

**SURVEY REPORT ON INSECT-PESTS OF COTTON IN BHIWANI,
CHARKHI DADRI, MAHENDRAGARH AND REWARI DISTRICTS**

Date	Area surveyed (No. of fields surveyed)
30.08.2018	Bhiwani: Sungarpur (2) and Chandawas (2) Charkhi Dadri: Badhra (2) and Berla (2) Mahendragarh: Satnali (2), Sureti (1), Balana (3), Pali (2), Bassai (2) and Bhagot (2) Rewari: Jholri (2), Kohard (2), Nahar (1) and Khursaid Nagar (3)

A total of 28 fields of cotton were surveyed for pest incidence in Bhiwani, Charkhi Dadri, Mahendragarh and Rewari districts and following observations were recorded:

- Population of whitefly was below Economic Threshold (ET) (6-8 adults/leaf) in all the fields surveyed. The mean population of whitefly adults ranged from 1.50 to 4.89 per leaf.
- Leafhopper nymphs and adults were observed in all the fields. Its population was below ET (2 nymphs and adults/leaf) in most of the fields except one each field of Sungarpur, Chandawas, Bassai, Bhagot, Jholri and Nahar. The mean population of leafhopper nymphs and adults ranged from 0.83 to 4.00 per leaf.
- The population of thrips was below ET in all the surveyed fields and ranged from 0.00 to 2.61 per leaf.
- Solenopsis mealybug (*Phenacoccus solenopsis*) infestation was observed on few plants in one each field of Chandawas, Pali, Basai and Nahar.

Predictions and suggestions:

- Farmers should be advised to monitor insect-pest populations on weekly basis and to apply control measures only at ET.
- The population of spiders and *Chrysoperla* sp. was observed in most of the fields. Therefore, farmers should refrain from unnecessary insecticide application in order to conserve beneficial insects.
- In case of long dry spell of 15 days or more, the population of whitefly on cotton may increase. However, the leafhopper population is likely to remain below ET. The leafhopper population on the cotton may further increase if rains occur frequently and mean relative humidity remains above 70 per cent.
- In case of whitefly population crosses ET on cotton, an initial spray of Nimbecidine @ 1.0 litre/acre in 200 litres of water may be done followed by need based one spray of 350-400 ml dimethoate 30 EC in 200 litres of water per acre.
- For the control of leafhopper in cotton, farmers are advised to apply 40 ml imidacloprid 200 SL or 40 g thiamethoxam 25 WG in 120-150 litre of water/acre. Accordingly, the spray solution may be increased as per the requirement of crop.
- Farmers should be advised not to mix insecticides and spraying of only one recommended insecticides in right dose is suggested.