

Rice Stink Bug Resistance to Pyrethroids 2011

In cooperation with Dr. Kelly Tindall at the University of Missouri, pyrethroid resistance in the rice stink bug (RSB)---*Oebalus pugnax*---was documented in Texas in 2011. RSB adults were collected by sweep net in the summer of 2011 from rice fields and surrounding field margins in Beaumont (Jefferson County: N 30 degrees 3.944 minutes; W 94 degrees 17.687 minutes), East Bernard (Fort Bend County: N 29 degrees 30.583 minutes; W 95 degrees 9.617 minutes), Round Mott (Wharton County: N 29 degrees 12.870 minutes; W 96 degrees 26.727 minutes), Matagorda (N 28 degrees 42.847 minutes; W 96 degrees 5.872 minutes) and Ganado (Jackson County: N 29 degrees 1.597 minutes; W 96 degrees 26.406 minutes). Adult RSBs were placed in glass scintillation vials (1 adult per vial) coated on the inside with various concentrations of lambda-cyhalothrin (the active ingredient in Karate Z). The active ingredient was dissolved in acetone before treatment of the inside of the vials. For the Ganado and Matagorda locations, 25 adult RSBs per concentration were collected; for all other Texas locations, 50 adult RSBs were collected per concentration. Mortality was recorded after 4 hours exposure.

