

Barley Coordinated Agricultural Project Work Plan FY07 (3/1/07 – 2/29/08)
Mitchell L. Wise, USDA, ARS, Cereal Crops Research

1) Describe the research, education, and outreach activities you are planning for the next year (3/1/07 – 2/29/08)

Research: We will analyze the 960 CAP breeding lines for beta glucan content as delineated in the CAP Participants Guide. The analytical method will be a flow injection analysis utilizing the calcofluor fluorescence assay. Each acquisition will be analyzed a single time.

Education: An undergraduate student worker, under the supervision of a USDA scientist, will be employed to conduct these analyses.

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.

The beta glucan content data from approximately half the germplines will be provided to the appropriate CAP coordinator (Kevin Smith, University of Minnesota).

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.

The remaining germplines data for beta glucan content will be provided as above.

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

Mitchell L. Wise, USDA, ARS, Cereal Crops Research

1) Describe the research, education, and outreach activities you conducted in FY06 (3/1/06 – 2/29/07).

All grain samples (960 lines total) were analyzed for beta-glucan content. Results from these analyzes were sent to Dr. Kevin Smith for inclusion in the database.

2) With respect to outreach and education, a new undergraduate student was trained in the laboratory procedures to conduct the beta glucan analysis.