

## **PEST SITUATION ON RICE CROP IN THE PUNJAB DURING 1ST WEEK OF SEPTEMBER, 2018**

**RICE BORERS:** On overall Punjab basis 0.08% spots above ETL of Rice Borers have been observed as compared to 0.09% spots during the same corresponding period of last year, whereas 5.93% spots below ETL have been observed as compared to 5.57% spots during the same corresponding period of last year.

**RICE LEAF FOLDER:** On overall Punjab basis 2.08% spots above ETL of Rice Borers have been observed as compared to 0.00% spots during the same corresponding period of last year, whereas 10.02% spots below ETL have been observed as compared to 7.23% spots during the same corresponding period of last year.

**TOKA:** On overall Punjab basis 0.40% spots above ETL of Toka have been observed as compared to 0.94% spots during the same corresponding period of last year, whereas 14.42 % spots below ETL have been observed as compared to 8.11% spots during the same corresponding period of last year.

**RICE HOPPERS:** On overall Punjab basis 0.0% spots above ETL of Toka have been observed as compared to 0.0% spots during the same corresponding period of last year, whereas 0.32% spots below ETL have been observed as compared to **0.72%** spots during the same corresponding period of last year.

**FOOT ROT:** On overall Punjab basis symptoms of Foot Rot have been recorded on **3.29%** spots during the week under report as compared to 3.58% spots during the same corresponding period of last year.

**BACTERIAL BLIGHT:** On overall Punjab basis symptoms of Bacterial Blight have been recorded on 0.24% spots during the week under report as compared to 0.24% during the same corresponding period of last year.

**BROWN LEAF SPOT:** On overall Punjab basis symptoms of Brown Leaf Spot have been recorded on 2.32% spots during the week under report as compared to 0.48% during the same corresponding period of last year.

**SHEATH BLIGHT:** On overall Punjab basis symptoms of Sheath Blight have been recorded on 0.16% spots during the week under report as compared to 0.0% during the same corresponding period of last year.

**RICE BLAST:** On overall Punjab basis symptoms of Rice Blast have been recorded on 0.24% spots during the week under report as compared to 0.00% during the same corresponding period of last year.

### **FORECAST FOR THE NEXT WEEK**

#### **WEATHER FORECAST**

Following weather forecast is mentioned below for the coming week.

##### **Lahore Division**

Following weather forecasting is mentioned for the coming week as minimum temperature are 25°C and maximum temperature are 33°C with relative humidity 59% & Chance of Rainfall 10%.

##### **Gujranwala Division**

Following weather forecasting is mentioned for the coming week as minimum temperature are 24°C and maximum temperature are 36°C with relative humidity 65% & Chance of Rainfall 30%.

##### **Faisalabad Division**

Following weather forecasting is mentioned for the coming week as minimum temperature are 29°C and maximum temperature are 37°C with relative humidity 45% & Chance of Rainfall 15%.

##### **Sargodha Division**

Following weather forecasting is mentioned for the coming week as minimum temperature are 26°C and maximum temperature are 41°C with relative humidity 41% & Chance of Rainfall 4%.

#### **PEST FORECAST**

**RICE BORERS:** In the prevailing weather conditions it is predicted that borers attack may increase during the next week in districts of Gujrat, Sheikhupura, Nankana, Kasur, Faisalabad, Chiniot, T.T.Singh, Okara, Pakpattan, Bahawalnagar and Sargodha.

**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 in districts of Gujrawala, Gujrat, Sialkot, Narowal, M.B.Din, Lahore, Sheikhupra, Ferozwala, Kasur, Chiniot, Faisalabad, Jhang, T.T.Sing, Sargodha and Bahawalnagar.

**LEAF FOLDER:** In the current weather conditions it is forecast that its attack may Sustain/ increase during the next week in districts of Gujrat, Sialkot, Narowal, M.B.Din, Lahore, Sheikhpura, Ferozwala, Kasur, Nankana, Chiniot, Faisalabad, Jhang, T.T.Sing, Sargodha and Bahawalnagar.

**HOPPER:** In the current weather conditions it is forecast that its attack may Sustain/ increase during the next week may increase in Narowal and Lahore.

**FOOT ROT:** In the current weather conditions, it is forecast that its incidence may increase during the next week in districts of Hafizabad, M.B.Din, Sheikhpura T.T.Sing and Sargodha.

**BACTERIAL LEAF BLIGHT (BLB):** In the current weather conditions, it is forecast that its incidence may increase during the next week in districts of Narowal and Jhang.

**BROWN LEAF SPOT (BLS):** Owing to prevailing weather conditions, it is predicted that its incidence may increase during the coming week in districts of Gujranwala, Hafizabad, Sialkot, Narowal, Lahore, Pakpattan and Bahawalnagr

**BLAST:** Owing to prevailing weather conditions, it is expected that its incidence may increase/ during the coming week in district

## 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%** 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	Monomehypo 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 it 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/ Bakanae, 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.

## PADDY BLAST MANAGEMENT

- For leaf blast, relood if field has been drained. Maintain water level at 4 -6 inches to ensure that soil is covered.
- Do not over fertilize with nitrogen.
- Control the pest with one of the following pesticides

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	100 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.
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