

PI: Madeleine Smith

PI's E-mail: smit7273@crk.umn.edu

Project ID: FY14-UT-006

ARS Agreement #: New

Research Category: MGMT

Duration of Award: 1 Year

Project Title: Uniform Evaluation of Fungicides for FHB and DON Management in Minnesota.

PROJECT 1 ABSTRACT

(1 Page Limit)

Fusarium head blight (FHB), caused predominantly by *Fusarium graminearum*, remains a disease of significance, limiting the production capacity of wheat in Minnesota in years when environmental conditions favor initial infection and disease development. Since the resurgence of FHB in the Upper Midwest in the early 1990's, fungicides have proven to be effective and have subsequently been widely adopted as a tool for the management of both FHB and the foliar diseases of wheat.

This project contributes to the multi-state cooperative uniform fungicide trial. This cooperative effort will help determine the efficacy of registered, unregistered and experimental fungicides on multiple classes of wheat and in barley across diverse environments. The data will be used to test the efficacy of generic compounds versus the industry standards, and to determine the most appropriate rates and timing of application of these fungicides to best manage FHB development and reduce mycotoxin accumulation in grain. The data generated by this project may be used to support the registration of new chemistries and to provide recommendations at the state, regional and national levels for best management practices.