

SURVEY REPORT OF INSECT-PESTS OF COTTON IN HISAR AND JIND DISTRICTS

Date	Area surveyed
19.07.18	Talvandi Rana, Bado patti, Sarsod, Barwal, Gabipur, Jajanwala, Saitli, Nacharkheda, Uchana Khurd, Banbhori, Dhani Garan, Bhatla

A total of 21 fields of cotton were surveyed for the pest incidence in Hisar and Jind districts and following observations were recorded:

- Population of whitefly was recorded in all the fields observed. Adult whitefly population was below Economic threshold (ET) (6-8 adults/leaf) in all the fields. Mean population of whitefly adults ranged from 0.2 to 3.0 per leaf.
- Leafhopper nymphs and adults were observed in all the fields. Its population was observed above ET (2 nymphs and adults/leaf) in 14.29% fields, in village Sarsod (5.53), Jajanwala ((2.1) and Uchana Khurd (2.26).
- Incidence of thrips was also observed in many fields.
- Solenopsis mealybug (*Phenacoccus solenopsis*) infestation was not observed in any field.

Predictions and suggestions:

- Farmers should be advised to monitor insect-pest populations on weekly basis and to apply control measures only at ET
- Activity of Coccinellids and *Chrysoperla* sp. which feed on sucking pests was observed in most of the fields. Therefore, farmers should refrain from unnecessary insecticide application in order to conserve beneficial insects.
- In the next fortnight, the leafhopper population on the cotton may further increase if rains occur frequently and mean relative humidity remains above 70 per cent. However, the whitefly population is likely to remain below ET. In case of long dry spell of 15 days or more, the population of whitefly on cotton may increase fast.
- In case whitefly population crosses ET on cotton initial spray of nimbecidine 300 ppm @ 1 litre/acre in 200 liters of water may be sprayed twice at weekly interval followed by one spray of 300 ml dimethoate 30 EC in 200 liters of water per acre.
- For the control of leafhopper and thrips in cotton, farmers are advised to apply 40 ml imidacloprid (Confidor) 200 SL or 40g thiamethoxam (Actara) 25 WG in 120-150 litre of water/acre.
- Farmers should be advised not to mix insecticides and spraying of only one recommended insecticides in right dose is suggested.