

PEST SITUATION ON RICE CROP IN PUNJAB DURING 3RD WEEK OF OCTOBER, 2018

RICE BORERS: On overall Punjab basis 0.12% 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 2.50% 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	Minchinabad	3.33

RICE LEAF FOLDER: On overall Punjab basis 0.00% spots above ETL of Rice Leaf folder have been observed as compared to 0.00% spots during the same corresponding period of last year, whereas 0.82% spots below ETL have been observed as compared to 1.10% spots during the same corresponding period of last year. It is also predicted that its infestation may be decreased in next coming days.

WHITE-BACKED PLANT HOPPER: On overall Punjab basis 0.00% spots BETL have been observed during current week as compared to 0.00% during the same corresponding period of last year, whereas 1.11% 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 next coming days.

BROWN PLANT HOPPER: On overall Punjab basis 0.23% spots have been observed as compared to 1.46% spots BETL during the same corresponding period of the last year, whereas 3.86% spots below ETL have been observed as compared to 2.44% spots during the same corresponding period of last year. It is also predicted that its infestation may be increased in next coming days.

Tehsil wise percentage of hot spots of rice brown plant hopper

Sr.	TEHSIL	%AGE
1	Bahawalnagar	16.7
2	Minchinabad	3.34
3	Shakar Garh	1.47
4	Baddomalhi	1.21

TOKA: On overall Punjab basis 0.99% spots above ETL of Toka have been observed as compared to 0.18% spots during the same corresponding period of last year, whereas 12.62% spots below ETL have been observed as compared to 11.17% 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	Chunian	13.
2	Kasur	11.6
3	Kot Radha Kishan	10
4	Safdarabad	5.12
5	Sharqpur	3.2
6	Sheikhupura	2.5
7	Muridke	1.96

FOOT ROT: On overall Punjab basis symptoms of Foot rot have been recorded, 0.29% spots during the week under report as compared to 0.12% 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	Chunian	4.3

BACTERIAL LEAF BLIGHT: On overall Punjab basis symptoms of Bacterial Blight have been recorded on 4.21% spots during the week under report as compared to 5.49% 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	M.B.Din	26.9
2	Phalia	25.0
3	Ferozwala	14.6
4	Shahkot	10.5
5	Malikwal	10.3
6	Pasrur	9.8
7	Baddomalhi	9.8
8	Sangla Hill	8.3
9	Daska	7.7

Sr.	TEHSIL	%AGE
10	Safdarabad	7.7
11	Shakar Garh	7.4
12	Gujrat	7.3
13	Sambrial	6.1
14	Nankana Sahib	5.0
15	Sialkot	3.8
16	Sharqpur	3.2
17	Hafizabad	3.0
18	Jaranwala	2.2

BROWN LEAF SPOTS: On overall Punjab basis symptoms of Brown Leaf Spot (BLS) have been recorded on 23.32% spots during the week under report as compared to 15.31% 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	Narowal	100
2	Zafarwal	87.5
3	Baddomalhi	72.0
4	Shakar Garh	66.2
5	Sangla Hill	41.7
6	Pindi Bhatian	40.0
7	Sheikhupura	40.0
8	Chishtain	40.0
9	Sargodha	40.0
10	Phalia	37.5
11	Ferozwala	37.5
12	Hafizabad	33.3
13	Bahawalnagar	33.3
14	Chiniot	31.3
15	Khushab	28.6
16	Quaidabad	28.6
17	Kharian	27.8
18	Daska	23.1
19	M.B.Din	23.1
20	Safdarabad	23.1
21	Sambrial	21.2

Sr.	TEHSIL	%AGE
22	Minchinabad	20
23	Sharqpur	19.4
24	Shahkot	18.4
25	Gujrat	18.2
26	Pasrur	17.1
27	Sialkot	17.0
28	Nankana Sahib	15.0
29	Lahore	13.6
30	A.P.Sial	11.8
31	Kot Radha Kishan	10.0
32	Gujranwala	9.1
33	Jaranwala	8.9
34	Wazirabad	7.9
35	Muridke	7.8
36	Malikwal	7.7
37	Chak Jhumra	7.4
38	Kamoki	6.8
39	Shorkot	5.9
40	Noshehra Virkan	5.1
41	Kamalia	5.0
42	Chunian	4.3
43	Kasur	2.3

SHEATH BLIGHT: On overall Punjab basis symptoms of Sheath Blight have been recorded on 0.29% spots during the week under report as compared to 0.37% 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 sheath blight

Sr.	TEHSIL	%AGE
1	Sargodha	8.57
2	Sangla Hill	8.33
3	Hafizabad	1.5

BLAST: On overall Punjab basis symptoms of Rice Blast have been recorded on 1.34% spots during the week under report as compared to 4.58% 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	Sargodha	28.57
2	Bahawalnagar	16.67
3	Sangla Hill	8.3
4	Pakpattan	7.7
5	Chiniot	6.3
6	AP.Sial	5.9

Sr.	TEHSIL	%AGE
7	M.B.Din	3.846154
8	Depalpur	3.3
9	Minchinabad	3.3
10	Malikwal	2.6
11	Nankana Sahib	2.5
12	Pasrur	2.4

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	31.78	17.94	67.11	0	33.12	20.23	68.94	0
Hafizabad	32.42	18.28	67.42	0	33.28	20.42	69.14	0
Sialkot	30.6	15.8	79.0	0	29.2	16.5	72.0	0
Narowal	29.5	16.8	67.3	0	27.9	17.8	68.3	0
Gujrat	31.3	17.1	52.0	0	33.1	23.1	78.0	0
M.B.Din	29	16.3	65	0	30	17	65	0
Lahore	31.1	18.4	68.4	0	0.0	35.9	24.0	37
Sheikhupura	31.7	20.3	58.3	34	20.2	52.1	0.0	0
Ferozwala	30.6	17.1	62.8	0	35.4	20.6	50.9	0
Kasur	245.0	139.0	519.0	28	167.0	275.0	0.0	0
Nankana	30.6	17.0	65.8	0	36.7	20.3	50.3	0
Faisalabad	32.5	18.1	74.7	18	36.2	19.2	72.5	0
Jhang	35	24.57	63.86	0	37.43	26.43	60.86	0
Toba Tek Singh	33.1	18.4	84.3	0	37.0	19.6	86.8	0
Sargodha	29.3	17.1	85.0	0	30.5	22.1	87.0	0
Pakpattan	32.3	19.5	84.5	0	32.1	20.6	82.5	0
Okara	32.4	18.8	80.0	0	35.5	20.2	82.0	0
Bahawalnagar	31.8	17.3	49.8	0	37.6	19.9	65.3	0
TOT/AVG	43.33	24.87	94.13	80	38.46	37.05	60.19	37

Weather forecast for next 7 day in rice zone

Division	Dated	15/10	16/10	17/10	18/10	19/10	20/10	21/10
Gujranwala	Max.Temp.	32	32	31	30	30	29	29
	Min.Temp.	18	18	17	17	16	16	15
	Humidity %	42	44	40	45	40	38	36
Lahore	Max.Temp.	32	32	31	31	29	29	29
	Min.Temp.	18	18	17	18	17	17	16
	Humidity %	45	46	48	50	47	41	39
Faisalabad	Max.Temp.	33	32	32	31	31	31	30
	Min.Temp.	19	19	18	18	17	17	17
	Humidity %	40	44	44	42	42	38	37
B. nagar	Max.Temp.	35	34	33	33	32	32	32
	Min.Temp.	20	20	19	19	18	19	18
	Humidity %	34	37	39	38	38	38	37
Sahiwal	Max.Temp.	34	33	32	32	31	31	31
	Min.Temp.	19	19	18	18	18	18	18
	Humidity %	37	40	41	41	41	38	37
Sargodha	Max.Temp.	32	31	31	31	30	31	31
	Min.Temp.	18	18	18	18	17	17	17
	Humidity %	40	45	43	40	40	36	34
Average Rice Region	Max.Temp.	31						
	Min.Temp.	18						
	Humidity %	41						

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