

PEST SITUATION ON RICE CROP IN PUNJAB DURING 2nd WEEK OF OCTOBER, 2018

RICE BORERS: On overall Punjab basis 0.06% spots above ETL of Rice Borers have been observed as compared to 0.12% spots during the same corresponding period of last year, whereas 2.74% spots below ETL have been observed as compared to 3.51% 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	3.73

RICE LEAF FOLDER: On overall Punjab basis 0.00% spots above ETL of Rice Leaf folder have been observed as compared to 0.18% spots during the same corresponding period of last year, whereas 1.26% spots below ETL have been observed as compared to 3.94% 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 1.71% 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 0.23% spots have been observed as compared to 0.00% spots BETL during the same corresponding period of the last year, whereas 2.97% spots below ETL have been observed as compared to 1.11% 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	Chishtain	20
2	Bahawalnagar	10
3	Minchinabad	7.4

TOKA: On overall Punjab basis 1.03% spots above ETL of Toka have been observed as compared to 1.79% spots during the same corresponding period of last year, whereas 14.45% spots below ETL have been observed as compared to 12.01% 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	Kot Radha Kishan	10
2	Pattoki	8
3	Safdarabad	5.1
4	Muridke	4.7
5	Kasur	4.1
6	Chunian	3.8
7	Sharqpur	3.2
8	Pindi Bhatian	2.6
9	Sheikhupura	2.5
10	Malikwal	2.3
11	Hafizabad	1.2

FOOT ROT: On overall Punjab basis symptoms of Foot rot have been recorded, 0.11% 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 coming days.

Tehsil wise percentage of hot spots of Foot rot

Sr.	TEHSIL	%AGE
1	Pattoki	5.2

BACTERIAL LEAF BLIGHT: On overall Punjab basis symptoms of Bacterial Blight have been recorded on 3.48% spots during the week under report as compared to 4.56% 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	Shahkot	33
2	M.B.Din	23
3	Kharian	22.5
4	Phalia	18.8
5	Ferozwala	15.0
6	Gujrat	13.5
7	Malikwal	11.4
8	Nankana Sahib	11.1
9	Safdarabad	7.7

Sr.	TEHSIL	%AGE
10	Muridke	6
11	Shorkot	6
12	Zafarwal	4.2
13	Minchinabad	3.7
14	Sambrial	3.6
15	Sharqpur	3.2
16	Shakar Garh	2.7
17	Pasrur	2.2

BROWN LEAF SPOTS: On overall Punjab basis symptoms of Brown Leaf Spot (BLS) have been recorded on 22.22% spots during the week under report as compared to 16.57% 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	Baddomalhi	97
2	Narowal	83
3	Shakar Garh	76.7
4	Zafarwal	75.0
5	Shahkot	50.0
6	Sargodha	45.0
7	Sheikhupura	40.0
8	Chishtain	40.0
9	Chiniot	30.0
10	Bahawalnagar	30.0
11	Minchinabad	29.6
12	Ferozwala	28.8
13	Khushab	26.1
14	Phalia	25.0
15	Sangla Hill	25.0
16	Pindi Bhatian	23.4
17	Safdarabad	23.1
18	Quaidabad	21.4
19	Sharqpur	19.354839
20	M.B.Din	19.2
21	Gujrat	18.918919

Sr.	TEHSIL	%AGE
22	Sambrial	18
23	Hafizabad	16
24	Kamoki	15.2
25	Daska	14.3
26	Wazirabad	14.0
27	Nankana Sahib	13.9
28	Malikwal	13.6
29	Lahore	13.2
30	Gujranwala	12.5
31	Shorkot	11.76
32	Noshehra Virkan	10.26
33	Sialkot	8.89
34	Chak Jhumra	8.00
35	Pasrur	6.52
36	A.P.Sial	6.25
37	Kamalia	5.26
38	Pirmahal	5.08
39	Kharian	5
40	Muridke	4.6875
41	Kasur	2.040816

SHEATH BLIGHT: On overall Punjab basis symptoms of Sheath Blight have been recorded on 0.11% spots during the week under report as compared to 0.43% 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	Hafizabad	2.5

BLAST: On overall Punjab basis symptoms of Rice Blast have been recorded on 0.74% spots during the week under report as compared to 3.82% 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	20
2	Shahkot	17
3	Bahawalnagar	10.0
4	Minchinabad	7.4
5	Shorkot	5.9
6	Depalpur	3.3
7	Chiniot	2.5
8	Malikwal	2.3
9	Pasrur	2.2

Meteorological data of the current week 2018-2017

METEOROLOGICAL DATA FOR THE 2ND WEEK OF OCTOBER 2018 RICE ZONE								
Districts	2018				2017			
	Temperature		R.H%	Rainfall (mm)	Temperature		RH%	Rainfall (mm)
	Max.	Min.			Max.	Min.		
Gujranwala	34.17	21.12	66.87	0	35.81	23.02	67.91	0
Hafizabad	34.25	21.87	67.75	10	36.25	23	68.75	0
Sialkot	34.1	23.2	66.1	3.0	34.2	24.9	67.1	0.0
Narowal	30.4	18.3	71.7	6.0	29.0	19.0	87.0	0.0
Gujrat	32.4	18.0	53.0	0.0	34.1	23.3	76.3	0.0
M.B.Din	31.2	16.3	65.0	2.1	32	18	45	0.0
Lahore	32.3	19.0	62.3	0.0	35.7	24.3	36.5	0.0
Sheikhupura	32.5	21.2	56.4	2.0	35.0	23.0	50.1	0.0
Ferozwala	33.3	19.3	61.4	0.0	35.7	22.3	51.9	0.0
Kasur	30.0	18.0	64.0	0.0	35.0	22.0	36.0	0.0
Nankana	31.3	19.9	63.8	0.0	36.1	23.8	51.8	0.0
Faisalabad	34.2	20.7	72.2	84.6	37.4	20.4	66.6	0.0
Jhang	37.1	26.6	60.9	0.0	37.7	27.1	59.7	0.0
Toba Tek Singh	34.3	19.7	80.8	0.0	36.5	21.1	80.7	1.0
Sargodha	30.3	19.5	78.0	0.0	34.0	23.6	79.5	0.0
Pakpattan	33.0	20.4	85.1	0.0	33.4	21.6	83.7	0.0
Okara	33.5	19.2	79.0	0.0	36.1	21.7	82.0	0.0
Bahawalnagar	37.5	25.1	55.7	0.0	38.5	23.1	49.0	0.0
Average	33.1069	20.4033	67.2226	5.98333	35.1392	22.5119	63.3047	0.05556

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
Bahawalnagar	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, 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