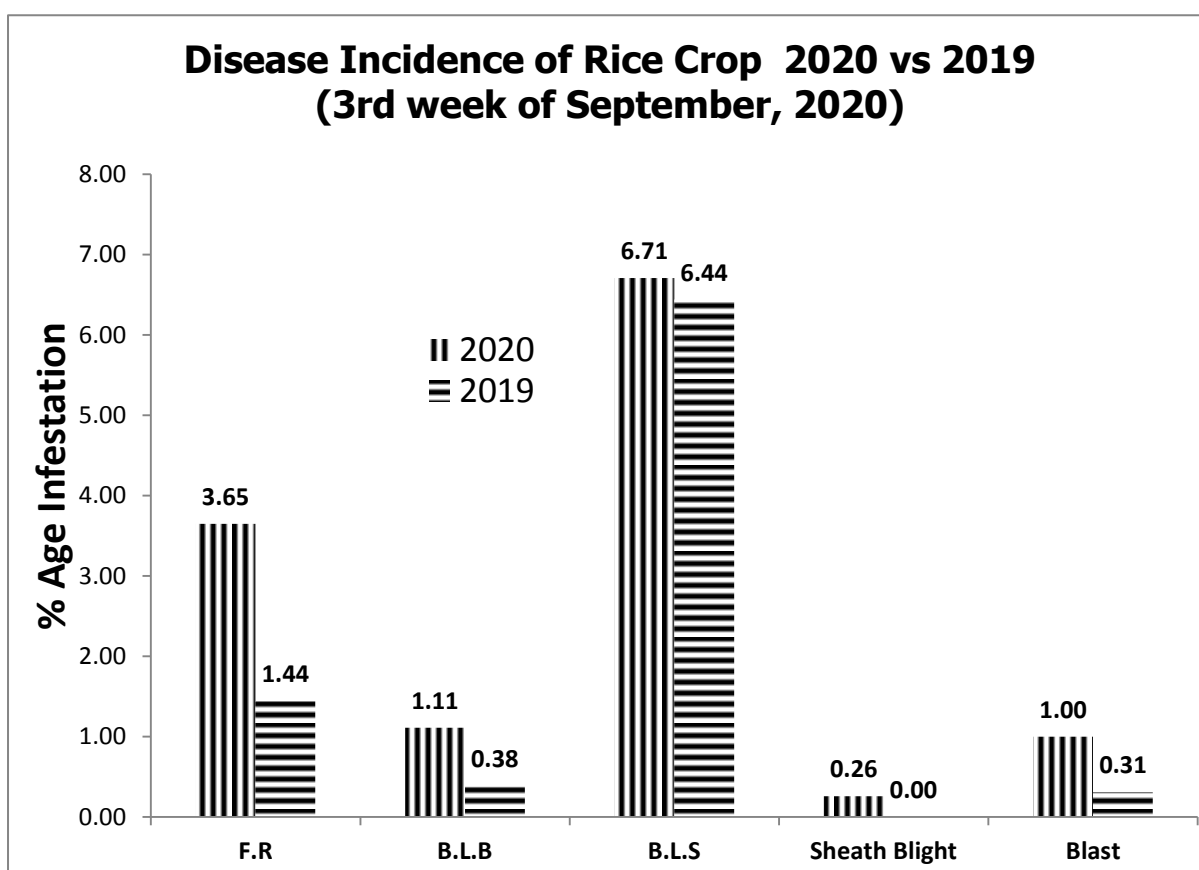
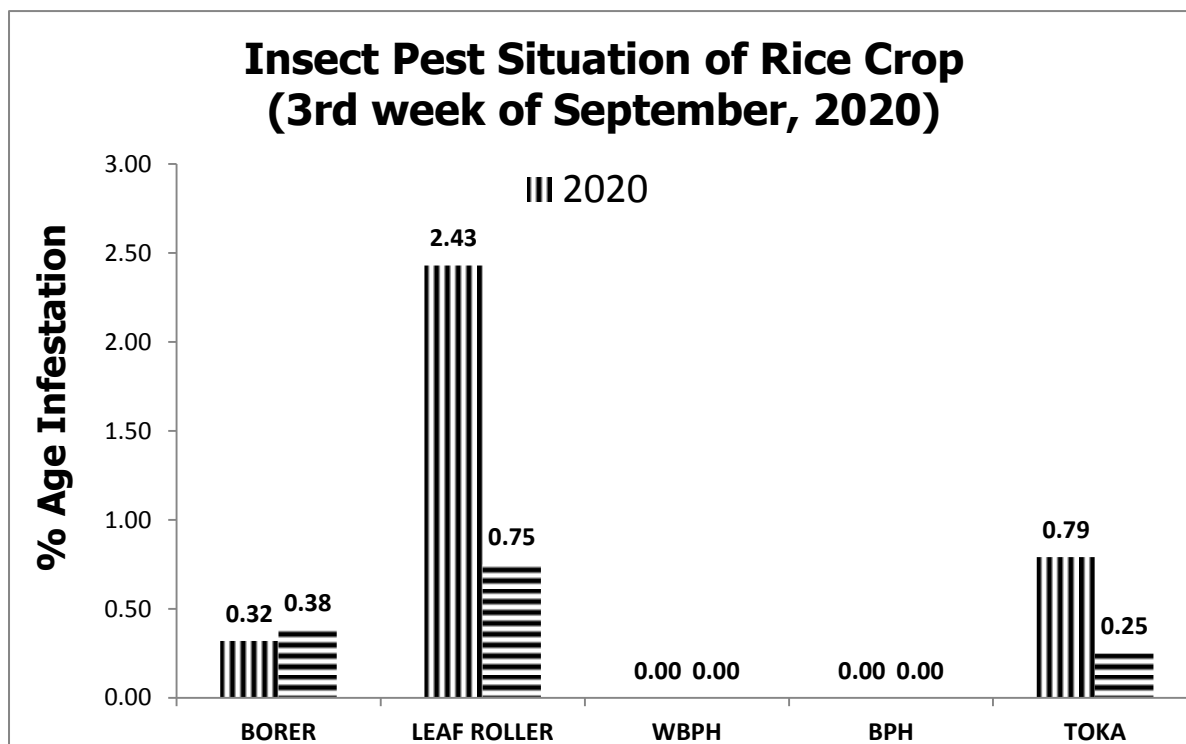


## GRAPHICAL PEST SITUATION ON RICE CROP IN PUNJAB DURING 3RD WEEK OF SEPTEMBER, 2020



## PEST SITUATION ON RICE CROP IN PUNJAB DURING 3RD WEEK OF SEPTEMBER, 2020

Pest Situation of Rice Pests								
Sr. No.	Pest Name	%age of spots						Remarks
		Current Week		Previous Week		Corresponding week of Last Year		
		AETL	BETL	AETL	BETL	AETL	BETL	
1	Rice Borer	0.32	8.40	0.50	7.44	0.38	7.25	Low
2	Leaf Folder	2.43	18.38	1.12	11.19	0.75	10.07	<b>Increasing</b>
3	WPBH	0.00	0.00	0.00	0.00	0.00	0.00	-
4	BPH	0.00	1.00	0.00	0.00	0.00	2.75	-
5	TOKA	0.79	16.75	1.12	15.95	0.25	12.95	Low
6	FOOT ROT	3.65	-	4.03	-	1.44	-	Low
7	B.L.B	1.11	-	0.95	-	0.38	-	<b>Increasing</b>
8	B.L.S	6.71	-	4.09	-	6.44	-	<b>Increasing</b>
9	SHEAT H BLIGHT	0.26	-	0.22	-	0.00	-	Sustaining
10	BLAST	1.00	-	0.84	-	0.31	-	<b>Increasing</b>
<b>NO. OF TOTAL SPOTS VISITED</b>		<b>1893</b>						
<b>TOTAL AREA VISITED (Acres)</b>		<b>15245.5</b>						

### Tehsil wise percentage of hot spots of Rice Borer

Sr#	TEHSIL	%AGE
1	Minchinabad	10.00
2	Pakpattan	6.06
3	Sahiwal	4.00

### Tehsil wise percentage of hot spots of Rice Leaf Folder

Sr#	TEHSIL	%AGE
1	Jahanain	40.00
2	Taunsa	40.00
3	Mian Channu	33.33
4	D.G Khan	33.33
5	Kot chutta	25.00
6	Karor	20.00
7	Khanewal	16.67
8	Kabirwala	16.67
9	Shahpur	10.00
10	Safdarabad	9.38
11	Shorkot	9.09
12	Depalpur	8.33
13	Sahiwal	8.00
14	Minchinabad	6.67
15	Sheikhupura	5.88
16	Malikwal	5.56
17	Wazirabad	4.76

18	Shahkot	4.44
19	Sahiwal	4.00
20	Shakar Garh	3.45
21	M.B.Din	3.23
22	Nankana Sahib	2.86

### **Tehsil wise percentage of hot spots of White-Backed Plant Hopper**

No hot spot found.

### **Tehsil wise percentage of hot spots of Brown Plant Hopper**

No hot spot found.

### **Tehsil wise percentage of hot spots of Toka**

<b>Sr#</b>	<b>TEHSIL</b>	<b>%AGE</b>
1	Gujranwala	7.69
2	Malikwal	5.56
3	Wazirabad	4.76
4	Muridke	3.92
5	Lalian	3.45
6	M.B.Din	3.23
7	Bhowana	3.23
8	Kamoki	2.86
9	Shahkot	2.22
10	Lahore	1.47

### **Tehsil wise percentage of hot spots of Foot Rot**

<b>Sr#</b>	<b>TEHSIL</b>	<b>%AGE</b>
1	Jatoi	66.67
2	Kehror Pacca	50.00
3	Dunya Pur	40.00
4	Pirmahal	25.00
5	Vehari	20.00
6	Lodhran	20.00
7	Ferozwala	15.00
8	Kamalia	12.50
9	Sharqpur	11.11
10	Shahpur	10.00
11	Muridke	9.80
12	Safdarabad	9.38
13	Silanwali	7.69
14	Bhera	7.69
15	Narang Mandi	7.14
16	Shahkot	6.67
17	Nankana Sahib	5.71
18	Chak Jhumra	5.41
19	Chunian	4.44
20	Sahiwal	4.00
21	Pakpattan	3.03

22	Pattoki	2.94
23	Kasur	2.50
24	Sheikhupura	2.35

### Tehsil wise percentage of hot spots of Brown Leaf Spot

Sr#	TEHSIL	%AGE
1	Jatoi	100.00
2	Jalal Pur	80.00
3	Minchinabad	36.67
4	Gujrat	35.29
5	Shakar Garh	34.48
6	Ferozwala	25.00
7	Kot Addu	20.00
8	Pindi Bhattian	18.18
9	Phalia	17.39
10	Malikwal	16.67
11	Jalal pur Jattan	14.29
12	Sahiwal	14.00
13	Zafarwal	13.79
14	Chiniot	13.33
15	Vehari	13.33
16	Mailsi	13.33
17	Hafizabad	12.00
18	Gujranwala	11.54
19	Khushab	11.11
20	Pasrur	10.34
21	Lalian	10.34
22	Shahpur	10.00
23	M.B.Din	9.68
24	Lahore	8.82
25	Sambrial	8.33
26	Daska	8.33
27	Kharian	7.69
28	Bhera	7.69
29	Narowal	6.67
30	Bhowana	6.45
31	Pakpattan	6.06
32	Sialkot	5.71
33	Nankana Sahib	5.71
34	Shahkot	4.44
35	Kamalia	4.17
36	Sheikhupura	3.53
37	Kamoki	2.86
38	Baddomalhi	2.22
39	Safdarabad	1.56

### Tehsil wise percentage of hot spots of BLB

Sr#	TEHSIL	%AGE
1	Hafizabad	12.00
2	Zafarwal	10.34
3	Phalia	8.70
4	Noshera Virkan	8.33
5	Sahiwal	8.00
6	Kamoki	5.71
7	Sargodha	5.26
8	Pindi Bhattian	4.55
9	Sambrial	4.17
10	Daska	4.17
11	Pasrur	3.45
12	M.B.Din	3.23
13	Sialkot	2.86
14	Lahore	1.47

### Tehsil wise percentage of hot spots of Sheath Blight

Sr#	TEHSIL	%AGE
1	Sargodha	5.26
2	Lahore	4.41
3	Kamoki	2.86

### Tehsil wise percentage of hot spots of Blast

Sr#	TEHSIL	%AGE
1	Kot chutta	25.00
2	D.G Khan	22.22
3	Karor	20.00
4	Pakpattan	9.09
5	Sahiwal	8.00
6	Bhera	7.69
7	Minchinabad	6.67
8	Zafarwal	3.45
9	Pattoki	2.94
10	Khushab	2.78
11	Kasur	2.50

**FORECAST FOR THE NEXT WEEK****Meteorological data of the current week 2019-2020**

<b>METEOROLOGICAL DATA FOR THE 3RD WEEK September 2020 RICE ZONE</b>								
<b>Districts</b>	<b>2020</b>				<b>2019</b>			
	<b>Temperature</b>		<b>R.H%</b>	<b>Rainfall (mm)</b>	<b>Temperature</b>		<b>RH%</b>	<b>Rainfall (mm)</b>
	<b>Max.</b>	<b>Min.</b>			<b>Max.</b>	<b>Min.</b>		
Gujranwala	35.11	22.84	74.78	0.00	32.18	22.81	73.88	Traces
Hafizbad	39.00	25.00	65.00	0.00	38.35	28.00	66.65	0.00
Sialkot	35.00	22.00	75.00	110.00	35.00	23.00	73.00	145.00
Narowal	31.20	23.30	81.60	35.00	35.30	23.30	84.00	0.00
Gujrat	37.60	28.10	68.10	-	34.70	26.20	69.00	
M.B.Din	39.00	22.00	43.00	0.00	38.70	22.00	44.00	0.00
LAHORE	35.14	27.71	63.71	0.00	35.00	26.57	65.14	0.00
SHEIKHUPURA	38.30	29.40	46.00	0.00	37.90	28.20	47.00	0.00
FEROZWALA	36.92	26.42	46.07	0.00	37.90	28.20	47.00	0.00
NANKANA	37.86	27.86	55.60	0.00	35.57	26.29	59.50	0.00
KASUR	35.86	26.14	60.71	0.00	36.57	30.43	57.57	0.00
Faisalabad	38.30	26.50	0.46	0.00	38.00	27.20	0.44	2.50
Jhang	38.40	27.10	60.10	0.00	39.30	27.90	56.00	0.10
Toba Tek Singh	39.37	26.81	82.29	T	39.51	27.33	83.14	0.00
Multan	37.00	27.13	79.00	0.00	38.00	28.00	75.50	0.00
Khanewal	38.43	28.21	63.57	0.00	38.86	27.14	65.43	0.00
Vehari	36.29	27.57	69.86	0.00	38.14	28.43	70.50	0.00
Lodhran	36.86	28.29	67.57	0.00	38.43	28.29	66.14	0.00
Sahiwal	35.00	27.00	64.00	0.00	34.00	26.50	65.00	0.00
Pakpattan	35.57	25.71	58.00	0.00	36.43	28.86	54.00	0.00
Okara	36.00	28.00	63.00	0.00	36.00	28.28	61.00	0.00
Bahawalpur	38.43	28.23	62.43	0.00	38.27	27.53	63.21	0.00
Bahawalnagar	40.71	22.75	47.38	0.00	35.25	25.25	49.50	0.00
R.Y.Khan	36.68	27.28	74.63	0.00	41.06	27.19	79.63	0.00
D.G. Khan	40.57	27.71	65.43	0.00	39.71	27.86	0.00	0.00
Muzaffar Garh	36.17	28.67	41.21	0.00	38.38	28.37	44.57	0.00
Rajanpur	41.30	30.30	61.20	0.00	43.50	30.40	66.40	0.00
Layyah	39.14	25.57	53.43	0.00	38.85	24.42	42.57	0.00
<b>TOT/AVG</b>	<b>37.33</b>	<b>26.56</b>	<b>60.47</b>	<b>5.58</b>	<b>37.46</b>	<b>26.93</b>	<b>58.21</b>	<b>5.68</b>

<b>Pest Forecast for Next 15 days</b>				
Avg. Temperature for next 15 days = <b>31.53 °C</b>				
Avg. Relative Humidity for next 15 days= <b>23.27%</b>				
Sr. No.	Pest Name	Opt. Temperature	%Humidity	Pest Prediction
1	Rice Borer	17-30°C	45-80%	May Be Low
2	Leaf Folder	25-30°C	45-80%	May increase
3	WPBH	25-29°C	80-90%	-
4	BPH	28-30°C	>80-90%	-
5	TOKA	24-40°C	30-80%	May be Low
6	FOOT ROT	30-35°C	<70%	May be Low
7	B.L.B	25-34°C	<70%	May Increase
8	B.L.S	16-36°C	86-100%	-May Increase
9	SHEAT H BLIGHT	28-32°C	85-100%	May Sustain
10	BLAST	25-30°C	90-95%	May Increase

## RECOMMENDATION

### HOPPER MANAGEMENT (Brown Plant Hopper/White Backed Plant Hopper)

- Drain out irrigation water in the field for 3 to 4 days.
- Install yellow sticky for monitoring of plant hoppers.
- Avoid excessive use of nitrogenous fertilizers..
- Apply granular insecticides with last irrigation in those fields where hopper infestation is observed.
- Control the pest without delay when population reaches ETL

### BROWN LEAF SPOT MANAGEMENT

- Avoid water stress before maturity.
- Control the pest with one of the following fungicides;

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 without delay when disease incidence is observed.

S#	Common Name	Brand Name	Dose / Acre
1	Copper oxychloride	Cobox,clipper	500 gm
2	Copper hydroxide	Kocide, champion	250 gm
3	Kasugamycin + Copper oxychloride 47% WP	Profile	240-400ml

## PADDY BLAST MANAGEMENT

- For leaf blast maintain water level at 3 -4 inches to ensure that soil is covered.
- Avoid late use of nitrogenous fertilizers.
- Control the disease with one of the following fungicides

S#	Common Name	Brand Name	Dose / Acre
1	Trifloxystrobin+Tebuconazole 75%WP	Nativo	65 gm
2	Azoxystrobin 25 % SC	Primacy	100 ml
3	Difenoconazole 250 EC	Score	125 ml

## SHEATH BLIGHT MANAGEMENT

- Plant at the optimum time for a specific variety. Avoid extremely early planting.
- Control the disease with one of the following fungicides

S#	Common Name	Brand Name	Dose / Acre
1	Trifloxystrobin+Tebuconazole 75%WP	Nativo	65 gm
2	Azoxystrobin +Difenoconazole	Amistar top, Reardo	200 ml
3	Hexaconazole	Contaf Plus	400 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	2-3 per net sweep.
Leaf Folder	2 rolled leaves per plant in July-August & 3 rolled leaves per plant in September-October.
Brown Plant Hopper	5 Nymphs or Adults per plant in July-August & 10 Nymphs or Adults per plant in September-October.
White Backed Plant Hopper	10 Nymphs or Adults per plant in July-August & 15 Nymphs or Adults per plant in September-October.
Hispa	1 per plant
Diseases	On appearance