PI: Mark SorrellsPI's E-mail: mes12@cornell.eduProject ID: FY14-NW-009ARS Agreement #: New Agreement (Expiring
Agreement # 59-0206-9-059)Research Category: VDHR-NWWDuration of Award: 1 YearProject Title: Coordinated Phenotyping of Uniform Nurseries and Official Variety Trials.

PROJECT 3 ABSTRACT

(1 Page Limit)

Fusarium head blight resistance must be combined with high yield to impact the Eastern US wheat industry. Our breeding program generates breeding lines each year for advanced stages of development and testing. Multi-location testing is needed to determine the FHB resistance of these lines, as well as their yield, quality, agronomic value, and resistance to other diseases.

Objectives: 1) Phenotype advanced breeding lines that are candidates for release: 2) place FHB and other agronomic, disease resistance, and quality data in database: 3) report on purification and seed increase of the best lines.

We use a spore suspension applied during flowering to inoculate a misted nursery. We will score plots for FHB symptoms and traits about 21 days after anthesis. Atfer harvest data on Fusarium Damaged Kernels will be collected and samples sent to Dr. Dong for vomitoxin analysis.