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ARS Agreement #: 59-0200-3-005

Research Category: HWW-CP

Duration of Award: 1 Year

Project Title: Validating Multiple FHB Resistance QTLs in Different Winter Wheat Backgrounds.

PROJECT 1 ABSTRACT

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The goal of this project is to deliver germplasm combining multiple resistance genes with multiple elite germplasm to the spring wheat breeders in this region. The rationale is the need to introgress additional FHB resistance QTLs, as well as to study their effect on diverse genetic backgrounds.

The objective of this project is to characterize a set of double haploid HWW lines derived from a series of 4 ways crosses that combined multiple resistant line, each with potentially different resistance genes, into the same genetic background. The phenotypic characterization will be done in collaboration with the regional breeding programs, and the best lines will be incorporated into breeding crossing blocks as appropriate.