

Soil Technologies Corp.
Research and Development Department



Research Report

Title: Rice Stem Borer Control with Armorex

Location: India

Principal Investigators: U. Obul Reddy, Commercial Business Head at Apis Crop Solutions Private Ltd

Crop: Rice

Date: April 2020

Abstract:

The purpose of this trial was to evaluate the efficacy of Armorex in controlling *Scirpophaga incertulas* (rice stem borer) in rice fields. Two tests were conducted for *S. incertulas*; one test applied Armorex to a field of rice with no infestation as a preventative measure and another test applied Armorex to a field of rice with a moderate infestation. When applied to the field not yet infested by *S. incertulas*, there was an infestation of less than 20% infestation at 15 days following the application. Rice fields with a moderate infestation of *S. incertulas* that received a curative treatment of Armorex at 200ml/acre showed a 60% reduction of the infestation at 15 days following the application. Results from these tests indicate that Armorex reduced the severity of infestation of *S. incertulas* in rice.

Methods:

Armorex was applied at 200 ml/ac to a field of rice without a *S. incertulas* infestation and was observed after 15 days. Armorex was applied at 200 ml/ac to a field of rice with a moderate infestation of *S. incertulas*. The field was observed 5 and 12 days after the application.

Results:

1. Rice fields that were not yet infested with *S. incertulas* (stem borer) and received a preventative treatment with Armorex showed less than 20% infestation at 15 days following the application.

2. Rice fields with a moderate infestation of *S. incertulas* (stem borer) that received a curative treatment of Armorex at 200ml/acre showed a 60% reduction of the infestation at 15 days following the application.

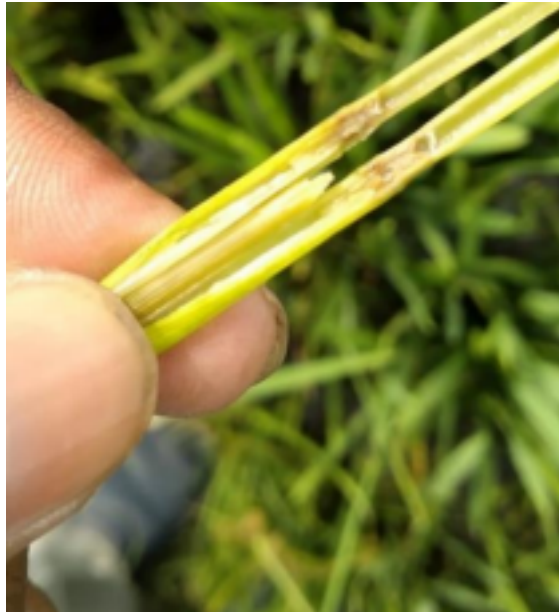


Figure 1: *S. incertulas* Dead Larvae

Conclusions:

These results indicate that Armorex has an ability to control *S. incertulas* in rice fields. Rice fields with a moderate infestation of *S. incertulas* were able to obtain a 60% control of the pest 15 days following the application of treatment. In fields with no apparent infestation before the application of treatment saw a less than 20% infestation of *S. incertulas* 15 days after Armorex was applied.