

Pest Situation of Sugarcane **Crop in Punjab**(15TH - 31ST DECEMBER 2021)

Directorate General
Pest Warning & Quality Control of
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FORTNIGHTLY PEST SCOUTING AND FORECAST REPORT OF SUGARCANE CROP FOR THE 2nd FORTNIGHT OF DECEMBER 2021

Pest Situation of Sugarcane Pests									
%age of spots									
Sr. No.	Pest Name	Current F.Night		Previous F.Night		Corresponding F.Night of Last Year		Remarks	
		AETL	BETL	AETL	BETL	AETL	BETL		
1	BORER	0.00	2.94	0.00	2.94	0.00	1.48	-	
2	PYRILLA	0.00	2.59	0.39	5.68	0.00	0.00	-	
3	WHITEFLY	0.00	0.00	0.00	0.98	0.00	1.48	-	
4	BLACK BUG	0.00	0.69	0.00	0.00	0.00	0.00	-	
-5	MITES	0.00	0.00	0.00	0.00	0.00	0.00	-	
6	TOKA	0.00	0.86	0.00	1.37	0.00	0.00	-	
7	MEALY BUG	0.00	-	0.00	1	0.00	-	-	
8	RED ROT	2.42	-	3.72	ı	0.74	-	Increasing	
9	WHIP SMUT	0.00	-	0.20	1	0.37	-	Decreasing	
10	MOSAIC VIRUS	0.52	-	0.00	1	0.00	-	Increasing	
11	RUST	0.00	-	0.00	-	0.00	-	-	

METEOROLOGICAL DATA OF THE FORTNIGHT

			2021		2020			
Districts	Temperature		R.H%	Rainfall	Temperature		RH%	Rainfall
	Max.	Min.	К.П-70	(mm)	Max.	Min.	KH-70	(mm)
Multan	19.14	5.64	64.50	0.00	21.90	6.10	81.20	0.00
Khanewal	19.87	6.26	65.52	0.00	21.60	6.90	55.40	0.00
Vehari	19.00	6.43	66.57	0.00	21.71	7.14	64.86	0.00
Lodhran	19.10	6.75	67.59	2.00	18.00	6.30	71.00	0.00
Sahiwal	19.00	6.90	92.00	0.00	19.50	6.00	76.00	0.00
Pakpattan	19.40	6.10	88.00	0.00	21.00	7.71	66.00	0.00
Okara	19.20	6.40	90.00	0.00	20.60	9.10	81.80	0.00
Bahawalpur	20.98	5.94	72.61	Т	20.56	5.46	72.18	0.00
Bahawalnagar	20.67	6.75	81.17	0.00	20.97	6.91	70.90	0.00
R.Y. Khan	21.93	6.97	72.53	0.00	21.96	6.88	70.22	0.00
D.G Khan	25.50	7.57	60.57	2.00	24.35	12.10	49.50	0.00
M. Garh	21.67	8.67	64.75	2.00	16.95	8.98	71.38	2.00
Rajanpur	22.18	6.98	35.07	5.00	22.63	7.57	37.53	0.00
Layyah	24.40	11.80	78.00	0.00	28.40	13.60	80.00	2.00
AVERAGE	20.9	7.1	71.3	11.0	21.4	7.9	67.7	4.0

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FORECAST FOR THE NEXT FORTNIGHT

BORERS

This pest flourish best at optimum temperature 35-41°C with relative humidity below 65-70%.

The current weather conditions on overall South Punjab basis is as; maximum temperature 20.9

C°, minimum **7.1** C° with R. humidity **71.3**. It is predicted that the population of this pest will

sustain during the next fortnight.

PYRILLA

This pest flourish best at optimum temperature 29-40C with relative humidity 75-84%. The

current weather conditions on overall South Punjab basis is as; maximum temperature 20.9 C°,

minimum **7.1** C° with R. humidity **71.3**. It is predicted that the population of this pest will sustain

during the next fortnight.

WHITEFLY

This pest flourish best at optimum temperature 29-40C with relative humidity 75-84%. The

current weather conditions on overall South Punjab basis is as; maximum temperature **20.9** C°,

minimum **7.1** C° with R. humidity **71.3**. It is predicted that the population of this pest will sustain

during the next fortnight.

BLACK BUG

This pest flourish best at optimum temperature 22.9-40.9C with relative R. humidity 46%. The

current weather conditions on overall South Punjab basis is as; maximum temperature **20.9** C°,

minimum **7.1** C° with R. humidity **71.3**. It is predicted that the population of this pest will sustain

during the next fortnight.

TOKA

The optimal temperature and RH conditions for the feeding activities are 28.5-33C and 60-70 C°

% respectively. The current weather conditions on overall South Punjab basis is as; maximum

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temperature **20.9** C° , minimum **7.1** C° with R. humidity **71.3**. It is predicted that the population

of this pest will sustain during the next fortnight.

MEALY BUG

This pest flourish best at optimum temperature 29-40C with relative humidity 75-84%. The

current weather conditions on overall South Punjab basis is as; maximum temperature 20.9 C°,

minimum **7.1** C° with R. humidity **71.3**. It is predicted that the population of this pest will sustain

during the next fortnight.

TERMITES

The optimal temperature and RH conditions for the feeding activities are 35°-40C and 70-80%

respectively. current weather conditions on overall South Punjab basis is as; maximum

temperature **39.1** C°, minimum **28.6** C° with R. humidity **56.0**. The current weather conditions

on overall South Punjab basis is as; maximum temperature **20.9** C°, minimum **7.1** C° with R.

humidity **71.3**. It is predicted that the population of this pest will sustain during the next

fortnight.

MITES

The optimal temperature and RH conditions for the feeding activities are 30°-36C and 20-40%

respectively. The current weather conditions on overall South Punjab basis is as; maximum

temperature **20.9** C°, minimum **7.1** C° with R. humidity **71.3**. It is predicted that the population

of this pest will sustain during the next fortnight.

RUST

This disease flourish best at optimum temperature 12-14C with relative humidity below 80-85%.

The current weather conditions on overall South Punjab basis is as; maximum temperature 20.9

C°, minimum **7.1** C° with R. humidity **71.3**. It is predicted that the population of this pest will

sustain during the next fortnight.

RED ROT

This disease flourish best at optimum temperature 25.5-26.5C with relative humidity 60. The

current weather conditions on overall South Punjab basis is as; maximum temperature 20.9 C°,

minimum **7.1** C° with R. humidity **71.3**. It is predicted that the population of this pest will sustain

during the next fortnight.

WHIP SMUT

This disease flourish best at optimum temperature 14-35C with relative humidity 55-80%. The

current weather conditions on overall South Punjab basis is as; maximum temperature 20.9 C°,

minimum **7.1** C° with R. humidity **71.3**. It is predicted that the population of this pest will sustain

during the next fortnight.

MOSAIC VIRUS

The current weather conditions on overall South Punjab basis is as; maximum temperature 20.9

C°, minimum **7.1** C° with R. humidity **71.3**. It is predicted that the population of this pest will

sustain during the next fortnight.

RECOMMENDATIONS

BORERS MANAGEMENT

❖ Install cards of beneficial insects (*Trichograma*) from the start of crop.

❖ Apply granular insecticide carbofuron 3G@ 12-14 kg/acre to the fields where infestation of

sugarcane borers observed above ETL.

PYRILLA MANAGEMENT

Promote parasitic insects (Tetrastichus pyrillae) against eggs of pyrilla and (Epiricania

melanoleuca) against nymphs and adults of pyrilla.

Cut the leaves 6 inch in length from those fields having parasite eggs and pupae in

abundance and shift/hang them in fields where parasites are not found.

❖ Apply Granular insecticide Carbofuron 3G@ 12-14 kg/acre to the fields where infestation of sugarcane Pyrilla reaches ETL and parasites are not found. Application of granules may be done till the 6 feet height of canes.

WHITEFLY MANAGEMENT

- Cut severe infested leaves of whitefly and bury in the soil.
- Install cards of beneficial insects i.e Chrysoperla carnea

BLACK BUG MANAGEMENT

- Avoid the cane fields from water stress.
- ❖ Apply granular insecticide carbofuron 3G@ 12-14 kg/acre

RUST MANAGEMENT

- Cultivate resistant varieties.
- Cut and burn the diseased plants/ Plant pests.

WHIP SMUT MANAGEMENT

Cut and burn the diseased plants / Plant pests

ECONOMIC THRESHOLD LEVELS (ETLs) OF SUGARCANE PESTS

INSECT PESTS	ECONOMIC THRESHOLD LEVEL
Borers	10% infested canes.
Pyrilla	3 per leaf.
Whitefly	10 per Leaf
Black bug	10 per sheath.
Toka	3 per sweep
Mites	10 per Leaf
Mealy bug	Only presence
Termites	10% damage
Rodents	5 live burrows per acre
Diseases	Only presence