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Project ID: FY09-FB-042

FY08 ARS Agreement #: 59-0790-4-097

Research Category: MGMT/FB-CP

Duration of Award: 1 Year

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

PROJECT 1 ABSTRACT

(1 Page Limit)

This is a standard uniform efficacy trial of several fungicide products and protocols, which will be evaluated at numerous locations and across several grain classes throughout the U.S. 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 several recommended fungicides in an irrigated, inoculated nursery at Brookings, SD and contribute the results to the coordinated project. 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.