

PEST SITUATION ON RICE CROP IN PUNJAB DURING 4TH WEEK OF SEPTEMBER, 2018

RICE BORERS: On overall Punjab basis 0.08% spots above ETL of Rice Borers have been observed as compared to 0.05% spots during the same corresponding period of last year, whereas 3.22% spots below ETL have been observed as compared to 3.61% spots during the same corresponding period of last year. It is also predicted that its infestation may be decreased in next coming days.

Tehsil wise percentage of hot spots of rice borer.

Sr.	TEHSIL	%AGE
1	Pakpattan	5.0

RICE LEAF FOLDER: On overall Punjab basis 0.68% spots above ETL of Rice Leaf folder have been observed as compared to 2.30% spots during the same corresponding period of last year, whereas 8.93% spots below ETL have been observed as compared to 7.64% spots during the same corresponding period of last year. It is also predicted that its infestation may be decreased in next coming days.

Tehsil wise percentage of hot spots of Rice Leaf folder

Sr.	TEHSIL	%AGE
1	Bahawalnagar	14.29
2	A.P.Sial	6.67
3	Shorkot	5.88
4	Sharqpur	4.55
5	Safdarabad	4.17
6	Nankana Sahib	4.17
7	Muridke	4.00
8	Minchinabad	3.57
9	Depalpur	1.45

WHITE-BACKED PLANT HOPPER: On overall Punjab basis 3.90% spots BETL have been observed during current week as compared to 0.00% during the same corresponding period of last year. It is also predicted that its infestation may be decreased in next coming days.

BROWN PLANT HOPPER: On overall Punjab basis 3.90% spots have been observed as compared to 0.00% spots BETL during the same corresponding period of the last year. It is also predicted that its infestation may be increased in next coming days.

TOKA: On overall Punjab basis 0.15% spots above ETL of Toka have been observed as compared to 0.73% spots during the same corresponding period of last year, whereas 15.32% spots below ETL have been observed as compared to 10.77% spots during the same corresponding period of last year. It is also predicted that its infestation may be decreased in next coming days.

Tehsil wise percentage of hot spots of toka

Sr.	TEHSIL	%AGE
1	M.B.Din	6.7
2	Malikwal	6.7

FOOT ROT: On overall Punjab basis symptoms of Foot rot have been recorded, 0.30% spots during the week under report as compared to 0.73% spots during the same corresponding period of last year. It is also predicted that its incidence may be decreased in next coming days.

Tehsil wise percentage of hot spots of Foot rot

Sr.	TEHSIL	%AGE
1	Kharian	9.5
2	Ferozwala	5.3
3	Nankana Sahib	4.17

BACTERIAL LEAF BLIGHT: On overall Punjab basis symptoms of Bacterial Blight have been recorded on 1.65% spots during the week under report as compared to 7.37% during the same corresponding period of last year. It is also predicted that its incidence may be increased in next coming days.

Tehsil wise percentage of hot spots of bacterial leaf blight

Sr.	TEHSIL	%AGE
1	Narowal	20
2	Phalia	19
3	Ferozwala	16
4	M.B.Din	13
5	Malikwal	13
6	Pasrur	5
7	Sambrial	4
8	Daska	4
9	Minchinabad	4
10	Chiniot	3.0
11	Gujrat	2.6
12	Pattoki	2.2
13	ShakarGarh	1.7
14	Sialkot	1.4

BROWN LEAF SPOTS: On overall Punjab basis symptoms of Brown Leaf Spot (BLS) have been recorded on 13.3% spots during the week under report as compared to 10.6% during the same corresponding period of last year. It is also predicted that its incidence may be increased in next coming days.

Tehsil wise percentage of hot spots of brown leaf spots

Sr.	TEHSIL	%AGE
1	Hafizabad	43
2	Ferozwala	42
3	Pindi Bhatian	33
4	Malikwal	33
5	Baddomalhi	31
6	Bahawalnagar	29
7	Sambrial	28
8	Zafarwal	25
9	Phalia	25
10	Daska	23.1
11	Minchinabad	21.4
12	Noshehra Virkan	20.0
13	Narowal	20.0
14	M.B.Din	20.0
15	Chishtain	20.0
16	Lahore	18.75
17	Nankana Sahib	16.7
18	Kamoki	16.3
19	Sargodha	15.9

Sr.	TEHSIL	%AGE
20	ShakarGarh	15.3
21	Gujranwala	14.0
22	A.P.Sial	13.3
23	Pasrur	12.8
24	Wazirabad	12.2
25	Shorkot	11.8
26	Chiniot	9.1
27	Pattoki	8.7
28	Safdarabad	8.3
29	Muridke	8.0
30	Gujrat	7.9
31	Sialkot	6.8
32	Jaranwala	6.7
33	Sheikhupura	6.3
34	Pirmahal	5.9
35	Kharian	4.8
36	Sharqpur	4.5
37	ChakJhumra	3.8
38	Kamalia	2.5

SHEATH BLIGHT: On overall Punjab basis symptoms of Sheath Blight have been recorded on 0.15% spots during the week under report as compared to 0.00% during the same corresponding period of last year. It is also predicted that its incidence may be increased in next coming days.

Tehsil wise percentage of hot spots of sheath blight

Sr.	TEHSIL	%AGE
1	Sargodha	3

BLAST: On overall Punjab basis symptoms of Rice Blast have been recorded on 1.13% spots during the week under report as compared to 0.47% during the same corresponding period of last year. It is also predicted that its incidence may be increased in next coming days.

Tehsil wise percentage of hot spots of blast

Sr.	TEHSIL	%AGE
1	Shorkot	12
2	Pakpattan	10
3	Sargodha	7
4	M.B.Din	7
5	A.P.Sial	7
6	Phalia	6
7	Safdarabad	4
8	Nankana Sahib	4
9	Pattoki	2

Meteorological data of the current week 2018-2017

Districts	2018				2017			
	Temperature		R.H%	Rainfall (mm)	Temperature		RH%	Rainfall (mm)
	Max.	Min.			Max.	Min.		
Gujranwala	34.98	23.77	62.02	0	38.94	27.61	62.82	0
Hafizabad	35.25	23.25	61.75	0	39.57	28	62.86	0
Sialkot	33.0	22.0	73.0	0.0	32.1	22.0	65.0	0.0
Narowal	30.3	21.2	84.2	89.0	30.3	21.0	85.9	0.0
Gujrat	39.0	22.0	0.5	0.0	34.0	21.0	0.7	0.0
M.B.Din	32.0	17.5	67.0	3.0	32.0	17.0	70.0	0.0
Lahore	32.0	20.9	70.1		36.2	24.7	65.4	
Sheikhupura	32.1	22.4	68.3	0.0	35.1	24.2	53.4	0.0
Ferozwala	32.1	22.4	68.3	0.0	35.1	24.2	53.4	0.0
Kasur	30.1	20.8	72.4	24.0	36.1	24.0	53.0	0.0
Nankana	21.0	31.7	75.1		35.3	24.1	58.3	
Faisalabad	38.86	27	58.29	0	39.14	27.14	57.43	0
Jhang	38.86	27	58.29	0	39.14	27.14	57.43	0
Toba Tek Singh	35.5	23.9	84.1	0.0	38.8	23.8	83.3	0
Sargodha	35.7	24.2	81.3	0.0	34.8	24.7	81.0	0.0
Pakpattan	35.7	24.2	81.3	0.0	34.8	24.7	81.0	0.0
Okara	32.8	21.6	91.0	0.0	36.5	24.5	85.0	0.0
Bahawalnagar	35.6	23.9	60.1		38.3	22.9	55.1	0.0
TOT/AVG	33.6	23.32	67.61	116	35.89	24.03	62.83	0

Weather forecast for next 7 day in rice zone

Division	Dated	28/9	29/9	30/9	01/10	02/10	03/10	04/10
Gujranwala	Max.Temp.	37	37	34	36	39	32	31
	Min.Temp.	24	24	25	25	24	24	27
	Humidity %	27	24	20	19	16	12	11
Lahore	Max.Temp.	36	37	38	39	39	40	37
	Min.Temp.	21	22	22	22	21	20	27
	Humidity %	33	29	25	21	18	12	10
Faisalabad	Max.Temp.	36	38	39	39	39	40	36
	Min.Temp.	24	23	24	26	24	24	22
	Humidity %	33	25	22	20	18	16	12
Bahawalnagar	Max.Temp.	37	38	39	38	39	40	35
	Min.Temp.	24	25	26	24	23	25	28
	Humidity %	25	23	19	18	14	13	11
Sahiwal	Max.Temp.	36	38	39	39	39	40	36
	Min.Temp.	24	23	24	26	24	24	22
	Humidity %	33	25	22	20	18	16	12
Sargodha	Max.Temp.	37	38	39	38	39	40	35
	Min.Temp.	24	25	26	24	23	25	28
	Humidity %	25	23	19	18	14	13	11
Average Rice Region	Max.Temp.	38.07						
	Min.Temp.	23.93						
	Humidity %	19.40						

RECOMMENDATION

BROWN HOPPER MANAGEMENT

- 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.
- Apply granular insecticides with last irrigation in those fields where hopper infestation observed in last year.
- Control the pest without delay when population reaches ETL i.e. 20-25 adults or nymphs per plant in September_October according to the advice of Agriculture Department.

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.
- 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.
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