

PEST SITUATION ON RICE CROP IN THE PUNJAB DURING 2ND WEEK OF AUGUST, 2018

TEHSIL WISE PEST SITUATION ON RICE CROP

Rice Borers:

On overall Punjab basis 0.00% spots above ETL of Rice Borers have been observed as compared to 0.08% spots during the same corresponding period of last year, whereas 5.28% spots below ETL have been observed as compared to 3.94% spots during the same corresponding period of last year.

Rice leaf folder:

On overall Punjab basis 0.16% spots above ETL of Rice Borers have been observed as compared to 0.00% spots during the same corresponding period of last year, whereas 6.80% spots below ETL have been observed as compared to 3.55% spots during the same corresponding period of last year.

Toka:

On overall Punjab basis 0.16% spots above ETL of Toka have been observed as compared to 0.00% spots during the same corresponding period of last year, whereas 11.12% spots below ETL have been observed as compared to 6.88% spots during the same corresponding period of last year.

Foot Rot:

On overall Punjab basis symptoms of Foot Rot have been recorded on 4.00% spots during the week under report as compared to 4.10% spots during the same corresponding period of last year.

Bacterial Blight:

On overall Punjab basis symptoms of Bacterial Blight have been recorded on 0.00% spots during the week under report as compared to 0.23% during the same corresponding period of last year.

Brown Leaf Spot:

On overall Punjab basis symptoms of Brown Leaf Spot have been recorded on 0.72% spots during the week under report as compared to 0.46% during the same corresponding period of last year.

METEOROLOGICAL DATA OF THE WEEK

Districts	2018				2017			
	Temperature		R.H%	Rainfall (mm)	Temperature		R.H%	Rainfall (mm)
	Max.	Min.			Max.	Min.		
Gujranwala	37.88	26.71	59.91	2.5	35.84	26.78	51.24	0
Hafizabad	35.87	27.25	60.87	4	36.12	27.87	50.25	0.2
Sialkot	36.2	26.96	62.2	6.99	36.1	26.81	52.2	0
Narowal	32.24	22.57	85.5	0	33	22.57	89.50	48
Gujrat	33.25	23.2	0.29	3.2	34.1	26.96	0.555	10
M.B.Din	35	26	62	5	33	20	60	28
Lahore	29.14	22.61	71.25	0	38	26.42	53.14	0
Sheikhupura	29	24	74	0	39	28	60	0
Kasur	32.42	26.57	73.57	0	38	26.86	60.93	2.64
Nankana	34.42	26	70.57	12	38.28	27.28	53.57	0
Faisalabad	36.7	27.9	74.4	1.2	38.7	28.01	73.6	55
Jhang	40.43	28.57	49.29	0	39.43	28.29	55.86	22
T.T.Singh	36.24	28.44	79.29	0	38.48	29.62	70.17	0
Pakpattan	35.14	28.142	61.14	0	35.14	28.71	62.57	0
Okara	36.5	28.2	81	0	39.3	29.3	78	0
Bahawalnagar	39.28	28.52	57.14	0	41.57	27.85	51	0
TOT/AVG	34.98	26.35	63.9	34.89	37.13	26.96	57.66	165.84

FORECAST FOR THE NEXT WEEK

Weather forecast

Following weather forecast is mentioned below for the coming week.

Lahore Division

For the coming week the minimum temperature is 25°C and maximum temperature is 39°C with relative humidity 66% & chance of rainfall is 39%.

Gujranwala Division

For the coming week the minimum temperature is 26°C and maximum temperature is 42°C with relative humidity 59% & chance of rainfall is 47%.

Faisalabad Division

For the coming week the minimum temperature is 27°C and maximum temperature is 43°C with relative humidity 55% & chance of rainfall is 49%.

Sargodha Division

For the coming week the minimum temperature is 25°C and maximum temperature is 43°C with relative humidity 54% & chance of rainfall is 60%.

PEST FORECAST

Rice borers:

In the prevailing weather conditions it is predicted that borers attack may increase during the next week.

Toka:

Owing to current weather conditions and its presence on alternate host plants /weeds it is forecast that its attack may increase during the next week.

Leaf folder:

In the current weather conditions it is forecast that its attack may sustain/ increase during the next week.

Foot Rot:

In the current weather conditions, it is forecast that its incidence may increase during the next week.

Bacterial leaf blight (BLB):

In the prevailing weather conditions, it is expected that its incidence may increase/ sustain during the coming week.

Brown leaf spot (BLS):

Owing to prevailing weather conditions, it is predicted that its incidence may increase during the coming week.

RECOMMENDATIONS

Borers Management

- Use balanced fertilizers at recommended rate and time of application.
- Conduct regular Pest Scouting of crop.
- Control the pest without delay when population reaches ETL i.e., 5.0% Dead-hearts on rice crop with one of the following pesticides;

S#	Common Name	Brand Name	Dose / Acre
1	Cartap 4 G	Padan, Kadan, Rezex, Hoopo, Cruise	9 kg
2	Chlorantraniliprole+ Thiamethoxin 0.6 G	Virtako 0.6 G	4 kg
3	Chlorantraniliprole 0.4 G	Ferterra 0.4 G	4 kg
4	Fipronil 5% SC	Faprite, Refree, Rignil	480 ml
5	Fipronil 0.4% G	Refree, Rector	6 kg
5	Fipronil 80 wg	Reagent 80 WG	30 gm
6	Monomehyo 5 G	Hypo 5 % G	7 kg

Rice Leaf Folder Management

- Apply nitrogen fertilizer in split doses following the recommended rate and time of application.
- Conduct regular pest scouting of rice Leaf Folder.
- The infestation starts from shady places, and do the spot treatment to avoid/check the spreading of this pest.
- Control the pest without delay when population reaches ETL i.e., 2 folded leaves/ plant.
- If invasion reaches ETL, then control the pest with one of the following pesticides;

S#	Common Name	Brand Name	Dose / Acre
1	Cartap Hydro Chloride 4 G	Padan, Kadan, Rezex, Hoopo, Cruise	9 kg
2	Chlorantraniliprole+ Thiamethoxim o.6 G	Virtako	4 kg
3	Chlorantraniliprole o.4 G	Ferterra	4 kg
4	Chlorantraniliprole 20 SC	Coragen	50 ml
5	Lambda Cyhalothrin 2.5 EC	Krate, Boxer, Kangroo	160 ml
6	Alpha cypermethrin 5EC	Fastac	200 ml
7	Carbosulfan 20 EC	Advantage	500 ml
8	Triazophos 40 EC	Hostathion	600 ml
9	Deltamethrin +Dimethoate	Decis-D	400 ml
10	Spintoran 120 SC	Radiant	40 ml

Toka Management

- Keep the bunds of fields free from weeds.
- Conduct regular pest scouting of Toka.
- Control the pest without delay when population reaches ETL i.e., 3 per sweep on rice crop.
- If invasion reaches ETL, then control the pest with one of the following pesticides.

S#	Common Name	Brand Name	Dose / Acre
1	Cartap Hydro Chloride 4 G	Padan, Kadan, Rezex, Hoopo, Karuz	9 kg
2	Bifenthrin 10EC	Talstar	250 ml
3	Lambda Cyhalothrin 2.5 EC	Karate, Boxer, Kangroo	250 ml

Foot Rot Management

- For management of Foot Rot/ Bakane, apply urea in split doses. Also make use of Sulphate of Potash fertilizer in Rice Crop as per recommendations
- Soil amendment with organic matter also helps to control soil-borne infection.

Brown Leaf Spot Management

- Control the pest 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

Bacterial Leaf Blight Management

- Use disease free seeds for next crop.
- Spray copper based fungicides.

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.
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