

## PEST SITUATION ON RICE CROP IN PUNJAB DURING 3<sup>RD</sup> WEEK OF JULY, 2019

**RICE BORERS:** On overall Punjab basis 0.08% spots above ETL of Rice Borers have been observed as compared to 0.00% spots during the same corresponding period of last year, whereas 0.90% spots below ETL have been observed as compared to 1.19% spots during the same corresponding period of last year. It is also predicted that its infestation may be increased in coming days.

**RICE LEAF FOLDER:** On overall Punjab basis 0.00% spots above ETL of Rice Leaf folder have been observed as compared to 0.37% spots during the same corresponding period of last year, whereas 0.00% spots below ETL have been observed as compared to 1.65% spots during the same corresponding period of last year. It is also predicted that its infestation may be increased in coming days.

**WHITE-BACKED PLANT HOPPER:** The infestation of this insect has not yet been reported this year and neither was it reported during the corresponding period of last year.

**BROWN PLANT HOPPER:** The infestation of this insect has not yet been reported this year and neither was it reported during the corresponding period of last year.

**TOKA:** On overall Punjab basis 0.08% spots above ETL of Toka have been observed as compared to 0.00% spots during the same corresponding period of last year, whereas 2.71% spots below ETL have been observed as compared to 8.25% spots during the same corresponding period of last year. It is also predicted that its infestation may be increased in coming days.

**FOOT ROT:** On overall Punjab basis symptoms of Foot rot have been recorded, 3.85% spots during the week under report as compared to 0.82% spots during the same corresponding period of last year. It is also predicted that its incidence may be increased in coming days.

### Tehsil wise percentage of hot spots of Foot rot

Sr.	TEHSIL	%AGE
1	KHANEWAL	18
2	GUJRAT	13
3	NAROWAL	9.6
4	GUJRANWALA	8.6
5	M.B.DIN	8.6
6	SIALKOT	6.4
7	SARGODHA	4.7
8	SHEIKHUPURA	3.7
9	HAFIZABAD	3.2

**BACTERIAL LEAF BLIGHT:** On overall Punjab basis symptoms of Bacterial Blight have been recorded on 0.0% spots during the week under report as compared to 0.0% during the same corresponding period of last year. It is also predicted that its incidence may be increased in coming days.

**BROWN LEAF SPOTS:** On overall Punjab basis symptoms of Brown Leaf Spot (BLS) have been recorded on 0.0% spots during the week under report as compared to 0.1% during the same corresponding period of last year. It is also predicted that its incidence may be increased in next coming days.

**SHEATH BLIGHT:** On overall Punjab basis symptoms of Sheath Blight have been recorded on 0.0 % spots during the week under report as compared to 0.0% during the same corresponding period of last year. It is also predicted that its incidence may be increased in next coming days.

**BLAST:** On overall Punjab basis symptoms of Rice Blast have been recorded on 0.0% spots during the week under report as compared to 0.0% during the same corresponding period of last year. It is also predicted that its incidence may be increased in next coming days.

## Meteorological data of the current week 2019-2020

METEOROLOGICAL DATA FOR THE 3RD WEEK OF JULY 2019 RICE ZONE								
Districts	2019				2018			
	Temperature		R.H%	Rainfall (mm)	Temperature		RH%	Rainfall (mm)
	Max.	Min.			Max.	Min.		
Gujranwala	34.7	26.63	41.58	0.5	34.68	26.51	42.17	12
Hafizabad	34.67	26.5	32.83	1	35.42	27	43.14	20
Sialkot	40.05	34.8	45.62	28.0	37.2	29.6	49.7	5.0
Narowal	33.9	23.7	79.4	36.0	34.9	24.4	79.9	14.2
Gujrat	38.0	26.0	68.0	31.0	36.4	26.7	58.0	5.0
M.B.Din	40.1	24.1	54.2	36.3	39	27	48	30.8
Lahore	32	24	80	0	33.25	25.875	81.125	0
Sheikhupura	36.71	25.81	68	99.0	35.81	26.21	66	18
Ferozwal	29.7	25.58	75.5	40.8	34.67	27.7	76.68	51
Nankana	31.43	23.71	70	15.29	33.86	28	75.5	3
Kasur	31.4	27.8	68.8	38.6	34	27	72.6	0.0
Faisalabad	33.8	28.6	79.1	7.1	40.5	30	54	0
Jhang	38.5	29	60	0.4	41	29	48	0
Toba Tek Singh	42.28	29.3	62.71	0.0	33.7	25.1	84.6	34.3
Sargodha	44.83	31	27	0.0	43.0	30.0	31.0	0.0
Multan	38	30.143	71.929	0.0	37.8	30.1	69.1	5.0
Khanewal	37.625	29.125	67.375	3.5	40.0	31.1	45.3	0.0
Vehari	38.125	29.375	70.563	15.0	37.0	30.0	47.7	40.0
Lodhran	39.571	30.286	60.571	0.0	39.4	27.4	35.8	0.0
Sahiwal	41.2	26.888	67.313	20.0	38.6	28.2	67.1	2.0
Pakpattan	41.125	32.375	31.75	6.0	41.9	33.0	29.3	0.0
Okara	40	28	60	5.0	37.9	28.5	80.0	0.0
Bahawalpur	38.986	29.414	58.143	0.0	39.6	29.2	51.0	41.6
Bahawalnagar	39.143	27.643	61.5	1.1	40.6	27.9	60.3	0.5
R.Y.Khan	40.56	28.33	72.89	8.4	40.8	30.1	73.8	0.0
D.G. Khan	40	29.86	59.36	9.0	41.1	29.9	54.1	10.0
Muzaffar Garh	38	27.229	53.417	0.0	35.9	28.7	50.6	3.0
Rajanpur	40.36	29.78	62.9	10.0	39.4	27.9	64.8	8.0
Layyah	36.5	26.6	44	34.0	44.5	33.0	41.3	0.0
<b>TOT/AVG</b>	<b>37.63</b>	<b>27.99</b>	<b>60.5</b>	<b>15.38</b>	<b>38</b>	<b>28.45</b>	<b>57.95</b>	<b>10.46</b>

### RECOMMENDATION

#### BROWN HOPPER MANAGEMENT

- Keep the fields dry for 2 to 3 days. It will reduce the population of this pest.
- Keep drying and wetting of fields alternatively at 10 days intervals starting from 30-days after transplanting, it will drastically reduce the population of W.B.P.H. in contrast to continuous standing water.
- Drain out irrigation water in the field for 3 to 4 days.
- Install yellow colored traps/ Light traps for monitoring and control of hoppers.

- Use hand net to control hopper.
- Remove weeds from the field and surrounding areas.
- Avoid indiscriminate use of insecticide, which destroys natural enemies.
- Use a resistant variety. Contact your local agriculture office for an up-to-date list of available varieties.
- Look for BPH daily in the seedbed, or weekly in the field, on stems and the water surface. Check each side of the seed bed (or direct-seeded fields). For older rice plants, grasp the plant, bend it over slightly, and gently tap it near the base to see if plant hoppers fall onto the water surface. For transplanted rice look at bases of 10 to 20 hills as you cross the field diagonally.

### **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, reflood if field has been drained. Maintain water level at 3-4 inches to ensure that soil is covered.
- 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	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