

PI: Richard Horsley

PI's E-mail: Richard.Horsley@ndsu.edu

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FY09 ARS Agreement #: 59-0206-9-062

Research Category: BAR-CP

Duration of Award: 1 Year

Project Title: Testing of Barley for FHB Resistance in China.

PROJECT 2 ABSTRACT

(1 Page Limit)

In FY10, the objectives of this project will be to phenotype for FHB resistance and DON accumulation: 1) breeding lines from five upper Midwest barley research programs and the ICARDA barley breeding program, 2) accessions from various barley collections from around the world (e.g., Syria and Canada,), and 3) lines being evaluated in mapping studies or studies to validate FHB resistance QTL/markers. The nursery is located at Zhejiang University – Hangzhou, China, and it has been used for screening upper Midwest barley germplasm since 1995. Use of this nursery allows for an additional field screen for FHB resistance each year and screening of materials from all Midwest barley improvement programs at a common location where FHB is the only head blighting disease. Institution submitting lines to the nursery in 2010 and 2010 will be North Dakota State University, University of Minnesota, USDA-ARS, Washington State University, ICARDA, Busch Agricultural Resources LLC (Busch Ag) , and **Virginia** Polytechnic Institute and State University (Virginia Tech).