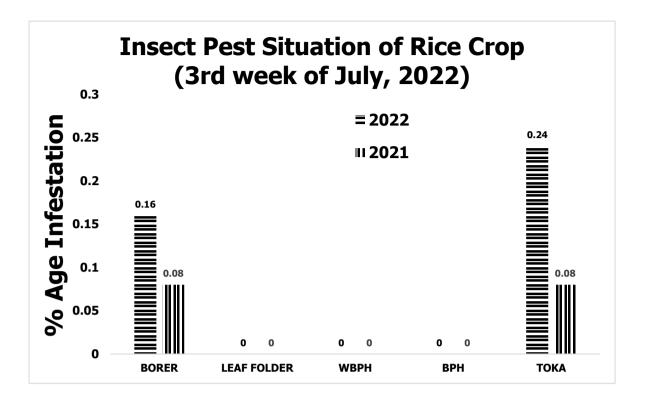
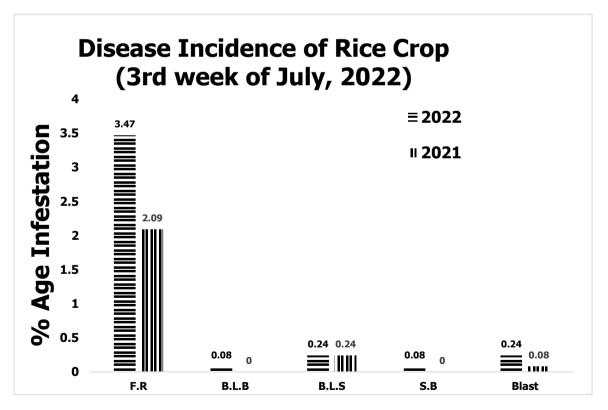
GRAPHICAL PEST SITUATION ON RICE CROP IN PUNJAB DURING 3RD WEEK OF JULY, 2022





PEST SITUATION ON RICE CROP IN PUNJAB DURING 3RD WEEK

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	Pest Situation of Rice Pests										
%Age of spots											
Sr. No.	Pest Name	Current Week		t Week Previous Week Corresponding week of Last Year		•	Remarks				
INO.		AETL	BETL	AETL	BETL	AETL	BETL	7			
1	RICE BORER	0.16	4.11	0.10	3.90	0.08	2.09	Increasing			
2	LEAF FOLDER	0.00	1.69	0.00	1.20	0.00	1.77	-			
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	ТОКА	0.24	7.58	0.00	7.89	0.08	9.73	Increasing			
6	FOOT ROT	3.47	-	2.40	-	2.09	-	Increasing			
7	B.L.B	0.08	-	0.10	-	0.00	-	Increasing			
8	B.L.S	0.24	-	0.00	-	0.24	-	Sustaining			
9	SHEAT H BLIGHT	0.08	-	0.00	-	0.00	-	Increasing			
10	BLAST	0.24	-	0.00	-	0.08	-	Increasing			
-	O. OF TOTAL SPOTS V	-		.240							
TOTAL AREA VISITED (Acres)			8	837							

OF JULY, 2022

Tehsil wise percentage of hot spots of Rice Borer

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	M.B.Din	5.9	2	Lahore	2.0

Tehsil wise percentage of hot spots of Rice Leaf Folder

Nil

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	Sr.	TEHSIL	%AGE
1	Phalia	10	3	Lahore	2.0
2	Malikwal	9.1			

Tehsil wise percentage of hot spots of Foot Rot

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Vehari	20.0	12	Sambrial	7.7
2	Lahore	18.4	13	Shahkot	7.7
3	Shakargarh	17.2	14	Kot Momin	7.7
4	Hafizabad	16.7	15	Pindi Bhattian	6.7
5	Sangla Hill	16.7	16	M.B.Din	5.9
6	Narowal	11.1	17	Lalian	4.3
7	Nankana Sahib	10.3	18	Chunian	3.0

					3
8	Noshehra Virkan	10.0	19	Ferozwala	2.9
9	Pasrur	10.0	20	Pattoki	2.9
10	Phalia	10.0	21	Jaranwala	2.4
11	Sialkot	9.4			

Tehsil wise percentage of hot spots of Bacterial Leaf Blight

Sr.	TEHSIL	%AGE
1	MB Din	5.88

Tehsil wise percentage of hot spots of Brown Leaf Spots

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Phalia	10	3	Lahore	2.04
2	Malikwal	20			

Tehsil wise percentage of hot spots of Sheath Blight

Sr.	TEHSIL	%AGE
1	MB Din	5.88

Tehsil wise percentage of hot spots of Rice Blast

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Bhakkar	6.67	3	Shahpur	14.29
2	Depalpur	11.76			

Meteorological data of the current week 2022

METEOROLOGICAL DATA FOR 3RD WEEK OF JULY 2022								
		2022				20	21	
Districts	Temperature		R.H%	Rainfall	Tempera	ture	RH%	Rainfall
	Max.	Min.	К.П%0	(mm)	Max.	Min.	KU.20	(mm)
Gujranwala	38.5	28.5	75.5	10.0	40.75	30.25	55.58	8.4
Hafizbad	37.5	30.0	62.0	0.0	42.0	33.0	57.0	0.0
Sialkot	38.0	31.8	65.0	42.0	37.0	29.0	50.7	40
Narowal	32.3	20.7	81.7	40.0	34.8	22.4	74.9	42
Gujrat	35.4	26.6	72.0	4.0	35	26	65	36
M.B.Din	37.3	27.0	0.4	10.0	35.1	25.0	0.5	13
Lahore	14.4	10.4	26.1	1.0	15.2	11.3	23.9	0.3
Sheikhupura	36.5	26.2	56.0	24.0	35.7	26.51	55	26
Nankana	33.0	25.8	45.5	9.0	41.0	33.0	44.0	14
Kasur	34.7	26.4	66.7	6.0	35.1	16.3	64.0	2.3
Faisalabad	36.0	26.8	73.0	6.0	35.5	26.5	89.8	8.4
Jhang	36.9	27.7	67.4	4.7	38.13	26.98	58.45	0.0
Toba Tek Singh	36.6	27.3	83.2	4.8	37.9	29.3	75.8	7.0
Chiniot	41.0	32.2	56.8	0.0	40.8	33.6	55.8	0.0
Sargodha	31.0	26.0	88.0	20.0	40	38	75	0.0
Khushab	37.2	26.1	16.8	78.5	40.5	30.7	66.6	0.0
Mianwali	36.9	27.7	67.4	4.7	38.13	26.98	58.45	0.0
Bhakkar	43.2	32.4	48.0	6.0	40.5	28.3	40.0	0.0
Multan	35.7	26.3	61.8	6.4	39.0	31.3	71	0.0
Khanewal	37.1	27.7	74.4	1.5	39.9	29.6	63.3	0.0
Vehari	34.4	27.6	72.1	4.7	38.6	30.0	60.9	0.0
Lodhran	33.0	21.3	79.8	7.0	40.6	29.6	71.1	0.0
Sahiwal	34.5	26.7	78.5	28.0	38.0	28.0	67.0	0.0
Pakpattan	36.2	27.5	75.6	11.0	39.0	29.0	62.0	0.0
Okara	37.2	28.2	71.2	5.0	40.0	30.0	61.0	0.0
Bahawalpur	36.2	27.5	75.6	11.0	39	29	62	0.0
Bahawalnagar	35.3	26.0	75.1	8.3	40.1	30.0	55.9	0.0

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

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R.Y.Khan	41.0	32.2	56.8	0.0	40.8	33.6	55.8	0.0
D.G. Khan	41.0	31.0	65.0	14.0	44	34	45	2
Muzaffar Garh	34.4	21.4	70.0	30.0	42.3	31.3	35.0	0.0
Rajanpur	36.8	27.8	60.0	12.0	43.7	32.1	38.0	0.0
Layyah	48.0	23.0	72.0	14.3	39.1	27.6	41.0	1.0
Tot/Avg	36.16	26.68	63.73	13.25	38.35	28.69	56.23	6.26

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 <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. 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 3-4inches 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,	0.5% attack on rice nursery while 8-10 Moth/Trap/Night & 5% dead heart on	
Yellow & Pink)	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	
Leai Poluei	September-October.	
Brown Plant Hopper	15 Nymphs or Adults per plant in July-August & 20 Nymphs or Adults per	
brown r faitt rropper	plant in September-October. Or 7-10 Nymphs or Adults per net	
White Backed Plant	15 Nymphs or Adults per plant in July-August & 20 Nymphs or Adults per	
Hopper	plant in September-October. Or 7-10 Nymphs or Adults per net	
Hispa	1 per plant	
Diseases	On appearance	