



## Whitefly and CLCuD in North India - Survey and surveillance report

*S.P. Gawande and T Prabhulinga, CICR, Nagpur*

Timely sowing of tolerant cotton genotypes coupled with reduction in insecticide use helped to check whitefly and CLCuD in North India during current season 2016-17. This was observed in survey and surveillance on severity of the CLCuD and Whitefly infected fields conducted in different districts of Haryana, Punjab and Rajasthan by Dr. S.P. Gawande and Mr. T Prabhulinga, scientists of CICR, Nagpur, in association with scientists from CICR regional station, Sirsa Haryana during 18th to 21st July and 24th and 26th August, 2016. Survey was conducted in 8 districts viz., Sirsa, Fatehabad, Hisar, Hanumangarh, Sriganaganagar, Mansa, Bhathinda and Fazilka of Haryana, Rajasthan and Punjab. During July month, in most of the surveyed districts whitefly was below ETL level except in Fazilka, Bhathinda and Mansa where the average number of whitefly per leaf was 24.6, 12.6 and 10.3 respectively. Interestingly many farmers had not taken even a single insecticide spray till then, while last year farmers had resorted to 7-8 sprays by August for whitefly management. Whiteflies infestation was less in August as compared to infestation during July. The probable reason for low whitefly infestation was timely sowing of tolerant Bt hybrids with concomitant reduction in indiscriminate insecticide use. In Haryana the average number of whitefly infestation was 3.86 whiteflies per leaf which is below ETL. Similarly, in Rajasthan infestation was 3.59 per leaf, whereas in Punjab state which was the hotspot for whitefly in last year infestation was low i. e, 3.99 per leaf.

CLCuD was severe in Hindu Malkot of Sriganaganagar district of Rajasthan with Grade 4. In rest of the districts CLCuD incidence was in the range of 0 to 2 grades. Survey in August in Haryana recorded disease grade in the range of 0.2 to 1.6 (20 to 100% incidence) whereas in Punjab it was in the range of 0.2 to 2.3 (10 to 90 % incidence). The highest grade was recorded from Rajasthan i.e. Grade 0.4 to 4.7 (40 to 100%incidence). During this survey they have critically noted the symptoms produced by the CLCuV infected plant in each field.



Fig: A) and B) Collection of whiteflies from the farmers field C) Scientist-Farmers interaction  
D) Leaf enation symptom of CLCuD E) down ward leaf curling due to CLCuV infection. F) Disease and pest free desi cotton.

## Training Program organized under cotton FLDs at Sirsa

One - day training program was organized on 26-08-2016 for the farmers at CICR, RS, Sirsa under cotton Frontline Demonstrations program. Around 136 farmers covered under cotton FLDs along with the other farmers participated in the day long training program.

Dr D. Monga ,Head, CICR, Regional Station, Sirsa in his opening remarks apprised the farmers about the cotton scenario, ongoing program at station and the important points for cotton cultivation. A detail discussion about the cotton production and protection technology was held during the training.

Dr R. A. Meena , Principal Scientist (Seed technology) discussed in detail about the seed production technology . Dr Rishi Kumar and Dr Satish K Sain delivered lecture on insects –pests and diseases. At the end an interactive session among Scientist and the farmers was also held.



## Trainee Scientists visited CICR, RS, Coimbatore

ICAR Trainee Scientists from NAARM, Hyderabad undergoing Field Experience Training (FET) at KVK, Karamadai, Coimbatore visited CICR Regional Station on August 17, 2016. Dr. (Mrs.) Usha Rani, Principal Scientist explained the research activities being carried out at CICR. Dr. N. Gopalakrishnan, former ADG (CC) explained the activities being carried out in AICRP on Cotton and also the Cotton Scenario.



## Meeting attended

- Dr. D. Monga and Dr. Rishi Kumar attended a meeting of Interstate Whitefly Consultative Committee to discuss the incidence of whitefly on 27.08.2016 at Abohar (Punjab). The meeting was chaired by V.C. PAU, Ludhiana and addressed by Director Agriculture, Punjab and JDA Cotton Punjab. In the meeting Dr Rishi presented the survey and incidence report of whitefly in the north zone and population dynamics of whitefly. The overall situation of whitefly incidence is below ETL at almost all the locations except few locations in Mansa Distt of Punjab. Spotted bollworm incidence in arboreum cotton was reported through the surveys conducted for whitefly.
- Dr S. M. Wasnik, Principal Scientist Extension attended partners meet organised by Reliance Foundation, Nagpur at Hotel Hardeo, Nagpur on 26 August 2016. The meeting was attended by State Agril Depts., KVKs, MAFSU, Dept of Fisheries, Dept of Forestry and various NGOs. In the meeting Dr S. M. Wasnik apprised the participants about delivery of the voice messages from CICR under e-Kapas. Discussion was also held for possibility of any collaborative programmes with Reliance Foundation.

## Other Activities

Dr. Sandhya Kranthi has been nominated as the IMC member of CIRCOT, Mumbai for the period of 3 years. She is already acting as IMC member of NRCC, Nagpur and NCIPM, New Delhi.

Development of IPM Strategies to Combat Whitefly and Other Emerging Pests on Cotton: A New Network Project in the Competitive Grant Mode was sanctioned by NICRA. The PI of the project is Dr. S. Kranthi while Dr. Prabhu Linga and Dr. Nagrare are the Co PIs. The project partners are Drs. Sunit Pandher and Satnam Singh (PAU, Faridkot) and Drs. Chandish Ballal, S. Venkatesan and S. K. Jalali (NBAIR, Bengaluru), apart from Dr. Rishi and Dr. Monga ( RS Sirsa) and Dr. Sabesh (RS Coimbatore). The duration of the project is 3 years and the budget is 40.45 lakhs.



Produced and Published by:

Chief Editor :

Editors :

Digital Editor, design & Media Support :

Citation : Cotton Innovate, Issue-4, Volume-8, 2016,  
ICAR-Central Institute for Cotton Research, Nagpur.

Dr. K. R. Kranthi, Director, CICR, Nagpur

Dr. S. M. Wasnik

Dr. J. Annie Sheeba, Dr. Vishlesh Nagrare,

Dr. J. Amutha, Dr. M. Saravanan

Mr. M. Sabesh

Publication Note: This Newsletter presented online at  
[http://www.cicr.org.in/cotton\\_innovate.html](http://www.cicr.org.in/cotton_innovate.html)

Cotton Innovate is the Open Access CICR Newsletter

The Cotton Innovate – is published weekly by  
ICAR-Central Institute for Cotton Research

Post Bag No. 2, Shankar Nagar PO, Nagpur 440010

Phone : 07103-275536; Fax : 07103-275529;

email: [cicrnagpur@gmail.com](mailto:cicrnagpur@gmail.com), [director.cicr@icar.gov.in](mailto:director.cicr@icar.gov.in)