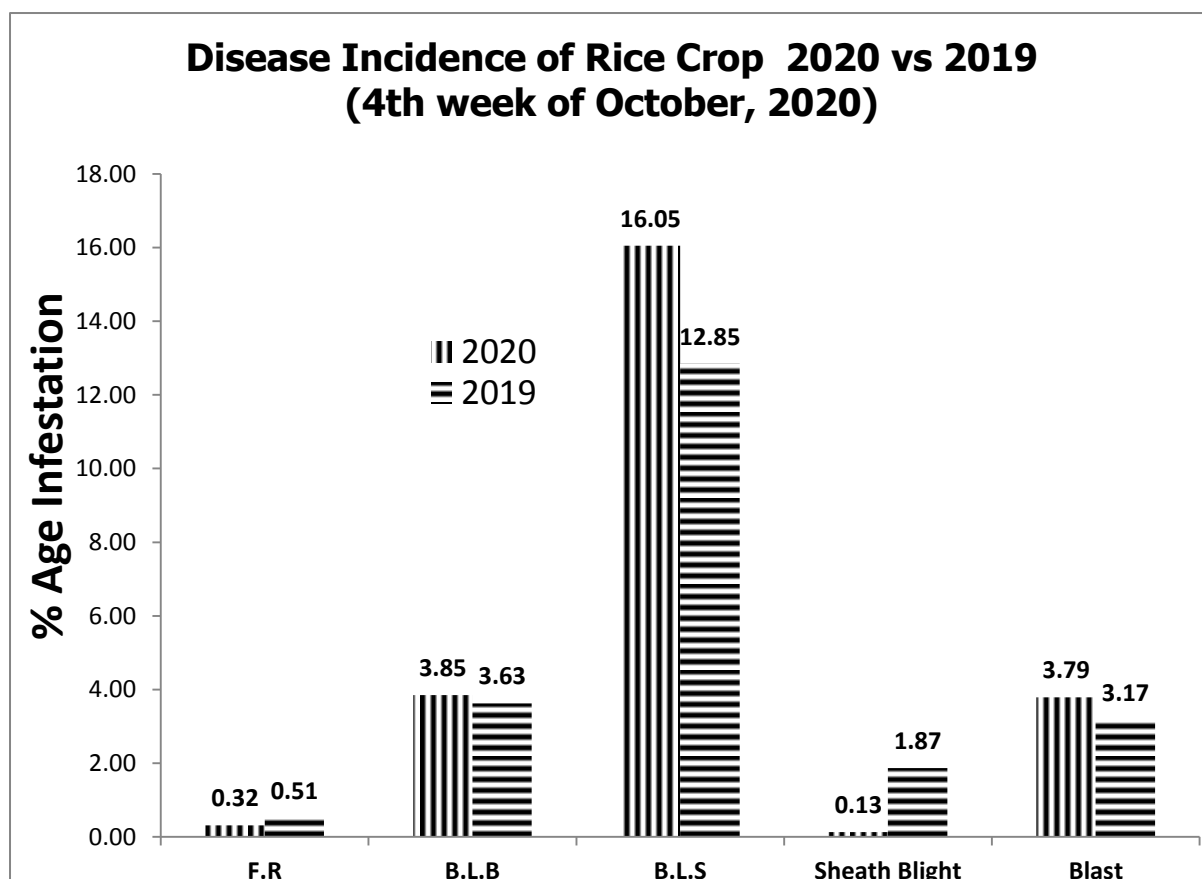
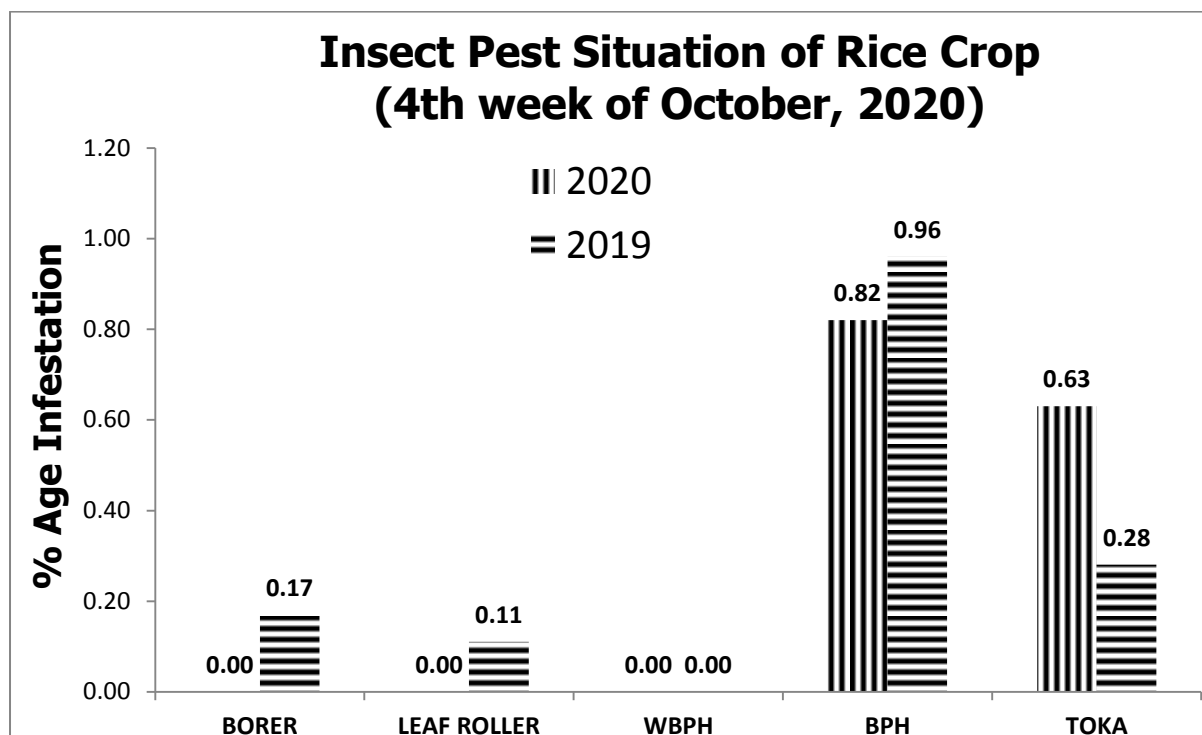


GRAPHICAL PEST SITUATION ON RICE CROP IN PUNJAB DURING 4TH WEEK OF OCTOBER, 2020



PEST SITUATION ON RICE CROP IN PUNJAB DURING 4TH 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	0.00	7.45	0.44	7.72	0.17	4.58	Low
2	LEAF FOLDER	0.00	4.93	0.51	7.97	0.11	3.46	Low
3	WPBH	0.00	1.20	0.00	1.71	0.00	1.47	Low
4	BPH	0.82	7.26	0.32	4.05	0.96	5.78	Sustaining
5	TOKA	0.63	18.07	0.44	17.33	0.28	12.53	Sustaining
6	FOOT ROT	0.32	-	0.38	-	0.51	-	Sustaining
7	B.L.B	3.58	-	2.97	-	3.63	-	Increasing
8	B.L.S	16.05	-	15.50	-	12.87	-	Increasing
9	SHEATH BLIGHT	0.13	-	0.19	-	1.87	-	Low
10	BLAST	3.70	-	4.24	-	3.17	-	Decreasing
NO. OF TOTAL SPOTS VISITED			1583					
TOTAL AREA VISITED (Acres)			11751					

Tehsil wise percentage of hot spots of Rice Borer

No hot spot found.

Tehsil wise percentage of hot spots of Rice Leaf Folder

No hot spot found.

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	Sr.	TEHSIL	%AGE
1	Minchinabad	20	4	Pasrur	6.1
2	Quaidabad	11	5	Shakar Garh	3.3
3	Narowal	10			

Tehsil wise percentage of hot spots of Rice Toka

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Gujranwala	8	5	Jaranwala	4
2	Chak Jhumra	7	6	Sharqpur	4
3	Noshehra Virkan	7	7	M.B.Din	3
4	Malikwal	5	8	Lahore	2

Tehsil wise percentage of hot spots of Foot Rot

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Kehror Pacca	25	3	Dunya Pur	17
2	Lodhran	22			

Tehsil wise percentage of hot spots of Bacterial Leaf Blight

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Alipur	38	12	Daska	10
2	Sahiwal	23	13	Sambrial	10
3	Malikwal	21	14	Pasrur	9
4	Phalia	21	15	Kharian	9
5	Zafarwal	21	16	Jatoi	6.7
6	Sialkot	19	17	Baddomalhi	6.5
7	M.B.Din	17	18	Kamalia	6.5
8	Jalal pur Jattan	17	19	Ferozwala	5.6
9	Dunya Pur	17	20	Nankana Sahib	4.5
10	Gujrat	14	21	Shakar Garh	3.3
11	Kehror Pacca	13	22	Pattoki	2.7
			23	Lahore	1.6

District wise percentage of hot spots of Brown Leaf Spots

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Jatoi	100	32	Gujranwala	15
2	Jalal Pur	67	33	Shahkot	15
3	Mian Channu	67	34	Shorkot	15
4	Jahanain	57	35	Noshehra Virkan	14
5	Minchinabad	57	36	Chiniot	14
6	Sahiwal	50	37	Ferozwala	14
7	Khanewal	50	38	Nankana Sahib	14
8	Kabirwala	50	39	Pirmahal	13
9	Quaidabad	44	40	Safdarabad	13
10	Gujrat	43	41	Sialkot	13
11	Ahmadpur	43	42	Baddomalhi	13
12	Jalal pur Jattan	42	43	Kamalia	13
13	Khushab	42	44	Narang Mandi	11
14	Kehror Pacca	38	45	Chak Jhumra	11
15	Hafizabad	33	46	Pattoki	11
16	Sarai Alamgir	33	47	Kamoki	11
17	Kharian	32	48	Daska	10
18	Pindi Bhatian	32	49	Narowal	10
19	Vehari	30	50	Muridke	10
20	Kot Addu	27	51	Burewala	10
21	Lodhran	22	52	Pasrur	9.1
22	Malikwal	21	53	Jaranwala	8.3
23	M.B.Din	21	54	Sheikhupura	7.9
24	Lalian	20	55	Pakpattan	7.9
25	Shujabad	20	56	Sharqpur	7.1
26	Layyah	20	57	Mailsi	7.1
27	Karor	20	58	Bhowana	6.9
28	Zafarwal	17.2	59	Shakar Garh	6.7
29	Phalia	16.7	60	Sambrial	4.8
30	Dunya Pur	16.7	61	Sahiwal	4.5
31	Lahore	16.4	62	Silanwali	3.2

Tehsil wise percentage of hot spots of Sheath Blight

Sr.	TEHSIL	%AGE
1	Silanwali	6

Tehsil wise percentage of hot spots of Rice Blast

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Karor	40	14	Shakar Garh	10
2	Bhalwal	33	15	Minchinabad	10
3	Kot chutta	33	16	Sialkot	10
4	D.G Khan	29	17	Pasrur	9
5	Layyah	20	18	Khushab	8
6	Sahiwal	19	19	Pakpattan	8
7	Zafarwal	17	20	Kasur	7
8	Bhera	17	21	Pirmahal	7
9	Silanwali	16	22	Nankana Sahib	5
10	Depalpure	16	23	Sahiwal	5
11	Sambrial	14	24	Kamalia	3
12	Quaidabad	11	25	Pattoki	3
13	Daska	10			

Meteorological data of the current week 2020-2021

METEOROLOGICAL DATA FOR THE 4TH WEEK OF OCTOBER, 2020								
Districts	2020				2019			
	Temperature		R.H%	Rainfall (mm)	Temperature		RH%	Rainfall (mm)
	Max.	Min.			Max.	Min.		
Gujranwala	31	16	71	0	33	18	70	0
Hafizbad	32	16	68	0	32.4	21	70	0
Sialkot	28	17	65	0	27	16	66	27
Narowal	22	12	63	5	29	14	68	0
Gujrat	36.4	24	64.73	0	30.2	20	79	52
M.B.Din	31	15	44	0	30	12	53	7
Lahore	31	19	56	0	30	20	60	0
Sheikhupura	31	18	46	0	24	15	53	2
Ferozwala	31	17	58	0	31	18	50	0
Nankana	32	16	31	0	31	18	45	0
Kasur	33	16	35	0	31	19	18	0
Faisalabad	35	16	67	0	35	17	59	0
Jhang	33	15	46	0	32	17	59	0
Toba Tek Singh	35	15	81	0	32	17	84	0
Multan	30	16	74	0	30	19	77	0
Khanewal	31	17	72	0	30	18	68	0
Vehari	32	18	71	0	32	19	67	0
Lodhran	31	17	71	0	32	19	67	0
Sahiwal	33	16	73	0	33	18	71	0
Pakpattan	34	18	68	0	35	19	69	0
Okara	32	22	78	0	33	24	75	0

Bahawalpur	32	17	53	0	33	18	50	0
Bahawalnagar	35	17	54	0	34	18	52	0
R.Y.Khan	33	17	42	0	37	21	79	0
D.G. Khan	34	16	72	0	34	21	50	0
Muzaffar Garh	34	21	48	0	33	20	46	0
Rajanpur	39	16	63	0	36	20	56	0
Layyah	31	16	71	0	33	18	61	3
TOT/AVG	32.14	16.99	60.82	0.18	31.87	18.37	61.45	3.25

Pest Forecast for Next 15 days				
Avg. Temperature for next 15 days = 26.45°C				
Avg. Relative Humidity for next 15 days= 15.52%				
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 be Low
3	WPBH	25-29°C	80-90%	May be Low
4	BPH	28-30°C	>80-90%	May Sustain
5	TOKA	24-40°C	30-80%	May Sustain
6	FOOT ROT	30-35°C	<70%	May Sustain
7	B.L.B	25-34°C	<70%	May Increase
8	B.L.S	16-36°C	86-100%	May Increase
9	SHEATH BLIGHT	28-32°C	85-100%	May be Low
10	BLAST	25-30°C	90-95%	May Decrease

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