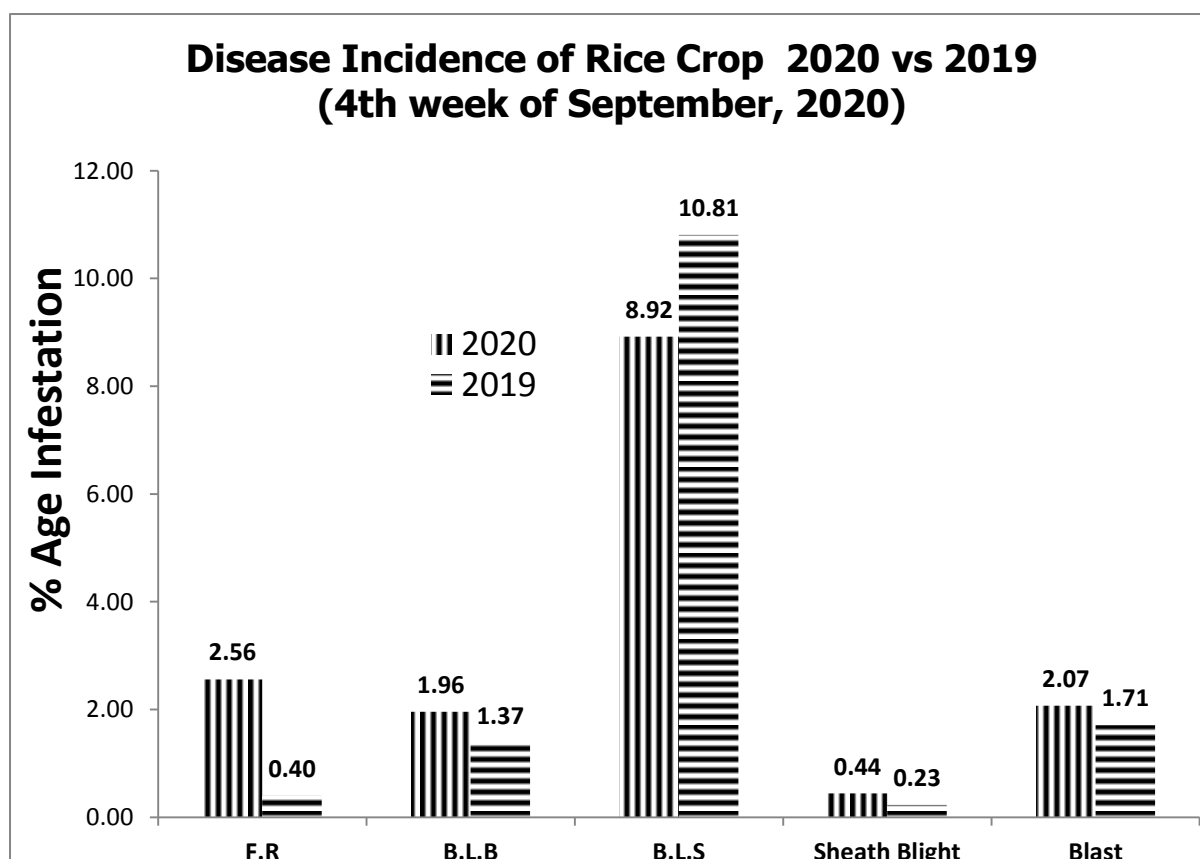
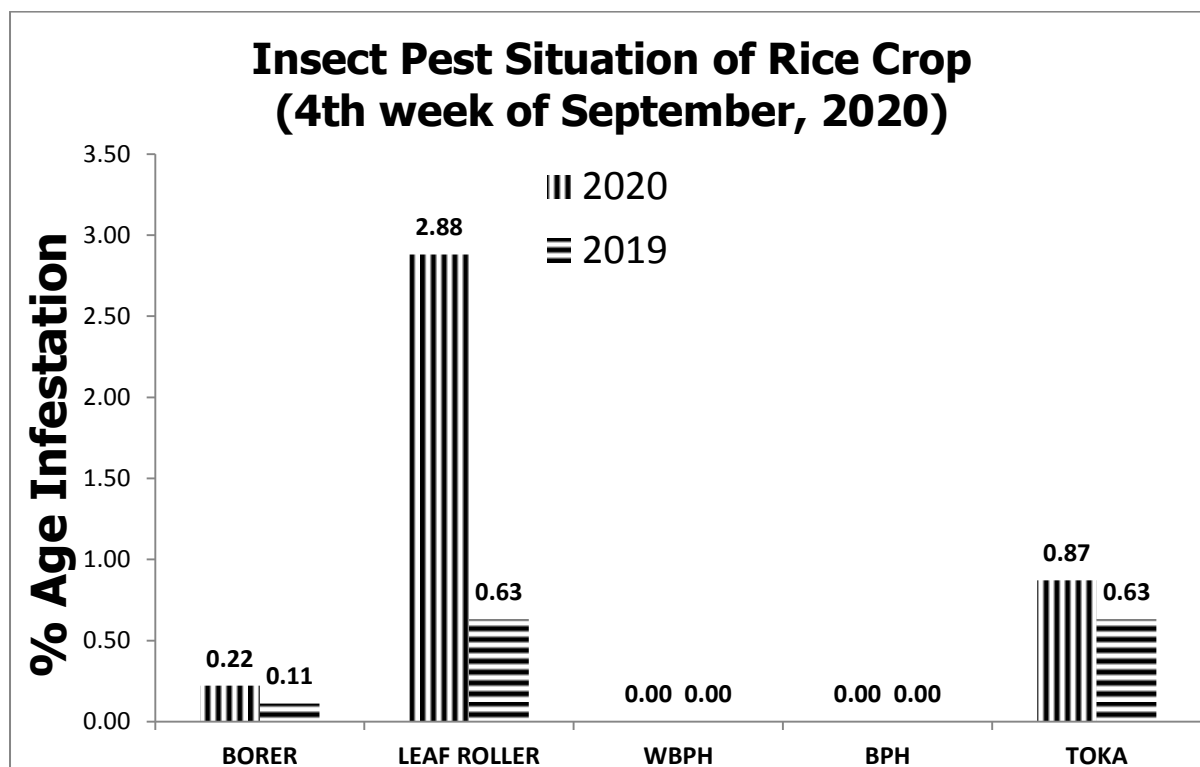


GRAPHICAL PEST SITUATION ON RICE CROP IN PUNJAB DURING 4TH WEEK OF SEPTEMBER, 2020



PEST SITUATION ON RICE CROP IN PUNJAB DURING 4TH 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	0.22	9.90	0.32	8.40	0.11	8.65	Low
2	Leaf Folder	2.88	18.82	2.43	18.38	0.63	11.55	Increasing
3	WPBH	0.00	0.22	0.00	0.00	0.00	0.00	Low
4	BPH	0.00	1.20	0.00	1.00	0.00	3.36	Increasing
5	TOKA	0.87	17.90	0.79	16.75	0.63	14.28	Low
6	FOOT ROT	2.56	-	3.65	-	0.40	-	Decreasing
7	B.L.B	1.96	-	1.11	-	1.37	-	Increasing
8	B.L.S	8.92	-	6.71	-	10.81	-	Increasing
9	SHEAT H BLIGHT	0.44	-	0.26	-	0.23	-	Low
10	BLAST	2.07	-	1.00	-	1.71	-	Increasing
NO. OF TOTAL SPOTS VISITED		1838						
TOTAL AREA VISITED (Acres)		14049						

Tehsil wise percentage of hot spots of Rice Borer

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Minchinabad	10.00	2	Pakpattan	3.57

Tehsil wise percentage of hot spots of Rice Leaf Folder

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Mian Channu	40.00	17	Chak Jhumra	7.69
2	Karor	40.00	18	Shakar Garh	6.67
3	Dunya Pur	25.00	19	Kharian	6.67
4	D.G Khan	25.00	20	Minchinabad	6.67
5	Kot chutta	22.22	21	Bhowana	5.88
6	Khanewal	20.00	22	Bahawalpur	5.56
7	Jahanain	20.00	23	Muridke	5.00
8	Kabirwala	20.00	24	Sahiwal	5.00
9	Kehror Pacca	20.00	25	Phalia	4.35
10	Layyah	20.00	26	Gujrat	3.57
11	Shahpur	18.75	27	M.B.Din	3.45
12	Lalian	15.79	28	Sahiwal	3.23
13	Lodhran	14.29	29	Chiniot	2.70
14	Jalal pur Jattan	10.00	30	Jaranwala	2.08
15	Shorkot	10.00	31	Pirmahal	2.00
16	Safdarabad	8.33	32	Sharqpur	1.64

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 Rice Toka

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Nankana Sahib	5.71	6	Narang Mandi	3.28
2	Safdarabad	5.00	7	Bhowana	2.94
3	Muridke	5.00	8	Chiniot	2.70
4	Phalia	4.35	9	Shahkot	2.44
5	M.B.Din	3.45	10	Lahore	1.69

Tehsil wise percentage of hot spots of Foot Rot

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Kot Addu	38.46	10	Shahpur	6.25
2	Muzaffargarh	22.22	11	Lalian	5.26
3	Ferozwala	18.18	12	Sahiwal	5.00
4	Pirmahal	16.00	13	Sharqpur	4.92
5	Kamalia	11.43	14	Safdarabad	3.33
6	Nankana Sahib	8.57	15	Narang Mandi	3.28
7	Muridke	8.33	16	Pattoki	2.33
8	Shahkot	7.32	17	Sheikhupura	2.02
9	Silanwali	7.14			

Tehsil wise percentage of hot spots of Bacterial Leaf Blight

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Jalal Pur	57.14	11	Baddomalhi	7.14
2	Pindi Bhatian	10.71	12	Sahiwal	6.45
3	M.B.Din	10.34	13	Sambrial	5.88
4	Noshehra Virkan	10.00	14	Daska	5.88
5	Kamoki	9.68	15	Pasrur	5.00
6	Phalia	8.70	16	Malikwal	5.00
7	Sialkot	8.00	17	Gujranwala	4.35
8	Bhera	8.00	18	Gujrat	3.57
9	Hafizabad	7.69	19	Shakar Garh	3.33
10	Zafarwal	7.41			

District wise percentage of hot spots of Brown Leaf Spots

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Kot Addu	100.00	24	Lahore	11.86
2	Khushab	53.85	25	Sambrial	11.76
3	Kharian	46.67	26	Noshehra Virkan	10.00
4	Shakar Garh	40.00	29	Pasrur	10.00
5	Vehari	40.00	27	Malikwal	10.00
6	Minchinabad	36.67	29	Bhowana	8.82

7	Burewala	30.00	30	Nankana Sahib	8.57
8	Ferozwala	27.27	31	Kamalia	8.57
9	Sarai Alamgir	25.00	32	Narang Mandi	8.20
10	Ahmadpur	25.00	33	Sialkot	8.00
11	Gujrat	21.43	34	Pirmahal	8.00
12	M.B.Din	20.69	35	Pakpattan	7.14
13	Jalal pur Jattan	20.00	36	Kamoki	6.45
14	Sahiwal	20.00	37	Daska	5.88
15	Zafarwal	18.52	38	Chiniot	5.41
16	Pindi Bhatian	17.86	39	Chak Jhumra	5.13
17	Phalia	17.39	40	Shahkot	4.88
18	Lalian	15.79	41	Sheikhupura	4.04
19	Hafizabad	15.38	42	Wazirabad	4.00
20	Multan	14.29	43	Safdarabad	3.33
21	Shujabad	14.29	44	Narowal	3.23
22	Jalal Pur	14.29	45	Sahiwal	3.23
23	Mailsi	14.29	46	Pattoki	2.33

Tehsil wise percentage of hot spots of Sheath Blight

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	Bhera	8.00	4	Gujrat	3.57
2	Wazirabad	4.00	5	Lahore	3.39
3	Pindi Bhatian	3.57	6	Kamoki	3.23

Tehsil wise percentage of hot spots of Rice Blast

Sr.	TEHSIL	%AGE	Sr.	TEHSIL	%AGE
1	D.G Khan	25.00	12	Khushab	7.69
2	Kot chutta	22.22	13	Sahiwal	7.50
3	Kharian	20.00	14	Zafarwal	7.41
4	Karor	20.00	15	Pakpattan	7.14
5	Silanwali	14.29	16	Minchinabad	6.67
6	Sambrial	11.76	17	Lalian	5.26
7	Daska	11.76	18	Kasur	4.26
8	Pasrur	10.00	19	Chunian	4.08
9	Burewala	10.00	20	Kamoki	3.23
10	Sialkot	8.00	21	Narang Mandi	1.64
11	Bhera	8.00			

Meteorological data of the current week 2020-2021

METEOROLOGICAL DATA FOR THE 4TH WEEK OF SEPTEMBER, 2020 RICE ZONE								
Districts	2020				2019			
	Temperature		R.H%	Rainfall (mm)	Temperature		RH%	Rainfall (mm)
	Max.	Min.			Max.	Min.		
Gujranwala	34	23	62	0	34	22	63	0
Hafizbad	36	23	63	0	35	27	71	0
Sialkot	32	20	72	10.5	30	18	74	0
Narowal	33	21	83	11	35	23	83	0
Gujrat	38	28	68	0	35	26	69	0
M.B.Din	36	22	44	0	36	22	43	0
Lahore	36	26	55	0	34	24	65	0
Sheikhupura	38	28	46	0	37	25	52	0
Ferozwala	37	25	35	0	37	25	52	0
Nankana	37	26	58	0	34	21	50	0
Kasur	38	25	44	0	34	26	49	0
Faisalabad	36	23	63	0	35	27	71	0
Jhang	38	28	68	0	35	26	69	0
Toba Tek Singh	39	27	82	0	39	27	83	0
Multan	37	25	68	0	35	27	77	0
Khanewal	38	26	65	0	36	27	66	0
Vehari	37	26	68	0	35	27	71	0
Lodhran	38	26	61	0	35	28	69	0
Sahiwal	34	25	68	0	34	26	67	0
Pakpattan	36	28	54	0	37	29	54	0
Okara	35	24	78	0	33	24	75	0
Bahawalpur	39	26	54	0	37	26	65	0
Bahawalnagar	40	26	55	0	39	27	60	0
R.Y.Khan	40	27	76	0	40	24	80	0
D.G. Khan	40	26	60	0	39	27	51	0
Muzaffar Garh	39	28	40	0	38	28	32	0
Rajanpur	41	30	62	0	42	28	66	0
Layyah	38	23	61	0	35	24	49	0
TOT/AVG	37.13	25.45	61.14	5.04	35.83	25.51	63.36	0.00
Pest Forecast for Next 15 days								
Avg. Temperature for next 15 days = 29.53 °C								
Avg. Relative Humidity for next 15 days= 20.27%								
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%	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 Decrease				
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 Increase				

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, relood 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