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Project Title: Uniform Fungicide Trials on Wheats and Barley for the Control of FHB in Minnesota, 2006.

PROJECT 1 ABSTRACT

(1 Page Limit)

This research project is part of an organized, multi-state cooperative effort designed to determine the potential for Fusarium head blight (FHB) control efficacies of experimental and unregistered fungicide products on multiple wheat classes and barley across diverse environments. Uniform fungicide trials are needed to identify those compounds that can manage disease development and preserve crop yield and quality potentials. Additionally, results from this research will provide plant pathologists with data that are useful in supporting emergency exemption (Section 18) requests for fungicides that have better FHB control efficacies than currently labeled products.

Uniform fungicide trials will be conducted on hard red winter wheat, spring barley, and hard red spring wheat near Crookston, located in northwest Minnesota; as well as hard red spring wheat near Lamberton, located in southwest MN. The growing environments at each of the two locations are quite different. Conducting the uniform fungicide trials at each location will increase the likelihood of having disease occur in at least one site. Environmental conditions at both test sites will be modified to increase FHB disease pressure prior to the plant heading growth stage. Leaf and FHB disease incidences, severities, and FHB field index will be recorded, as well as grain yield and quality data collected.