FY12 USWBSI Project Abstract

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Project Title: Genetic Characterization of Fusarium Head Blight Resistance in Two Elite Spring

Wheat Cultivars.

PROJECT 1 ABSTRACT

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For many years a Chinese spring wheat, Sumai 3, has been used as the predominant so against Fusarium head blight (FHB) by hard red spring wheat breeders in their breedin markers closely linked to the Fhb1 locus on chromosome 3BS conferring major diseas Sumai 3 origin have been developed and extensively used in the marker assisted breed the spring wheat production regions. To efficiently control the disease, identifying and and novel resistance sources in the germplasm has been the main target of the spring w effort. Two elite cultivars developed by the ND spring wheat breeding programs, Gler consistently exhibit tolerance to FHB in the past years. Previous marker haplotype and information have indicated that both Glenn and Parshall may carry novel resistance ge better understanding of the inheritance of the resistance genes present in these two cult mapping studies will be carried out using three mapping populations involving Glenn Diagnostic markers will be developed and used to assist in introgressing and identifying germplasm carrying these novel genes.	ng programs. DNA se resistance of ling programs in I integrating new wheat breeding an and Parshall, alysis and pedigree enes. To gain a tivars, genetic and Parshall.