

ICAR-CICR Weekly Status Report of WHITEFLY on Cotton in NORTH ZONE

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Dr D. Monga, (PI, Pathology, AICCIP) & Dr Dharajothi, (PI, Entomology, AICCIP)

HARYANA:

26 villages were surveyed. Whitefly was in the range of 0.3 to 1.7 per leaf. The population was higher in cucurbits sown along cotton at Kulana but due to showers their was significant decline and it became less than threshold. The population on cotton crossed ETL at sadal pur earlier but came down after spray of neem based insecticides.

RAJASTHAN:

20 villages were surveyed. The incidence of whitefly not present on cotton and other alternate host remained very low at different locations during the period under report.

PUNJAB:

MUKTSAR:

very low whitefly infestation was recorded on cotton which was ranging from 0.00 to 1.47(whitefly adults/leaf).

- Mean whitefly infestation (whitefly adults/leaf) on cotton was 0.66, 0.43, 0.070, 0.05 and 0.03 in Goniana, 0.39, 0.15 in Chatiana, 0.4, 0.5 and 0.6 in Mhabadar, 0.43 in Khunana Kalan, 0.9 in Bodiwala, 0.73, 1.47, 0.17 in Dabwali Malko, 0.23 in Rahurian Wali, 1.27, 0.07 and 1.6 in Malaut Pind, 0.2, 0.3, 0.40 and 0.83 in Aulakh, 0.37 and 0.30 in Madhir, 0.90 and 0.17 in Lundewala, 0.15 in Seerwali, 0.00 and 0.05 in Bura Gujjar, 0.25 in Molahan, 0.01 in Kundal, Railway Line, 0.25 in Kundal, 0.40 in Malout, 0.15 in Enakhera, 0.15 in Malout Main Road, 0.05 in Jandwala, 0.05 in Kothe Himmat Pura, 0.40 in Gidderbaha, 0.05 in Srainaga.

Infestation on other hosts

- Very low infestation of whitefly was recorded on tomato, chilli, okra and mung.
- Low infestation of whitefly was recorded on brinjal and cucumber.

MANSA:

Whitefly infestation (whitefly adults/leaf) on cotton ranged from 0.33 to 3.33.

- Very low whitefly infestation was recorded in Jawaharke, Barnal and Narinderpura -0.33/leaf which below the ETL (6 whitefly adults/leaf)
- Low whitefly infestation (whitefly adults/leaf) was recorded in Gharagna village (3.33 and 2.33), Dhullowal (2.67), Udata Bhagat Ram (2.33), and Ramanandi, Shapewali and Raipur (2.00).

FAZILKA:

Whitefly infestation in Fazilka district was comparatively high on cotton as compared to Faridkot, Bathinda, Muktsar and Mansa districts with a range from 0.50 to 13.00.

- Mean whitefly infestation (whitefly adults/leaf) on cotton was **4.5, 3.5 and 5.0 in Ramsara, 4.0 in Jhoradkhera**, 0.90, 1.00, 1.50 and 3.00 in Dotarawali, **1.30, 5.33, 5.00 and 6.0 in Bakenwali**, 2.0 in Punjawa, 1.00 in Dhinganwali, 1.50 and 1.00 in Bhagu, 1.50 and 2.00 in Khatwan, 2.00 in Kikarkhera, **8.00 and 13.00 in Kiliyanwali, 4.50, 5.00, 2.40 and 3.50 in Panchkosi, 5.00 and 8.50 in Danewala**, 2.2 in Khipanawali, 2.5 and 1.5 Gobindgarh, 3.0 in Taza Patti, 2.75 in Bajeetpur Katianwali, 3.60 in Rudiyanwali, 1.5 in Jandwala, 1.0 and 2.5 in Punjawa, 1.00 in Dewankhera, **2.60 and 4.35 in Usmankhera**, 2.00 in Bhagsar, 0.50 in Balluawana, and 1.0 in Kalarkhera.

Infestation on other hosts

- At few locations, the infestation near citrus orchards is high.
- The crop is under water stress because the available irrigation water is prioritized for citrus orchards.

FARIDKOT:

Very low whitefly infestation was recorded on cotton with a range from 0.10 to 1.70.

- The mean whitefly infestation (whitefly adults/leaf) on cotton was 0.14 in Behlewala, 0.10 in Dhaab Sher Singh, 0.20 in Sukhwala, 1.70 in Faridkot Local, 0.64 in Ajit Gill, 0.20 in Kothe Chand Singh, 0.20 in Ukandwala and 0.15 and 0.63 in Khara.

On other hosts

- Very low infestation of whitefly was recorded on brinjal, capsicum and *Ipomoea* sp.

BATHINDA:

Whitefly infestation was recorded as very low and below ETL on cotton (6 whitefly adults/leaf) and the level of infestation was ranging from 0.00 to 1.00.

- The mean whitefly infestation (whitefly adults/plant) on cotton was 0.33 in Naruana, 0.15 (Narma and 0.17 (kapah) in Miyan, 1.0 in Bajak, 0.33 in Tungwali, 0.00 in Talwandi Saboo, 1.0 in Kot Sameer, 0.02 in Chuge Kalan, 0.00 in Chuge Khurd, 0.06 in Balluana, 0.02 in Burj Mehna, 0.09 in Bulada, 0.07 in Bhai Bakhtaur and Maur Khurd.

On other hosts

- The pest was also recorded on *Cannabis sativa*, guara, cucurbits, brinjal, peeli booti and sunflower at low level.

(The ground data is collected by the following entomologists: Dr Vijay Kumar, Dr J S Kolar, Dr H S Bhullar & Dr R S Chandi from PAU, Ludhiana, Dr Satnam & Ms Suneet Pandher from Faridkot; Dr Sanjeev Kumar & Dr Prabhjot Kaur from Bhatinda, Dr P K Arora & Mandeep Pathania from Abohar and Dr Jagdeesh Arora(plant pathologist) from Fazilka-PAU Surveillance team; Dr Roop singh from Sri ganganagar; Dr K K Dahiya & Dr Pala Ram from Hisar & Dr Rishi Kumar from Sirsa)