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RESEARCH ARTICLE :

Resistance to borer complex infestation in sugarcane clones

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SUMMARY : Field trials were conducted in Randomized Block Design with three replications at Sugarcane Research Station, Tamil Nadu Agricultural University, Sirugamani Tiruchirappalli, Tamil Nadu, India. The infestation levels in clones of sugarcane were assessed and graded. Sugarcane clones were categorized based on the degree of resistance/susceptibility according to resistance scale. The first set of field experiments revealed that early shoot borer infestation and per cent of dead heart was minimum in Si 2011-355 (4.17 %) and maximum in Si 2011-349, Si 2011-415, Si 2011-598 and Si 2011-631 (8.70 %). The internode borer damage was recorded minimum in Si 2011-359 (8.0 %) and maximum (37.5%) in Si 2011-371. The clone Si 2011-359 recorded higher cane yield of 131.40 t/ha and minimum 93.67 t/ha in Si 2011-631 In the second set of experiment among the twenty six clones, Si 2012-329 (6.00 %) and Si 2012-38 (39.40 %) recorded the minimum and maximum dead heart damage due to early shoot borer, respectively. The internode borer damage was 3.80 per cent in Si 2012-329 which was the minimum among the clones of sugarcane.

KEY WORDS :
Sugarcane, Early shoot borer, *Chilo infuscatellus*, Internode borer, *Chilo sacchariphagus indicus*

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