

PEST SITUATION ON RICE CROP IN PUNJAB DURING 4th WEEK OF JULY, 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	0.55	3.18	0.35	2.29	0.00	1.24	Stable
2	Leaf Folder	0.00	0.33	0.00	0.35	0.00	0.06	Stable
3	WPBH	0.00	0.00	0.00	0.00	0.00	0.00	-
4	BPH	0.00	0.00	0.00	0.00	0.00	0.00	-
5	TOKA	0.88	8.55	0.55	8.11	0.19	2.74	Stable
6	FOOT ROT	3.51	-	1.59	-	2.86	-	Increasing
7	B.L.B	0.05	-	0.00	-	0.00	-	Stable
8	B.L.S	0.11	-	0.07	-	0.00	-	Stable
9	SHEAT H BLIGHT	0.05	-	0.07	-	0.06	-	Stable
10	BLAST	0.05	-	0.00	-	0.00	-	Stable
NO. OF TOTAL SPOTS VISITED			1825					
TOTAL AREA VISITED (Acres)			16602					

Tehsil wise percentage of hot spots of Rice Borer

Sr#	TEHSIL	%AGE
1	Chiniot	3.22

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

No hot spot found.

Tehsil wise percentage of hot spots of Toka

Sr#	TEHSIL	%AGE
1	Baddo Malhi.	10.34
2	Shakar Garh	5
3	Zafer wall	5
4	Narowal	4.54
5	Chiniot	3.22
6	Daska	2.70
7	Muridka	2.56
8	Lahore	0.96

Tehsil wise percentage of hot spots of Foot Rot

Sr#	TEHSIL	%AGE
1	Mian Chano	50
2	Baddomali	17.24
3	Kabir wala	14.28
4	Pasror	12.5
5	Malkwal	11.76
6	Narowal	11.36
7	Kasur	9.67
8	Sambrial	9.09
9	Pattoki	9.10
10	Daska	8.10
11	Chunian	7.89
12	Ferozwala	6.66
13	Hafiz Abad	5.76
14	Phalia	5.55
15	Safder Abad	5.26
16	Lahore	4.8
17	Pindi Bhattian	4.6
18	Nankana	4.16
19	Shah Pur	4.16
20	Gujranwala	3.03
21	Kamon ke	2.70
22	Zaferwal	2.5

Tehsil wise percentage of hot spots of Bacterial Leaf Blight

Sr#	TEHSIL	%AGE
1	Sargodha	3.85

Tehsil wise percentage of hot spots of Bacterial Leaf Spot

Sr#	TEHSIL	%AGE
1	Vehari	20
2	Nankana	2.08

Tehsil wise percentage of hot spots of Blast

Sr#	TEHSIL	%AGE
1	Kot chatta	11.11

Tehsil wise percentage of hot spots of Sheath Blight

Sr#	TEHSIL	%AGE
1	Noshehra Virkan	3.70

FORECAST FOR THE NEXT WEEK

Meteorological data of the current week 2019-2020

METEOROLOGICAL DATA FOR THE 4TH WEEK JULY 2020 RICE ZONE								
Districts	2020				2019			
	Temperature		R.H%	Rainfall (mm)	Temperature		RH%	Rainfall (mm)
	Max.	Min.			Max.	Min.		
LAHORE	39	31.42857	69	0	39.42857	30.85714	60.71429	0
SHEIKHUPURA	37.06	26.21	58.5	34	34.56	25.05	69	86.5
FEROZWALA	34.77	27.88	57.72	5	34.28	26.62	71.5	35
NANKANA	38	26.88	58.17	50	35.86	27.29	75	16
KASUR	33.71	25.57	58.85	11.42	35	27.71	66.85	4.28
GUJRANWALA	37.51	28.44	64.87	3.11	34.54	23.89	77.84	31.17
HAFIZABAD	38	30	55	4	38.14	28.76	36.14	1
NAROWAL	33	22	81.83	0	35	23.57	74.57	135
GUJRAT	39.57	33.26	0.53	Traces	33	26	70	42
M.B.DIN	42	27	43	11	37	25.71	56	13.65
MULTAN	35.6	28.4	81	63.6	38.28571	30.57143	67.64286	0
KHANEWAL	36.28571	29	61.28571	15	38.25	30.3125	65.875	2
VEHARI	37	28.28571	73.5	63	39	29.66667	65.83333	26
LODHRAN	36.71429	29.85714	73.35714	91	39.28571	31	63.14286	0
SAHIWAL	35.26	26.21	72.64	34	35.99	28	71.71	4
PAKPATTAN	33.4	26.6	60	41	42.8	26.6	51.2	0
OKARA	33.92	29.28	73	60	36.55	27.5	74.94	0
BAHAWALPUR	35.5	26.96	71.4	7	40.3	30.54	56.1	0
BAHAWALNAGAR	37.25	26.33333	71	5.333333	39.91667	28	52.75	0
R.Y.KHAN	38.71429	27.14286	46.17	24.7	42.57143	30.14286	72.29	0
D.G. KHAN	40.57143	31.14286	58.35714	15	42.14286	30.71429	55.71429	5
MUZAFFAR GARH	36.57143	28.14286	53.71429	0	39.83333	29.55	49.64286	0
RAJANPUR	40.4	28.4	65	0	40.2	29.4	63.7	0
LAYYAH	39.14286	28.71429	42	0	38.42857	29.14286	44.14286	15
TOT/AVG	37.04	28.05	60.41	23.40	37.93	28.19	63.01	17.36

Pest Forecast for Next 15 days

Avg. Temperature for next 15 days = **32.25**

Avg. Relative Humidity for next 15 days = **32.8%**

Sr. No.	Pest Name	Opt. Temperature	%Humidity	Pest Prediction
1	RICE BORER	17-30°C	45-80%	May be Stable
2	LEAF FOLDER	25-30°C	45-80%	May be Stable
3	WPBH	25-29°C	80-90%	-
4	BPH	28-30°C	>80-90%	-
5	TOKA	24-40°C	30-80%	May be Stable
6	FOOT ROT	30-35°C	<70%	May be Stable
7	B.L.B	25-34°C	<70%	May Increase
8	B.L.S	16-36°C	86-100%	May be Stable
9	SHEATH BLIGHT	28-32°C	85-100%	May be Stable
10	BLAST	25-30°C	90-95%	May be Stable

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