

Barley Coordinated Agricultural Project Work Plan FY07 (4/1/07 – 3/31/08)
Steven E. Ullrich, Washington State University

1. Describe the research, education, and outreach activities you are planning for the next year (4/1/07 – 3/31/08)

Research: The 96 CAP breeding lines for 2007 from WSU plus the CAP common checks Robust, Harrington, and Baronesse will be planted in three 35 entry preliminary yield trials at Pullman, WA and Genesee, ID in 20 x 4 ft plots with three replicates. We will collect data on heading date, plant height, lodging, yield, and test weight. Plump grain and protein concentration data will come from malting quality analysis of grain samples through the USDA CCRU and expected in the 2nd half of the FY. All trial entries will be sent in two replicates to the CCRU for malting quality evaluation. Collaboration will continue with B.-K. Baik in his food quality analysis part of the CAP project.

Education: A new PhD graduate student (Sindhu Nair) has started her program in collaboration with Byung-Kee Baik for a food quality genetics CAP related dissertation project. She will also work directly in the CAP breeding line food quality evaluation project under Dr. Baik's direction.

Outreach: Particulars of the CAP project will be relayed to grower group, ag industry representatives and politicians in various field days and grower meetings throughout the year.

2. List specific outcomes and deliverables that will be accomplished in the first 6 months (4/1/ – 9/30/2007). These will be used as benchmarks for your bi-annual progress report.

Research: The CAP breeding nurseries should be planted, field data collected, plots harvested as planned. Post harvest data should be at least partially collected.

Education: PhD student should have her course and research plans finalized in collaboration with Dr. Baik.

Outreach: Presentations at field days will be completed.

3. List specific outcomes and deliverables will be accomplished in the second 6 months (10/1/07 – 3/31/08). These will be used as benchmarks for the bi-annual progress report.

Research: Post harvest data collection from the breeding nurseries should be completed, and all data submitted to the Barley CAP Data Central. Planning for year 3 should have commenced.

Education: PhD student should be well into her course and research program in collaboration with Dr. Baik.

Outreach: Additional presentation should have been made at growers meetings.

Barley Coordinated Agricultural Project Annual Progress Report
FY06 (10/106 – 3/31/07)
Steven E. Ullrich, Washington State University

Research: The 96 CAP breeding lines for 2006 from WSU were identified per the requirements outlined in the CAP Participants Guide. We drilled these lines plus the CAP common checks Robust, Harrington, and Baronesse in three 35 entry preliminary yield trials at Pullman, WA in 20 x 4 ft plots with three replicates. We were only able to plant at one location this year but we will plant at two locations in subsequent years. We collected data on heading date, height, lodging, yield, and test weight. Plump grain and protein concentration data will come from malting quality analysis of grain samples through the USDA CCRU. All trial entries were sent in two replicates to the CCRU for malting quality evaluation. Grain samples for food quality analyses were submitted to Dr. Byung-Kee Baik. The 96 CAP breeding lines for 2007 from WSU were identified per the requirements outlined in the CAP Participants Guide. We will drill these lines plus the CAP common checks Robust, Harrington, and Baronesse in three 35 entry preliminary yield trials at Pullman and Uniontown, WA in 20 x 4 ft plots with three replicates.

Education: A new PhD graduate student (Sindhu Nair) was started in collaboration with Byung-Kee Baik for a food quality genetics CAP related dissertation project. She is also working directly in the CAP breeding line food quality evaluation project under Dr. Baik's direction.

Extension: The Barley CAP was described as part of WSU barley breeding program presentations at several 2006 field days, the Pacific Northwest Farm Forum and Ag-Expo in Spokane, WA, February 6 and 7, 2007, as well as, barley workshops at four eastern Washington locations in February 2007.