

PEST SITUATION ON RICE CROP IN PUNJAB DURING 1ST WEEK OF OCTOBER, 2018

RICE BORERS: On overall Punjab basis 0.25% spots above ETL of Rice Borers have been observed as compared to 0.06% spots during the same corresponding period of last year, whereas 2.05% spots below ETL have been observed as compared to 2.85% spots during the same corresponding period of last year. It is also predicted that its infestation may be decreased in coming days.

Tehsil wise percentage of hot spots of rice borer

Sr.	TEHSIL	%AGE
1	Minchinabad	7.1
2	Pakpattan	3.3
3	Gujrat	3.0

RICE LEAF FOLDER: On overall Punjab basis 0.00% spots above ETL of Rice Leaf folder have been observed as compared to 0.52% spots during the same corresponding period of last year, whereas 3.16% spots below ETL have been observed as compared to 5.35% spots during the same corresponding period of last year. It is also predicted that its infestation may be decreased in coming days.

WHITE-BACKED PLANT HOPPER: On overall Punjab basis 0.00% spots AETL have been observed during current week as compared to 0.00% during the same corresponding period of last year, whereas 0.56% spots below ETL have been observed as compared to 0.00% spots during the same corresponding period of last year. It is also predicted that its infestation may be increased in coming days.

BROWN PLANT HOPPER: On overall Punjab basis 0.00% spots have been observed as compared to 0.00% spots AETL during the same corresponding period of the last year, whereas 4.53% spots below ETL have been observed as compared to 0.23% spots during the same corresponding period of last year. It is also predicted that its infestation may be increased in coming days.

TOKA: On overall Punjab basis 0.68% spots above ETL of Toka have been observed as compared to 0.87% spots during the same corresponding period of last year, whereas 15.13% spots below ETL have been observed as compared to 10.53% spots during the same corresponding period of last year. It is also predicted that its infestation may be decreased in coming days.

Tehsil wise percentage of hot spots of toka

Sr.	TEHSIL	%AGE
1	Chunian	10
2	Kot Radha Kishan	10
3	Kasur	7.5
4	Gujrat	6.1
5	Safdarabad	5.4
6	Malikwal	2.6

FOOT ROT: On overall Punjab basis symptoms of Foot rot have been recorded, 0.74% spots during the week under report as compared to 0.29% spots during the same corresponding period of last year. It is also predicted that its incidence may be decreased in coming days.

Tehsil wise percentage of hot spots of Foot rot

Sr.	TEHSIL	%AGE
1	Muridke	10
2	Shahkot	9
3	Chak Jhumra	8.3
4	Phalia	8.0
5	Sheikhupura	7.7

BACTERIAL LEAF BLIGHT: On overall Punjab basis symptoms of Bacterial Blight have been recorded on 2.79% spots during the week under report as compared to 4.77% 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 bacterial leaf blight

Sr.	TEHSIL	%AGE
1	Phalia	18.18
2	M.B.Din	20
3	Sharqpur	16.7
4	Ferozwala	14.7
5	Safdarabad	8.1
6	Minchinabad	7.1
7	Gujrat	6.1
8	Baddomalhi	5
9	Shakargarh	1.64
10	Shahkot	4.5

Sr.	TEHSIL	%AGE
11	Chak Jhumra	4.17
12	Muridke	3.2
13	Sambrial	3.3
14	Malikwal	2.6
15	Sheikhupura	2.6
16	Pasrur	2.50
17	Kasur	2.5
18	Jaranwala	2.0
19	Narowal	1.6

BROWN LEAF SPOTS: On overall Punjab basis symptoms of Brown Leaf Spot (BLS) have been recorded on 19.40% spots during the week under report as compared to 13.79% 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 brown leaf spots

Sr.	TEHSIL	%AGE
1	Narowal	100
2	Zafarwal	95
3	Baddomalhi	85.0
4	Shakar Garh	55.7
5	Chishtain	40.0
6	Sargodha	38.5
7	Pindi Bhatian	32.8
8	Shahkot	31.8
9	Bahawalnagar	28.6
10	Ferozwala	28.4
11	Minchinabad	25.0
12	Chak Jhumra	20.8
13	Hafizabad	18.4
14	Chiniot	17.6
15	A.P.Sial	17.4
16	M.B.Din	16.0
17	Gujranwala	15.8
18	Nankana Sahib	15.0
19	Khushab	15
20	Daska	14.8

Sr.	TEHSIL	%AGE
21	Sangla Hill	14
22	Lahore	13
23	Kharian	12.5
24	Shorkot	12.5
25	Sambrial	12.1
26	Sheikhupura	10.3
27	Noshehra Virkan	9.3
28	Kamoki	9.1
29	Sialkot	9.1
30	Gujrat	9.09
31	Phalia	9.09
32	Safdarabad	8.11
33	Jaranwala	8.00
34	Malikwal	7.69
35	Pasrur	7.50
36	Muridke	6.45
37	Wazirabad	6.12
38	Pirmahal	4.65
39	Kamalia	2.63

SHEATH BLIGHT: On overall Punjab basis symptoms of Sheath Blight have been recorded on 0.06% spots during the week under report as compared to 0.12% 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 sheath blight

Sr.	TEHSIL	%AGE
1	M.B.Din	4

BLAST: On overall Punjab basis symptoms of Rice Blast have been recorded on 1.36% spots during the week under report as compared to 2.39% 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 blast

Sr.	TEHSIL	%AGE
1	Sargodha	23.1
2	Bahawalnagar	14.3
3	Chiniot	11.8
4	Pakpattan	10.0
5	Phalia	9.1
6	Safdarabad	8.1
7	Minchinabad	7.1

Sr.	TEHSIL	%AGE
8	Shorkot	6.3
9	Shahkot	4.5
10	M.B.Din	4.0
11	Muridke	3.2
12	Nankana Sahib	2.5
13	Kasur	2.5
14	Jaranwala	2.0

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	33.98	20.88	66.94	0	35.79	22.91	67.87	0
Hafizabad	34.25	21.87	67.75	10	36.25	23	68.75	0
Sialkot	33.9	22.2	66.7	0.0	34.7	23.9	67.9	0.0
Narowal	32.3	19.2	80.2	0.0	31.3	20.0	85.9	0.0
Gujrat	34.0	18.0	42.0	2.0	34.1	23.3	76.3	0.0
M.B.Din	31.0	16.0	69.0	1.8	34	20	45	0.0
Lahore	34.2	20.5	61.3	8.0	35.3	24.8	55.1	0.00
Sheikhupura	33.5	22.2	68.3	0.0	35.5	24.2	55.8	0.0
Kasur	34.6	22.4	70.4	0.0	37.2	27.0	37.0	0.0
Nankana	33.2	21.2	68.4	3.0	37.6	25.0	50.7	0.00
Faisalabad	35.4	22.0	72.0	84	38.0	20.7	63.5	0
Jhang	38.71	26.71	58.28	0	38.14	25.57	59.14	0
Toba Tek Singh	36.9	22.4	78.9	0.0	38.0	23.0	80.6	0
Sargodha	32.4	20.8	74.4	0	36.2	26	77.4	0
Pakpattan	34.6	24.0	83.4	0.0	34.3	23.9	83.1	0.0
Okara	36.0	25.2	84.0	0.0	35.4	25.3	89.0	18.0
Bahawalnagar	38.6	27.1	58.4	0.00	38.4	22.8	60.1	0.00
Average	34.5629	21.9224	68.8405	1.65333	35.8815	23.5969	66.0675	1.28571

Weather forecast for next 7 day in rice zone

Division	Dated	8/10	9/10	10/10	11/10	12/10	13/10	14/10
Gujranwala	Max.Temp.	33	32	31	31	31	30	30
	Min.Temp.	20	18	18	17	17	16	16
	Humidity %	46	51	50	45	40	37	39
Lahore	Max.Temp.	33	32	30	31	30	30	30
	Min.Temp.	20	19	18	18	18	17	17
	Humidity %	50	52	58	50	45	40	41
Faisalabad	Max.Temp.	35	33	31	32	32	32	32
	Min.Temp.	21	19	19	18	19	18	18
	Humidity %	39	45	47	43	39	33	32
Bahawalnagar	Max.Temp.	38	34	33	35	33	33	33
	Min.Temp.	20	21	19	18	17	17	17
	Humidity %	17	25	24	19	11	11	12
Sahiwal	Max.Temp.	36	34	32	33	33	33	33
	Min.Temp.	22	19	19	18	19	18	19
	Humidity %	39	43	47	41	38	34	36
Sargodha	Max.Temp.	35	32	31	32	32	32	32
	Min.Temp.	21	19	18	18	18	18	18
	Humidity %	37	49	44	39	34	31	31
Average Rice Region	Max.Temp.	32						
	Min.Temp.	18						
	Humidity %	38						

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, reflood 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