



Incidence of Pink Bollworm noticed at farmer's field location in BG II cotton at village Palwan (Uchana: Jind), Haryana

As per the information received regarding incidence of Pinkbollworm at farmers field location from Dr Anil Jakhar (Asth. Entomologist) and Dr R.S. Sangwan (Head, Cotton Section), CCS HAU Hisar, a team of YP-II, ICAR-CICR RS Sirsa and technical from the ICAR-CICR Nagpur resistance monitoring laboratory on Pink Bollworm of Dr.ChinababuNaik visited the farmers field location (24 October,2018). The cotton crop at this location was sown in 10 acres with RCH 773BG-II, RCH 776 BGII, US 51, Haryali Gold and Money Maker hybrid between 10-15th May, 2018. To confirm the incidence and to collect the detail information Dr Rishi Kumar and Dr. D. Monga Head CICR RS Station visited the location on 27.10.2018.

The bolls collected from the infested field during both the visits were dissected at ICAR-CICR Regional Station, Sirsa and 100% incidence was recorded with 1-2 larvae per boll. Each and every field adjoining to the ginnery and random surveying away from the ginnery within a radius of around 2-3 kilometers was done. There was severe infestation close to the ginnery but as we moved away, no infestation was observed in the green bolls collected and dissected from these locations.



Dr .D. Monga and Dr Rishi Kumar in Vardhman Cotton Factory, Village: Palwan (Uchana) Jind, Haryana adjoining to the farmer field location heavily infested by Pink Bollworm

Dr. Monga and Dr. Rishi also visited the ginnery located in front of the infested field. On discussion regarding cotton trading with the manager of Vardhman Cotton ginning factory ShriGopal Sharma informed that they do not purchase seed cotton from outside the state for ginning purpose, however the seed of cotton is traded in many factories depending on economics from Telengana state and they also purchased cotton seed from Telengana for the purpose of oil extraction during June-August. As Pink bollworm larvae can survive through doubleseed formation and there is a possibility of presence of PBW resistant larvae in theseed from these states, the moths emerging from these larvae after pupation might have escaped and laid eggs on the cotton crop surrounding the ginning mill and that might be responsible for the damage to crop. The recovered larvae were handed over to the technical's team for carrying them to ICAR-CICR Nagpur for further bioassay to know the susceptibility status of these larvae. This hypothesis can be verified when we have the information on the

susceptibility of these larvae against BG II toxins under laboratory conditions. As informed the seed was purchased by the farmer from the authorized source.

Dr Rishi Kumar, Principal Scientist from ICAR-CICR Regional station Sirsa along with the Rasi seeds has planned a survey of cotton fields adjoining to the ginneries to assess the situation in the zone. However it is also pertinent to add that at ICAR-CICR Sirsa, we are doing destructive green boll sampling since last five years and at none of the location the surviving larvae were recorded from BG-II till date, whereas incidence of PBW has been observed in Non-Bt cotton. If the hypothesis is confirmed then a detailed plan to manage the situation like seed trade quarantine, pink boll worm monitoring by installing pheromone traps around ginneries, awareness creation and management shall have to be drawn under the ongoing IRM project on pink bollworm.



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