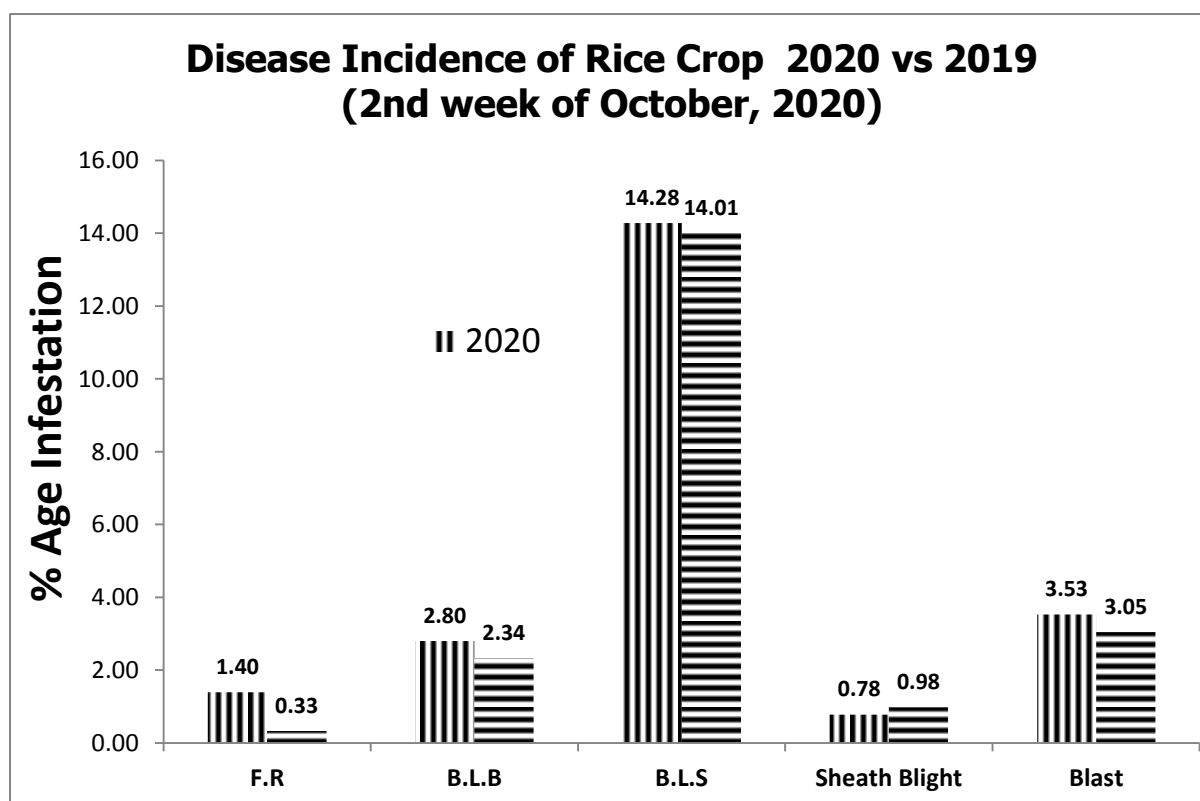
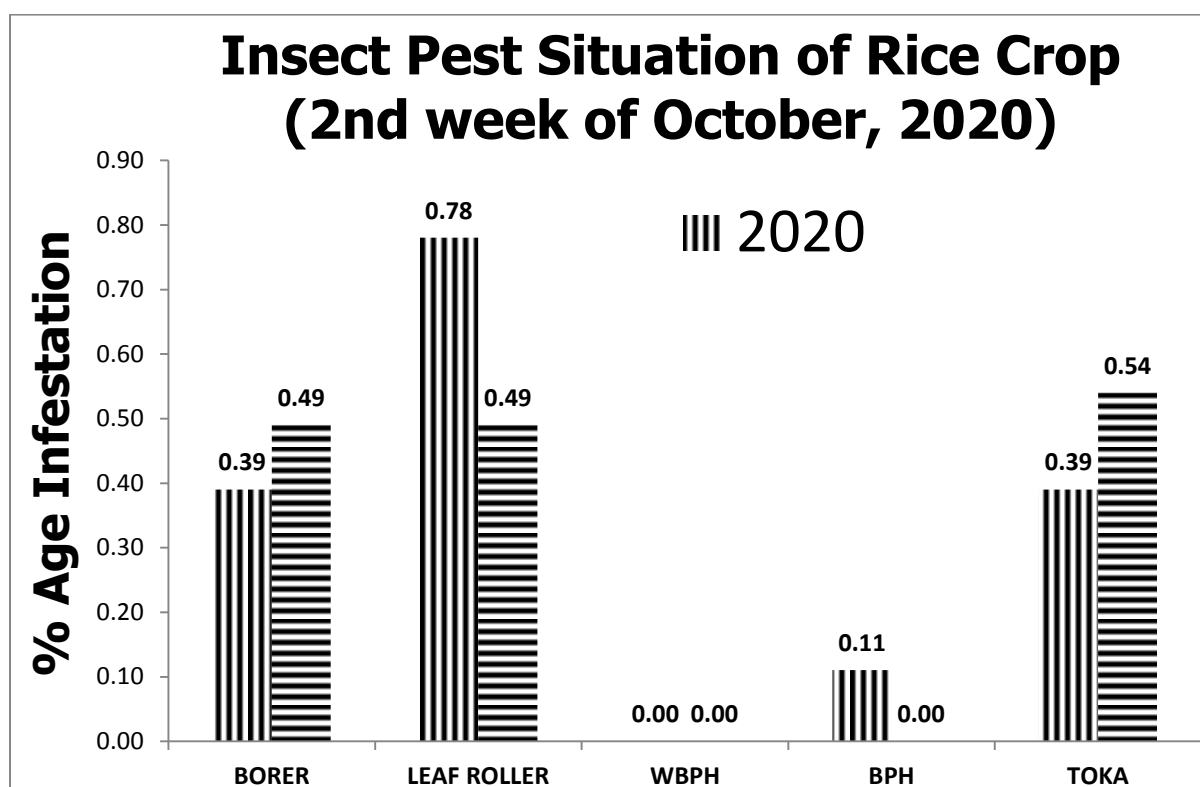


## GRAPHICAL PEST SITUATION ON RICE CROP IN PUNJAB DURING 2<sup>ND</sup> WEEK OF OCTOBER, 2020



## PEST SITUATION ON RICE CROP IN PUNJAB DURING 2<sup>ND</sup> WEEK OF OCTOBER, 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	0.39	8.45	0.31	8.58	0.49	8.66	Sustaining
2	LEAF FOLDER	0.78	10.47	1.80	14.17	0.49	10.52	Decreasing
3	WPBH	0.00	1.06	0.00	0.99	0.00	1.20	Low
4	BPH	0.11	2.69	0.25	2.11	0.00	4.36	Low
5	TOKA	0.39	18.81	1.55	19.20	0.54	12.10	Low
6	FOOT ROT	1.40	-	1.37	-	0.33	-	Sustaining
7	B.L.B	2.80	-	2.73	-	2.34	-	Sustaining
8	B.L.S	14.28	-	11.87	-	14.01	-	Increasing
9	SHEATH BLIGHT	0.78	-	0.31	-	0.98	-	Sustaining
10	BLAST	3.53	-	3.11	-	3.05	-	Increasing
NO. OF TOTAL SPOTS VISITED			1786					
TOTAL AREA VISITED (Acres)			13886					

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

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Ahmadpur	33	2	Bahawalpur	17
3	Minchinabad	3.4			

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

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Kabirwala	33	6	Mian Channu	17
2	Ahmadpur	22.2	7	Kot chutta	14.3
3	Khanewal	20.0	8	D.G Khan	12.5
4	Jahanain	20	9	Bahawalpur	11.1
5	Karor	20	10	Minchinabad	6.9

### 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

Sr.	TEHSIL	%AGE
1	Shakargarh	7.4

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

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Malikwal	5	4	M.B.Din	3
2	Narang Mandi	4.8	5	Nankana Sahib	2.7
3	Phalia	4.3	6	Lahore	1.7

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

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Dunya Pur	75	7	Burewala	10
2	Lodhran	60.0	8	Ferozwala	6.3
3	Kehror Pacca	50.0	9	Bhalwal	5.6
4	Jatoi	33	10	Pirmahal	4.5
5	Shahpur	20	11	Nankana Sahib	2.7
6	Vehari	13	12	Chunian	2.4

### Tehsil wise percentage of hot spots of Bacterial Leaf Blight

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Alipur	38	13	Pasrur	8
2	Multan	22.2	14	Sialkot	6.9
3	Layyah	20.0	15	Kamoki	6.1
4	Zafarwal	18	16	Kamalia	5.6
5	M.B.Din	10	17	Nankana Sahib	5.4
6	Sahiwal	10	18	Kharian	5.3
7	Gujrat	10	19	Noshehra Virkan	5.0
8	Malikwal	10	20	Sahiwal	5.0
9	Pirmahal	9	21	Daska	4.0
10	Phalia	8.7	22	Shakar Garh	3.7
11	Bhera	8.3	23	Sambrial	3.4
12	Pattoki	8.1	24	Ferozwala	2.1
			25	Lahore	1.7

### District wise percentage of hot spots of Brown Leaf Spots

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Jalal Pur	75	30	Malikwal	15
2	Jatoi	66.7	31	Shorkot	15.0
3	Sahiwal	65.0	32	Muridke	14.6
4	Khushab	48	33	Narang Mandi	14.3
5	Shahpur	47	34	Shahkot	14.3
6	Minchinabad	45	35	Pirmahal	13.6
7	Sarai Alamgir	40	36	Baddomalhi	12.8
8	Alipur	38	37	Lalian	12.1
9	Pindi Bhatian	35	38	Pasrur	12.0
10	Gujrat	30.0	39	Gujranwala	11.5
11	Hafizabad	28.6	40	Wazirabad	11.1
12	Sargodha	28.0	41	Kamalia	11.1
13	Quaidabad	27.3	42	Nankana Sahib	10.8
14	Kharian	26.3	43	Pattoki	10.8
15	Jalal pur Jattan	25.0	44	Chiniot	10.3
16	Bhera	25.0	45	Noshehra Virkan	10.0
17	Ahmadpur	22.2	46	Sheikhupura	10.0
18	M.B.Din	20.7	47	Safdarabad	9.4
19	Khanewal	20.0	48	Kamoki	9.1
20	Jahanain	20.0	49	Chak Jhumra	8.6
21	Layyah	20.0	50	Shakar Garh	7.4

22	Karor	20	51	Jaranwala	7.142857
23	Bhowana	18.181818	52	Sialkot	6.896552
24	Phalia	17.391304	53	Sambrial	6.896552
25	Lahore	16.949153	54	Sahiwal	6.896552
26	Ferozwala	16.666667	55	Narowal	6.666667
27	Kabirwala	16.666667	56	Pakpattan	4.444444
28	Mian Channu	16.666667	57	Sharqpur	4.255319
29	Zafarwal	15.151515	58	Daska	4

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

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Sahiwal	20	5	Sargodha	8
2	Silanwali	11.1	6	Lahore	3
3	Quaidabad	9.1	7	Khushab	3
4	Bhera	8	8	Nankana Sahib	3

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

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Silanwali	44	14	Pasrur	8
2	Sahiwal	40.0	15	Sargodha	8
3	Kot Addu	40.0	16	Sialkot	7
4	D.G Khan	25	17	Chiniot	7
5	Bhera	21	18	Minchinabad	6.9
6	Karor	20	19	Kasur	6.7
7	Shakar Garh	15	20	Pakpattan	6.7
8	Kot chutta	14	21	Khushab	6.5
9	Pirmahal	14	22	Kamoki	6.1
10	Alipur	12.5	23	Sambrial	3.4
11	Zafarwal	12.1	24	M.B.Din	3.4
12	Depalpure	9.1	25	Nankana Sahib	2.7
13	Daska	8.0	26	Chunian	2.4

## Meteorological data of the current week 2020-2021

METEOROLOGICAL DATA FOR THE 2ND WEEK OF OCTOBER, 2020								
Districts	2020				2019			
	Temperature		R.H%	Rainfall (mm)	Temperature		RH%	Rainfall (mm)
	Max.	Min.			Max.	Min.		
Gujranwala	37	20	62	0	37	20	69	0
Hafizbad	37	19	61	0	36	19	69.2	0
Sialkot	30	21	70	98	29	19	72	120
Narowal	30	17	80	0	33	18	72	0
Gujrat	36.4	24	64.73	0	30.2	20	79	52
M.B.Din	35	19	39	0	35	19	39	0
Lahore	36	26	55	0	34	24	65	0
Sheikhupura	35	25	54	0	32	20	67	11
Ferozwala	35	24	43	0	29	23	59	0
Nankana	31	22	60	0	32	21	58	0
Kasur	36	22	32	0	33	21	41	0
Faisalabad	36.68	20.74	62	0	35.5	20.5	54.5	0
Jhang	37	19	50	0	36	25	57	0
Toba Tek Singh	37	20	73	0	32	20	84	0
Multan	34	20	66	0	29	20	80	0
Khanewal	35	21	63	0	30	20	77	5
Vehari	34	21	67	0	31	23	80	0
Lodhran	36	22	61	0	31	21	79	0
Sahiwal	35	20	64	0	36	22	62	0
Pakpattan	35	22	54	0	36	23	54	0
Okara	36	24	76	0	35	25	75	0
Bahawalpur	37	22	44	0	34	20	66	6
Bahawalnagar	38	21	53	0	33	21	56	0
R.Y.Khan	37	24	47	0	36	22	80	0
D.G. Khan	36	22	55	0	37	23	50	0
Muzaffar Garh	36	22	51	0	34	25	36	16
Rajanpur	39	24	61	0	37	20	60	0
Layyah	34	21	57	0	34	20	60	0
<b>TOT/AVG</b>	<b>35.47</b>	<b>21.49</b>	<b>57.94</b>	<b>3.50</b>	<b>33.39</b>	<b>21.21</b>	<b>64.34</b>	<b>7.49</b>

<b>Pest Forecast for Next 15 days</b>				
Avg. Temperature for next 15 days = <b>21.4°C</b>				
Avg. Relative Humidity for next 15 days= <b>12.43%</b>				
Sr. No.	Pest Name	Opt. Temperature	%Humidity	Pest Prediction
1	Rice Borer	17-30°C	45-80%	May Sustain
2	Leaf Folder	25-30°C	45-80%	May Decrease
3	WPBH	25-29°C	80-90%	May be Low
4	BPH	28-30°C	>80-90%	May be Low
5	TOKA	24-40°C	30-80%	May be Low
6	FOOT ROT	30-35°C	<70%	May Sustain
7	B.L.B	25-34°C	<70%	May Sustain
8	B.L.S	16-36°C	86-100%	<b>May Increase</b>
9	SHEAT H BLIGHT	28-32°C	85-100%	May Sustain
10	BLAST	25-30°C	90-95%	<b>May Increase</b>

## **RECOMMENDATION**

### **RICE BORER MANAGEMENT**

- Use resistant varieties.
- Discard the infested plants while transplanting.
- Ensure proper timing of planting and synchronous planting, harvest crops at ground level to remove the larvae in stubble, remove stubble and volunteer rice, plow and flood the field.
- At seedbed and transplanting, handpick and destroy egg masses.
- Raise level of irrigation water periodically to submerge the eggs deposited on the lower parts of the plant.
- Clipp off the tips of the seedlings at the time of transplanting because the eggs of yellow and white stem borers are laid near the tip of the leaf blade. It will reduce a considerable number of egg masses and young larvae of the stem borers.
- Install light traps up to September to monitor moth population of stem borers.
- Use balanced Fertilizers (NPK) within 45 days after transplanting of nursery.
- Complete application of urea up to 31st August because due to late application of Urea, the plant becomes succulent and dark-green which attracts the insects, especially stem borers and leaf roller and helps in their rapid multiplication.

## BROWN LEAF SPOT MANAGEMENT

- Use resistant varieties.
- Contact your local agriculture office for an up-to-date list of available varieties.
- Follow rice with a different crop, or fallow period.
- Avoid ratooning.
- Flood and plow field after harvesting if possible.
- Remove grassy weeds from fields and borders.
- Reduce density of planting.

## FOOT ROT SPOT MANAGEMENT

- Avoid sowing of seed obtained from infected crop.
- Uproot the diseased plants and destroy them.
- Use Potash 1 Bag within 14 days.

## 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 3-4 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	200 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