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Project Title: Coordination of the Uniform Regional Scab Nursery for Spring Wheat Parents.

PROJECT 1 ABSTRACT

(1 Page Limit)

Extensive efforts have been directed at identifying wheat germplasm with resistance to scab that can be used as parents for the development of new commercially acceptable cultivars with enhanced scab resistance. For over a decade, a Uniform Regional Nursery to screen spring wheat parents for scab resistance has sought to address this issue by evaluating scab resistance in advanced spring wheat germplasm at several locations throughout the midwestern United States and Southern Canada. The goal of this project will be to coordinate a multisite evaluation of wheat germplasm for the spring wheat region in 2011. This will be the sixteenth year that this nursery has been grown. Project objectives of the coordinator of this nursery are to oversee the logistics of organizing the nursery, in the early spring; to obtain, collate and analyze data associated with scab resistance that is gathered at each nursery location; and to produce an annual nursery report that is freely distributed to participants and other interested parties. By providing scientists an opportunity to evaluate the nursery entries at their own locations and to compare these results to those obtained at other locations, this nursery has proven to be valuable for identifying new scab resistant germplasm and its subsequent exchange among participants for use in breeding programs.