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Project ID: 0304-HO-004

Research Area: CBC

Project Title: Uniform fungicide trials on Fusarium head blight of wheat and barley in Minnesota.

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ARS Agreement #: NEW

Duration of Award: 1 Year

PROJECT 1 ABSTRACT

(1 Page Limit)

Uniform Fungicide Trials will be conducted at the Northwest Research and Outreach Center in Crookston, Minnesota on spring barley and hard red spring wheat. This research is part of an organized, multi-state cooperative effort to determine the Fusarium head blight (FHB) control efficacy of select products while exposed to a range of diverse field conditions. Each trial location represents a unique environment, thereby exposing chemical and biological control agents to a variety of disease control challenges. Performance parameters of experimental products must be well documented prior to public release. These trials provide timely, non-biased evaluations of proposed FHB control products.

Effective chemical and biologically-based FHB control strategies will minimize disease-related losses for growers, bolster economies of agriculturally-dependent communities, and provide a dependable source of small grains for consumers in the State of Minnesota, the United States and beyond.

The Minnesota Uniform Fungicide Trials will include a moderately susceptible wheat cultivar and a six row malting barley. While additional FHB inocula will be used in the trial, supplemental misting and irrigation will not be. Fusarium head blight inoculated corn grain spawn will provide uniform disease pressure. The trial will consist of a nontreated control and seven fungicide treatments. Crop disease responses to FHB, as well as yield and quality data, will be recorded when appropriate.