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**Project ID: FY14-SC-013**

**ARS Agreement #: New Agreement (Expiring Agreement # 59-0206-9-068)**

**Research Category: FSTU**

**Duration of Award: 1 Year**

**Project Title: Malting Barley Deoxynivalenol Diagnostic Services.**

### **PROJECT 1 ABSTRACT**

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The malting and brewing of *Fusarium* infected barley presents a number of processing, product quality and public health concerns. *Fusarium* infected barley also is 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) is an integral part of barley varietal development programs focusing on *Fusarium* resistance. DON testing, however, is a very expensive 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.