

Barley Coordinated Agricultural Project Work Plan for Year 4 (4/1/2009-3/30-2010)
Tom Blake, Montana State University

1) Describe the research, education, and outreach activities you are planning for Year 4 (4/1/2009-3/30-2010)

Research I will plant, harvest and measure the performance of 768 barley CAP entries from both 2007 and 2008 in both irrigated and rainfed environments. These will be compiled with Illumina genotype datasets and association analysis will be performed to illuminate the genes that confer variation for flowering date, plant height, kernel weight, grain yield and water use efficiency.

Education Stan Bates will continue his M.S. degree program. Joanna Gress will begin her Ph.D. program in our project.

Outreach I will continue to talk about the CAP at farmer field days.

2) List specific outcomes and deliverables that will be accomplished in the first 6 months. These will be used as benchmarks for your bi-annual progress report.

Actually, not much. We plant in late April and early May.

3) List specific outcomes and deliverables will be accomplished in the second 6 months. These will be used as benchmarks for the bi-annual progress report.

I will plant and (inshallah) harvest the two reps of the 2007 CAP nursery and the 2008 CAP nursery.

Barley Coordinated Agricultural Project Six-Month Progress Report
(4/1/08 – 9/30/08)
Tom Blake, Montana State University

1) Describe the research, education, and outreach activities you completed (4/1/08 to 9/30/08)

Research We planted the two 768 entry 2 replication nurseries comprised of the 2007 barley cap entries on April 28 and May 3. These experiments were destroyed by hail on June 28. Barley regrew sufficiently to permit us to harvest one replication of this nursery to recover seed. We did this on September 15. We plan to replant the dryland and irrigated CAP nurseries from the 2007 and 2008 nurseries again in the spring of 2009.

Education Stan Bates is continuing his MS degree focused on the genetics underlying water use efficiency variation in barley CAP germplasm.

Outreach I spoke at 4 farmer fielddays and to one trade team and described the barley CAP at each meeting.

2) List specific outcomes and deliverables accomplished (4/1/08 to 9/30/08)

I planted two nurseries that were destroyed by hail.

