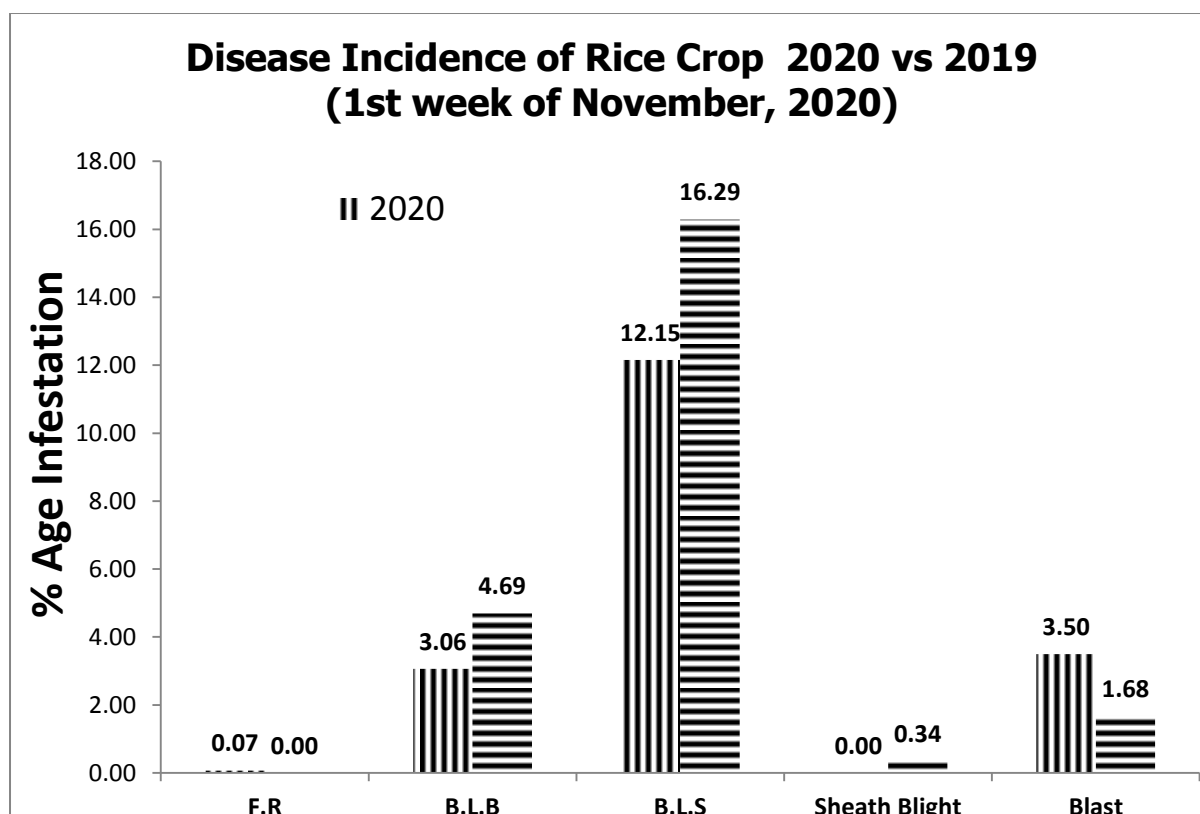
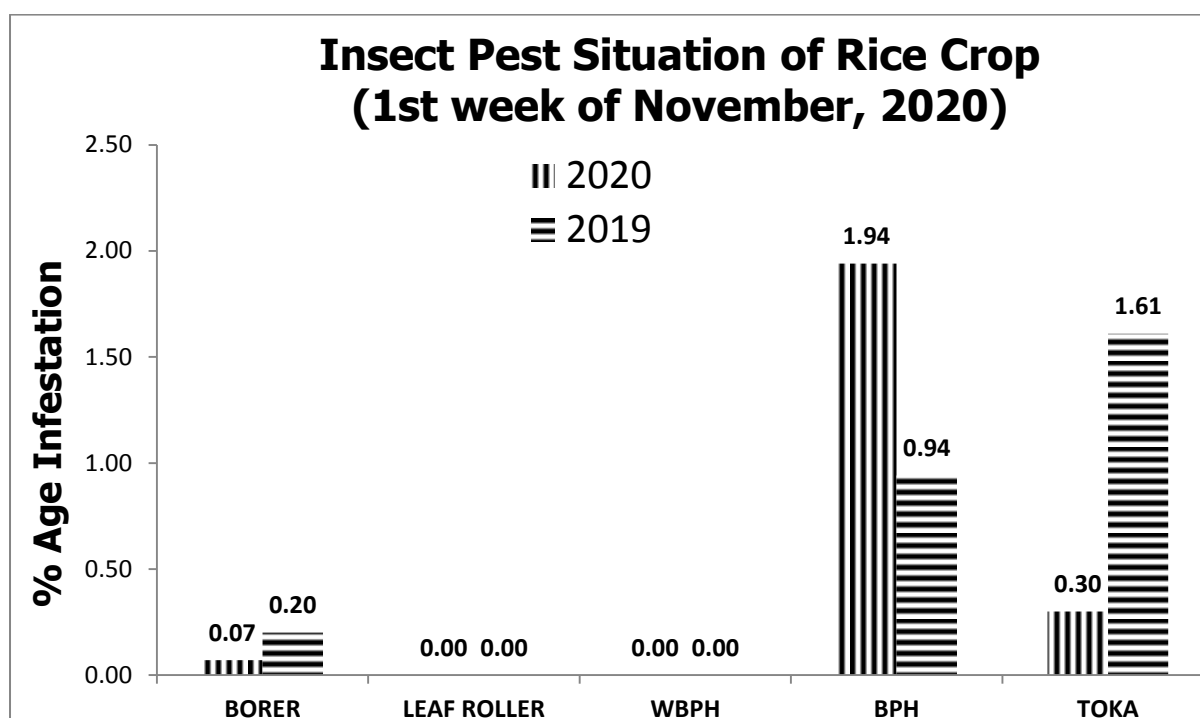


GRAPHICAL PEST SITUATION ON RICE CROP IN PUNJAB DURING 1ST WEEK OF NOVEMBER, 2020



PEST SITUATION ON RICE CROP IN PUNJAB DURING 1ST WEEK OF NOVEMBER, 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	0.07	4.17	0.00	7.45	0.20	4.76	Low	
2	LEAF FOLDER	0.00	1.94	0.00	4.93	0.00	2.75	Low	
3	WPBH	0.00	3.50	0.00	1.20	0.00	2.41	Low	
4	BPH	1.94	8.12	0.82	7.26	0.94	6.43	Increasing	
5	TOKA	0.30	18.03	0.63	18.07	1.61	12.33	Low	
6	FOOT ROT	0.07	-	0.32	-	0.00	-	Low	
7	B.L.B	3.06	-	3.85	-	4.69	-	Low	
8	B.L.S	12.15	-	16.05	-	16.29	-	Decreasing	
9	SHEAT H BLIGHT	0.00	-	0.13	-	0.34	-	Low	
10	BLAST	3.50	-	3.79	-	1.68	-	Decreasing	
NO. OF TOTAL SPOTS VISITED		1342							
TOTAL AREA VISITED (Acres)		8409.5							

Tehsil wise percentage of hot spots of Rice Borer

Sr.	TEHSIL	%AGE
1	Ferozwala	3

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	40	6	Sambrial	5
2	Shakar Garh	17	7	Daska	5
3	Pasrur	15	8	Sialkot	4
4	Baddomalhi	13	9	Zafarwal	2
5	Gujrat	6			

Tehsil wise percentage of hot spots of Rice Toka

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Malikwal	6	3	M.B.Din	4
2	Phalia	5	4	Sharqpur	2

Tehsil wise percentage of hot spots of Foot Rot

Sr.	TEHSIL	%AGE
1	Kasur	7

Tehsil wise percentage of hot spots of Bacterial Leaf Blight

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Jalal Pur	57	10	Shakar Garh	9
2	Sialkot	25	11	Pirmahal	7
3	Phalia	20	12	Gujrat	6
4	Zafarwal	19	13	Sahiwal	5
5	Kabirwala	17	14	Sambrial	5
6	M.B.Din	13	15	Daska	5
7	Kharian	13	16	Pasrur	5
8	Malikwal	12	17	Kot Radha Kishan	3
9	Jalal pur Jattan	10	18	Ferozwala	3

Tehsil wise percentage of hot spots of Brown Leaf Spots

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Minchinabad	64	24	Multan	14
2	Sarai Alamgir	50	25	Shujabad	14
3	Khushab	45	26	Jalal Pur	14
4	Jalal pur Jattan	40	27	Safdarabad	14
5	Sahiwal	40	28	Narowal	13.3
6	Mian Channu	40	29	Shakar Garh	13.0
7	Quaidabad	39	30	M.B.Din	13.0
8	Kharian	38	31	Lahore	12.2
9	Gujrat	35	32	Malikwal	12
10	Gujranwala	33	33	Sahiwal	11
11	Pindi Bhatian	26	34	Sambrial	10
12	Ahmadpur	25	35	Pasrur	10
13	Hafizabad	22	36	Phalia	10
14	Sialkot	21	37	Chak Jhumra	10
15	Baddomalhi	20	38	Muridke	9
16	Khanewal	20	39	Sharqpur	9
17	Lalian	18	40	Sheikhupura	6
18	Narang Mandi	17	41	Kot Radha Kishan	6
19	Chiniot	17	42	Kamoki	6
20	Jahanain	17	43	Daska	5
21	Kabirwala	17	44	Ferozwala	5
22	Bhowana	16	45	Pakpattan	5
23	Zafarwal	14	46	Jaranwala	4

Tehsil wise percentage of hot spots of Sheath Blight

No hot spot found.

Tehsil wise percentage of hot spots of Rice Blast

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Hasilpur	42	12	Zafarwal	12
2	Karor	40	13	Sialkot	8
3	Depalpure	28	14	Kasur	7
4	Kot chutta	25	15	Pirmahal	7
5	Ahmadpur	25	16	Khushab	6.9
6	Sahiwal	20	17	Chunian	5.7
7	Layyah	20	18	Quaidabad	5.6
8	D.G Khan	20	19	Sahiwal	5.3
9	Bahawalpur	18	20	Sambrial	5
10	Pasrur	15	21	Daska	5
11	Minchinabad	12	22	Pakpattan	2

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	29	15	69	0	30	18	71	0
Hafizbad	30	14	70	0	29.6	18.35	70.5	0
Sialkot	28	17	65	0	27	16	66	27
Narowal	27	14	81	0	27	12	68	0
Gujrat	29.13	13.14	33	0	32	17	32	0
M.B.Din	29	14	42	0	27	11	51	3
Lahore	29	18	54	0	27	17	58	0
Sheikhupura	30	15	46	0	28	18	54	0
Ferozwala	30	19	42	0	30	17	43	0
Nankana	29	14	33	0	29	18	43	0
Kasur	30	13	31	0	29	19	19	2
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	15	70	0	30	18	81	0
Khanewal	31	15	72	0	30	18	68	1
Vehari	30	21	72	0	30	18	62	0
Lodhran	30	15	72	0	30	20	68	0
Sahiwal	31	13	60	0	30	17	77	0
Pakpattan	33	14	53	0	32	15	54	0
Okara	35	17	75	0	34	17	75	0
Bahawalpur	32	32	54	0	32	19	66	0
Bahawalnagar	32	15	52	0	33	17	57	0
R.Y.Khan	34	18	42	0	32	19	79	0
D.G. Khan	34	14	74	0	30	19	50	0
Muzaffar Garh	29	14	54	0	28	17	43	0
Rajanpur	35	16	65	0	31	16	61	5
Layyah	31	13	71	0	27	15	81	0
TOT/AVG	31.08	15.83	58.73	0.00	30.10	16.98	60.70	1.35

Pest Forecast for Next 15 days				
Avg. Temperature for next 15 days = 21.15°C				
Avg. Relative Humidity for next 15 days= 10.22%				
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 Increase
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 be Low
8	B.L.S	16-36°C	86-100%	May Decrease
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