FY18 USWBSI Project Abstract

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Project ID: FY18-SC-017 ARS Agreement #: New

Research Category: FST **Duration of Award:** 1 Year

Project Title: Evaluation of Barley and Malt for DON and Deoxynivalenol-3-Glucoside.

The malting and brewing of Fusarium infected barley presents a number of processing, product quality and public health concerns. Fusarium infected barley can be unsuitable for human consumption and for some livestock. The ultimate solution to Fusarium-related problems is the development of FHB resistant barley cultivars. Testing for deoxynivalenol (DON) and other Fusarium mycotoxins is an integral part of barley varietal development programs focusing on Fusarium resistance. This testing, however, is a very expense part of these programs, and thus can limit the number of lines, which may be screened within a given year. The primary objective of this project is to provide barley breeders and pathologists, working on the development of Fusarium resistant barley, with affordable, accurate and timely DON analysis. Testing for other toxins, such as deoxynivalenol-3-glucoside, is also available when needed for specific projects.