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**Subject: Survey report of cotton crop.**

Survey of insect-pests of cotton crop in Hisar, Fatehabad and Sirsa districts was conducted by Dr. Anil (Assistant Entomologist) and Dr Man Mohan (Assistant Pathologist) on 10.09.2018. The brief report for information and further necessary action is enclosed herewith, please.

  
13/9/18  
Prof. & Head

## SURVEY REPORT ON INSECT-PESTS OF COTTON IN HISAR, FATEHABAD AND SIRSA DISTRICTS

Date	Area surveyed (No. of fields surveyed)
10.09.2018	<b>Hisar:</b> Fransi (2), Kalirawan (3), Khairampur (4) and Bhodia Khera (2) <b>Fatehabad:</b> Dhand (1), Kirdhan (1), Bhattu Kalan (2) and Pili Mandori (3) <b>Sirsa:</b> Makhosrani (1), Nehrana (2), Nejia Khera (2) and Phoolkan (2)

A total of 25 fields of cotton were surveyed for pest incidence in Hisar, Fatehabad and Sirsa districts and following observations were recorded:

- Population of whitefly was below Economic Threshold (ET) (6-8 adults/leaf) in most of the fields surveyed except one each field of Kalirawan (10.11 adults/leaf), Khairampur (9.06 adults/leaf) and Bhattu Kalan (6.33 adults/leaf). The mean population of whitefly adults ranged from 1.39 to 10.11 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 field of Nehrana. The mean population of leafhopper nymphs and adults ranged from 0.06 to 3.89 per leaf.
- The population of thrips was not observed in surveyed fields except one field of Khairampur (3.28 nymphs and adults/leaf).
- Solenopsis mealybug (*Phenacoccus solenopsis*) infestation was observed on few plants in one each field of Fransi, Bhodia and Pili Mandori. Termite infestation was noticed in one field of Khairampur.

### 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/Achook @ 1 litre/acre in 200 litres of water may be done followed by need based one spray of 350-400 ml dimethoate (Rogor) 30 EC in 200 litres of water per acre.
- For the control of leafhopper in cotton, farmers are advised to apply 40 ml imidacloprid (Confidor) 200 SL or 40 g thiamethoxam (Actara) 25 WG in 200 litre of water/acre..
- Farmers should be advised not to mix insecticides and spraying of only one recommended insecticides in right dose is suggested.