

**Washington Grain Commission  
Wheat and Barley Research Annual Progress Reports and Final Reports**

**Project #: 3184**

**Title:** Breeder Quality Trials

**Cooperators:** Kim Garland-Campbell, Arron Carter, Mike Pumphrey, Clark Neely

**Executive summary:** A new program commenced in FY 2019/20 to ‘pre-screen’ experimental breeding lines before they are entered into the WSU Wheat Variety Trials. This pre-screening was aimed at increasing the likelihood that newly released soft white wheat varieties meet industry standards before gaining substantial acreage and influencing the overall quality of the grain being exported from the Inland PNW. Quality data generated from this trial will be analyzed using the standard *t*-Score and the results (and interpretation) returned to the breeder. The data can also be included in the analysis used for the *Preferred Variety* brochure. The check variety will be drawn from the adjoining Variety Testing nursery.

**Impact:** Being a new program, we are not able to evaluate the impact of the project. However, we anticipate that the project will provide value to growers in two significant ways: First, it documents and highlights the quality of varieties so that breeders –public and private –are aware of the importance of quality and will hopefully include quality in their selection and variety release decisions.

**Outputs and Outcomes:** Following is a summary of experimental lines evaluated under this program (harvest 2020): There were 19 SWW lines submitted and they were evaluated at six locations (there were three samples missing from Dayton). The SWW lines were submitted by WSU (Dr. Arron Carter) and AgriPro. There were three SWS lines submitted and were evaluated from seven locations (one was missing from Fairfield). The SWS lines were submitted by Westbred and AgriPro. In total there were 125 samples evaluated.