

FORTNIGHTLY PEST SCOUTING AND FORECAST REPORT OF SUGARCANE CROP FOR THE 2^{ND} FRTNIGHT OF JANUARY 2021

Pest Situation of Sugarcane Pests									
	%age of spots								
Sr. No.	Pest Name	Current Week		Previous week		Corresponding	Remarks		
		AETL	BETL	AETL	BETL	AETL	BETL		
1	BORER	0.00	0.81	0.00	0.44	0.00	0.99	Low	
2	PYRILLA	0.00	0.00	0.00	0.00	0.00	0.00	-	
3	WHITEFLY	0.00	0.00	0.00	0.00	0.00	0.49	-	
4	BLACK BUG	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	-	
7	MEALY BUG	0.00	-	0.00	-	0.00	-	-	
8	RED ROT	0.41	-	0.88	-	0.49	-	Low	
9	WHIP SMUT	0.41	-	0.44	-	0.49	-	Low	
10	MOSAIC VIRUS	0.00	-	0.00	-	0.00	-	-	
11	RUST	0.00	-	0.00	-	0.00	-	-	

METEOROLOGICAL DATA OF THE FORTNIGHT

			2021		2020			
Districts	Temperature		R.H%	Rainfall	Tempe	erature RH%		Rainfall
	Max.	Min.	K.1170	(mm)	Max.	Min.	КП 70	(mm)
Multan	20.90	5.60	80.40	0.00	16.90	6.60	86.30	0.00
Khanewal	19.90	5.90	79.20	0.00	18.30	6.30	80.90	0.00
Vehari	11.90	5.70	74.10	0.00	15.70	6.50	84.50	9.00
Lodhran	19.00	6.90	69.20	0.00	18.30	6.80	80.40	0.00
Sahiwal	19.00	5.60	69.00	0.00	17.70	6.60	73.34	33.00
Pakpattan	17.00	7.00	61.00	0.00	16.30	7.20	74.00	7.00
Okara	19.00	7.00	62.00	0.00	15.40	7.50	88.00	11.00
Bahawalpur	19.46	5.03	73.00	0.00	18.64	6.30	76.07	0.50
Bahawalnagar	18.90	6.80	72.35	0.00	19.50	7.05	74.60	0.50
R.Y. Khan	21.00	6.63	52.25	0.00	21.85	8.20	80.57	0.00
D.G Khan	20.00	6.71	69.64	0.00	19.78	8.20	73.28	0.00
M. Garh	23.40	4.50	66.85	0.00	15.03	7.32	79.10	0.00
Rajanpur	6.32	21.42	62.40	0.00	8.76	18.94	63.40	0.00
Layyah	21.50	5.71	74.79	0.00	18.28	5.71	54.92	3.00
AVERAGE	18.38	7.18	69.01	0.00	17.17	7.80	76.38	64.00

FORECAST FOR THE NEXT FORTNIGHT

BORERS

This pest flourish best at optimum temperature 35-41C° with relative humidity below 65-70%. The current weather conditions on overall South Punjab basis is as; maximum temperature **18.38** C°, minimum **7.18** C° with R. humidity **69.01**. 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 **18.38** C°, minimum **7.18** C° with R. humidity **69.01**. 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 **18.38** C°, minimum **7.18** C° with R. humidity **69.01**. 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 **18.38** C°, minimum **7.18** C° with R. humidity **69.01**. 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 temperature 18.38 C°, minimum 7.18 C° with R. humidity 69.01. It is predicted that the population of this pest may 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 **18.38** C°, minimum **7.18** C° with R. humidity **69.01**. It is predicted that the population of this pest will sustain as such during the next fortnight.

TERMITES

The optimal temperature and RH conditions for the feeding activities are 35°-40C and 70-80% respectively. The current weather conditions on overall South Punjab basis is as; maximum

temperature **18.38** C°, minimum **7.18** C° with R. humidity **69.015**. It is predicted that the population of this pest will may sustain as such 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 **18.38** C°, minimum **7.18** C° with R. humidity **69.01**. It is predicted that the population of this pest will sustain as such 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 **18.38** C° , minimum **7.18** C° with R. humidity **69.01**. It is predicted that this disease may sustain as such in the coming 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 **18.38** C°, minimum **7.18** C° with R. humidity **69.01**. It is predicted that the incidence of this disease may increase in the coming 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 **18.38** C°, minimum **7.18** C° with R. humidity **69.01**. It is predicted that incidence is expected to sustain as such during the next fortnight.

MOSAIC VIRUS

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 **18.38** C°, minimum **7.18** C° with R. humidity **69.01**. Incidence of this disease is not expected during the coming 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