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Evaluation of newer insecticides against leaf hopper on Bt cotton

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ABSTRACT

Evaluation studies were carried out for management of leaf hoppers on Bt cotton during 2012-13 at three different locations. The pooled results revealed that minimum population of leaf hoppers was recorded in the treatment fipronil 5 SC (0.075%) and it was at par with treatment diafenthiuron 50 WP (0.08%) and imidacloprid 30.5 SL (0.005%). Next best treatment was buprofezin 25 SC (0.05%). Significantly highest seed cotton yield of 19.43 q/ha was harvested in application of treatment fipronil 5 SC (0.075%) followed by diafenthiuron 50 WP (0.08%) and imidacloprid 30.5 SL (0.005%) with 18.66 and 18.19 quintal per hectar, respectively. Highest monetary return Rs. 33,409 per ha was also observed in the treatment fipronil 5 SC (0.075%) followed by imidacloprid 30.5 SL (0.005%) (Rs. 30113 per ha) and diafenthiuron 50 WP (0.08%) (Rs. 28340 per ha) whereas in terms of higher incremental cost benefit ratio, imidacloprid 30.5 SL (0.005%) was found superior which recorded 1: 13.3 followed by fipronil 5 SC (0.075%) (1: 8.9).

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