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.