

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

RICE BORERS: On overall Punjab basis 0.0% spots above ETL of Rice Borers have been observed as compared to 0.11% spots during the same corresponding period of last year, whereas 1.63% spots below ETL have been observed as compared to 2.46% spots during the same corresponding period of last year. It is also predicted that its infestation may be decreased 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 0.11% spots during the same corresponding period of last year, whereas 0.05% spots below ETL have been observed as compared to 0.40% 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 BETL have been observed during current week as compared to 0.00% during the same corresponding period of last year, whereas 1.37% 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 0.034% spots have been observed as compared to 0.503% spots BETL during the same corresponding period of the last year, whereas 5.60% spots below ETL have been observed as compared to 0.658% spots during the same corresponding period of last year. It is also predicted that its infestation may be increased in coming days.

Tehsil wise percentage of hot spots of rice brown plant hopper

Sr.	TEHSIL	%AGE
1	Chistian	20
2	Bahawalnagar	14.2
3	Minchinabad	7.1

TOKA: On overall Punjab basis 1.11% spots above ETL of Toka have been observed as compared to 0.91% spots during the same corresponding period of last year, whereas 13.59% spots below ETL have been observed as compared to 10.02% spots during the same corresponding period of last year. It is also predicted that its infestation may be increased in coming days.

Tehsil wise percentage of hot spots of toka

Sr.	TEHSIL	%AGE
1	Kasur	15
2	Safdarabad	12
3	Kot Radha Kishan	8.3
4	Hafizabad	6.7
5	Pattoki	6.3
6	Chunian	4.8
7	Sheikhupura	4.0
8	Muridke	3.7

FOOT ROT: On overall Punjab basis symptoms of Foot rot have been recorded, 0.21% spots during the week under report as compared to 0.00% 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	Pattoki	8.3

BACTERIAL LEAF BLIGHT: On overall Punjab basis symptoms of Bacterial Blight have been recorded on 3.22% spots during the week under report as compared to 5.04% 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 bacterial leaf blight

Sr.	TEHSIL	%AGE
1	Phalia	28
2	M.B.Din	18
3	Ferozwala	13.3
4	Muridke	12.2
5	Zafarwal	10.8
6	Malikwal	8.8
7	Sambrial	8.1
8	Gujrat	8.0
9	Daska	8

Sr.	TEHSIL	%AGE
10	Pasur	8
11	Minchinabad	7.1
12	Hafizabad	6.7
13	Sialkot	3.9
14	Shahkot	3.8
15	Sharqpur	3.4
16	Shakar Garh	3.2
17	Nankana Sahib	2.6

BROWN LEAF SPOTS: On overall Punjab basis symptoms of Brown Leaf Spot (BLS) have been recorded on 25.4% spots during the week under report as compared to 16.15% 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	Baddomalhi	100
2	Shakar Garh	100
3	Zafarwal	84.6
4	Narowal	78.9
5	Quaidabad	50.0
6	Chiniot	42.6
7	Chishtain	40.0
8	Khushab	39.5
9	Phalia	32.0
10	Ferozwala	31.1
11	Muridke	30.5
12	M.B.Din	29.4
13	Pindi Bhatian	28.6
14	Bahawalnagar	28.6
15	Malikwal	26.5
16	Safdarabad	26.2
17	Sargodha	25.8
18	Minchinabad	25.0
19	Sambrial	24.32
20	Gujrat	24.0
21	Sialkot	21.5

Sr.	TEHSIL	%AGE
22	Sharqpur	21
23	Hafizabad	20
24	Daska	19.2
25	Pasrur	19.2
26	Kharian	16.1
27	Sheikhupura	16.0
28	Lahore	15.0
29	Chak Jhumra	14.0
30	Kamoki	13.7
31	Gujranwala	12.70
32	Wazirabad	12.28
33	A.P.Sial	11.11
34	Shorkot	10.00
35	Noshehra Virkan	7.58
36	Kasur	5.00
37	Jaranwala	4.55
38	Shahkot	3.85
39	Sangla Hill	3.2
40	Pattoki	2
41	Kamalia	1.63

SHEATH BLIGHT: On overall Punjab basis symptoms of Sheath Blight have been recorded on 0.26% spots during the week under report as compared to 0.40% 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 sheath blight

Sr.	TEHSIL	%AGE
1	Sharqpur	7
2	M.B.Din	6
3	Hafizabad	3.3

BLAST: On overall Punjab basis symptoms of Rice Blast have been recorded on 1.43% spots during the week under report as compared to 5.38% 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	16
2	Bahawalnagar	14
3	Pakpattan	10.0
4	Pasrur	7.6
5	Minchinabad	7.1
6	Chiniot	5.8

Sr.	TEHSIL	%AGE
7	Shorkot	5
8	Depalpur	5
9	Muridke	3.6
10	Pindi Bhatian	3.5
11	Nankana Sahib	2.6
12	Kamalia	1.6

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	31.42	17	69.42	0	31.62	17.25	69.5	0
Sialkot	30.1	15.2	78.0	0.0	29.5	16.6	72.0	0.0
Narowal	23.8	16.8	77.9	0.0	25.9	19.0	82.6	0.0
Gujrat	30.0	15.0	70.0	0.0	32.0	21.3	76.6	0.0
M.B.Din	28.8	16.0	64.0	1.0	30	17	70	0.0
Lahore	29.5	15.5	43.0	0.0	35.9	24.0	37.0	0.0
Sheikhupura	29.1	18.4	55.0	0.0	0.0	37.9	19.3	0.0
Ferozwala	29.3	15.6	54.3	0.0	33.0	17.2	55.9	0.0
Kasur	236.0	117.0	490.0	0.0	257.0	140.0	305.0	0.0
Nankana	30.4	15.1	58.3	0.0	33.9	18.3	55.3	0.0
Faisalabad	32.5	17.1	73.1	0	33.8	16.7	64.2	0
Jhang	34	22.75	65	0	36	25.25	63	0
T.T.Singh	33.3	16.7	83.0	0	33.7	16.4	86.2	0
Sargodha	25.71	14.14	86	0	28.5	18.25	87	0
Pakpattan	32.3	19.6	84.6	0.0	32.1	20.6	84.0	0
Okara	32.5	17.9	76.0	0.0	34.5	19.0	86.0	0
Bahawalnagar	29.7	15.3	31.0	0.0	36.0	18.1	42.8	0.0
TOT/AVG	41.67	22.38	90.31	0.05	43.13	26.83	79.18	0

Weather forecast for next 7 day in rice zone

Division	Dated	29/ 10	30/ 10	31/ 10	01/ 11	02/ 11	03/ 11	04/ 11
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
Bahawal 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.	28						
	Min.Temp.	15						
	Humidity %	51						

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