

ALABAMA WHEAT AND FEED GRAINS PRODUCERS
PROJECT SUMMARY
YEAR 2007

TITLE: Control and Detection of BYD in Wheat

INVESTIGATORS:

Dr. Kira L. Bowen and Katherine B. Burch
Department of Entomology and Plant Pathology
209 Life Sciences Bldg
Auburn University, AL 36849-5409

FUNDS RECEIVED: \$1,000

SUMMARY:

Plots of 'Pioneer 26R61' were planted at Sand Mountain Research and Extension Center at Crossville on November 11, 2006. Plots were sprayed with one of seven insecticidal treatments including Baythroid 2, Mustang Max, Warrior, or water at Feekes' stage (FS) 1.3 or 3, or left untreated. Symptomatic plants per row were counted prior to the soft dough stage (~FS 11). Plots were harvested on June 14, 2007 and yield and 1000 kernel weights were measured. Compared to 2006, disease onset was earlier with higher incidence and severity. While symptoms tended to be reduced by most foliar applications, treatments of Warrior (3.2 fl oz/a formulation) applied at either FS 1.3 or 3 and Mustang Max (3.5 fl oz/a formulation) applied at FS 3 showed significant reductions of BYD at the first rating. By the second rating, in addition to the previous treatments, Baythroid 2 also showed significant reduction in symptoms. Neither yield nor quality of seed were significantly improved, however, yield tended to be highest in plots sprayed with Warrior (3.5) applied at FS 1.3. A summary of the results has been submitted for publication in 2008 in Volume 2 in Plant Disease Management Reports which is published by the American Phytopathological Society.