

**PI: Clay Sneller**

**PI's E-mail: sneller.5@osu.edu**

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**Research Category: VDHR-NWW**

**Duration of Award: 1 Year**

**Project Title: Coordinated Evaluation and Utilization of Marker Assisted Selection.**

**PROJECT 4 ABSTRACT**

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Marker-assisted selection has the potential to improve breeding for FHB resistance. To be effective, breeders need information on how QTL work in their genetic backgrounds, the effect of pyramiding QTL, and any side effects of the QTL. The objective of this project is to assess these factors in soft winter wheat. This will be done by evaluating pairs of near-iso genic lines and related lines for FHB resistance, yield, agronomic value, and quality.