FY19 USWBSI Project Abstract

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Project ID: FY18-SC-017 **ARS Agreement #:** *59-0206-8-201*

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

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

PROJECT 1 ABSTRACT

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| The malting and brewing of <i>Fusarium</i> infected barley presents a number of processing, product quality and public health concerns. <i>Fusarium</i> infected barley can be unsuitable for human consumption and for some livestock. The ultimate solution to <i>Fusarium</i> -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 <i>Fusarium</i> 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 <i>Fusarium</i> 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. |
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