4	77.4	8.8	39.5	31	70.12	0
Khanewal	31.9	26.9	78.5	3.4	39.3	29.9	61.9	0
Vehari	33.4	26.9	83.1	8.1	38.0	30.6	62.7	0
Lodhran	31.7	24.4	80.4	13.4	40.4	29.7	70.1	0
Sahiwal	35.0	25.0	88.0	46.8	36.0	29.0	73.0	0
Pakpattan	34.6	26.2	86.0	35.5	37.0	30.0	71.0	0
Okara	36.2	26.4	85.5	35.3	35	28	71	0
Bahawalpur	34.8	25.8	86.6	135.3	39.7	29.3	58.8	10
Bahawalnagar	35.3	28.5	69.4	53.0	40.6	29.4	57.2	0
R.Y.Khan	32.0	26.0	75.7	39.6	39.57	29.71	50.28	0
D.G. Khan	34.0	27.4	74.5	28.1	41.4	30.3	59.6	0
Muzaffar Garh	34.4	21.4	70.0	30.0	42.3	31.3	32.3	0
Rajanpur	33.0	27.6	61.8	30.0	40.62	30.28	53.4	0
Layyah	44.0	20.0	89.0	81.3	45.7	30.9	57.1	24
TOT/AVG	34.41	25.96	75.63	55.59	37.43	27.82	61.51	25.46

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 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 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 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 3-4 inches 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

