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Project ID: FY09-FB-042

FY09 ARS Agreement #: 59-0206-9-050

Research Category: MGMT

Duration of Award: 1 Year

Project Title: Uniform Fungicide and Biocontrol Agent Test for Control of FHB and DON on winter wheat in South Dakota.

PROJECT 1 ABSTRACT

(1 Page Limit)

This project will conduct a trial of fungicide products and application protocols to determine their efficacy in managing Fusarium head blight (FHB). The trials will be conducted at numerous locations and across several grain classes throughout the U.S. however we will be conducting trials only in South Dakota on wheat and contributing the data to the coordinated project for analysis. Though scab is a significant production problem for spring wheat and barley each year in South Dakota, we have been asked to limit our FY09 research to winter wheat only at one location in South Dakota. We will conduct our evaluation of fungicides in an irrigated, inoculated nursery at Brookings, SD. Fungicide treatments will be applied at flowering on a susceptible variety of hard red winter wheat ('Wesley'). Data collected will include FHB incidence and severity within each plot, as well as *Fusarium*-damaged kernels, deoxynivalenol concentration in grain, and common agronomic parameters (yield, test weight, etc.). Additional information collected may include foliar disease ratings for common diseases such as tan spot and leaf rust.