

**Barley Coordinated Agricultural Project Work Plan FY06 (3/1/07 – 2/29/08)**  
**Mark Schmitt, USDA ARS, Madison WI**

**1) Describe the research, education, and outreach activities you are planning for the next year (3/1/06 – 2/29/07)**

Research We will malt the barleys submitted to us by participating breeding programs and analyze the materials for standard malting quality attributes. We have committed to malting and analyzing samples for the barley CAP grant program that are within the normally-allocated analyses for participating breeding programs. That is, barley breeders submitting samples to us for analysis will include the CAP samples within their normal submissions.

Education None

Outreach None

**2) List specific outcomes and deliverables that will be accomplished in the first 6 months (3/1 – 8/31). These will be used as benchmarks for your bi-annual progress report.**

Due to delays resulting from relocation of our QA operation to a new facility, malting and analyzing the CY06 samples will be completed during this period (3/1/06 to 8/31/06), rather than in the preceding half year as originally anticipated.

**3) List specific outcomes and deliverables that will be accomplished in the second 6 months (9/1 – 2/29). These will be used as benchmarks for the bi-annual progress report.**

We will malt and analyze submitted barley samples for the specified malting quality attributes. Samples analyzed for the CAP project will fall within participating breeders' normal analysis quotas. Samples submitted early and with high prioritization by the submitting breeder are analyzed first. The timing of the analysis and results reporting is determined in large part by when we receive the samples to be analyzed from the breeders and where within the breeders' normal analysis quotas the submitted samples fall. Lacking information from the other participants as to dates when we will receive the samples (which information is not available to us at present), we cannot be more specific at this point as to when analyses will be completed.

**Barley Coordinated Agricultural Project Biannual Progress Report  
FY06 (4/1/06 – 3/31/07)**

**Mark Schmitt, USDA-ARS, University of Wisconsin**

**Malting and Malt Quality Analysis on Barley CAP samples**

The Cereal Crops Research Unit (CCRU), USDA Agricultural Research Service, in Madison, WI, is responsible for malting submitted CAP samples and determining a standard set of malt quality parameters on the barley and malt.

In September, 2006, the CCRU terminated operations at the former laboratory and relocated to a newly-built facility across the street. The move required that malting and malt quality analysis programs be terminated at the former facility, and the operation re-established at the new facility. This involved both the relocation and reinstallation of existing equipment, as well as installation of new instrumentation. Unfortunately several unforeseen problems relating to establishment of operations in the new facility were encountered, some of which were so critical that they prevented resumption of operations until they could be resolved. It now appears that the roadblocks have been overcome, with operations (malting and barley/malt analytical procedures) returning to normal. Upon completion of system testing, (expected in early April 2007), we will commence malting and analyzing the submitted samples.

To date, we have received just under 1600 barley samples from collaborating barley breeders Smith, Horsley, Ullrich, Obert, Blake and Hayes. We will initiate malting of the CAP samples in April and should complete the malting and analyses by late July.