

Influence of Weather Parameters on Pheromone Trap Catch of Pink Bollworm, *Pectiniophora gossypiella* on Bt Cotton under Field Condition

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ABSTRACT

Field investigations on seasonal occurrence, pheromone monitoring, influence of abiotic factors on incidence of pink bollworm in cotton were conducted during *kharif*, 2018-19 crop season at Regional Agricultural Research Station, Lam, Guntur, Andhra Pradesh. Monitoring of male adult moths of pink bollworm through pheromone trap catches of pink bollworm revealed that the catches of male moths started from the month of August and the highest trap catch was observed during 4th std. week (1756.13 moths/trap). The correlation studies revealed that pheromone trap catch exhibited significant positive correlation and significant negative correlation with morning relative humidity and minimum temperature respectively. Weather parameters have influenced the pheromone trap catch to the extent of 44.95 per cent. The knowledge may be utilized to adjust sowing date or to make acceptable modifications in the cropping system and also to time the various approaches for the control in an ecologically sound manner against PBW on Bt cotton.

keywords: *Pheromone trap, pink bollworm, weather parameters.*