FY11 USWBSI Project Abstract

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Project ID: FY10-SW-003 FY10 ARS Agreement #: 59-0206-0-059

Research Category: VDHR-SWW Duration of Award: 1 Year

Project Title: Development of Wheat with Resistance to Scab Adapted to the Mid-Atlantic.

PROJECT 1 ABSTRACT

(1 Page Limit)	
The overall goal is to develop scab resistant varieties with competitive grain yield an be part of an integrated program for the control of scab mostly focusing on the use of using traditional breeding and molecular markers. This project will include the follow objectives: 1) Breeding soft red winter wheat adapted to the Mid-Atlantic with resista traditional and molecular assisted breeding methods; 2) Evaluate wheat advanced line nurseries, Maryland State Test and Regional Nurseries in inoculated and misted nursedown regions of scab resistance on chromosome regions 3BS, 5A, and 2DL by identification events with molecular markers; and 4) Map resistance to DON accums source MD01W233-06-1 by phenotyping and genotyping a 131 doubled haploid pop from the cross of MD01W233-06-1 with the susceptible genotype SS 8641.	Enative resistance wing four ance to scab using es of Uniform Scab eries; 3) Narrow Ifying lines with ulation in the native