

ARIZONA GRAIN RESEARCH AND PROMOTION COUNCIL  
PROJECT PLAN/RESEARCH GRANT PROPOSAL

Project No.

Calendar Year: 2003                      Anticipated Duration: 11/03 to 11/04

This Project is: Ongoing

Project Leader: Mike Ottman

Location: Maricopa Agricultural Center

Cooperating Personnel: Kim Shantz (WPB), Al Carleton (APB), and Rex Thompson (WWW)

Project Title: Small Grains Variety Testing

- I. Problem and its Significance: One of the first decisions a grower makes in growing a crop is deciding which variety to plant. Seed companies provide variety characteristics but there is still a need for unbiased testing of varieties overseen by an independent entity such as the University of Arizona. Small grain varieties can differ greatly in their adaptation and performance characteristics, and affect profitability.
- II. Objectives: Evaluate small grain varieties at Yuma, Arizona City, and Maricopa.
- III. Project's Benefit to Industry: Unbiased performance data for small grain varieties.
- IV. Plans and Procedures: Small grain variety tests will be conducted at the following locations: Yuma (Western Plant Breeders), Arizona City (Arizona Plant Breeders), and the Maricopa Agricultural Center (World Wide Wheat and University of Arizona). Each company will supply me with seed and I will send back packages of seed to plant a standardized test with 30 to 35 entries of barley and durum. Each cooperator will manage their own trial, harvest the grain, supply yield data, and provide grain samples that I will analyze for test weight, kernel weight, yellow berry, and protein. I will summarize the data and write a report for the four tests.
- V. Technology and Information Transfer to Industry: Via "Small Grain Variety Characteristics", a pamphlet published each year by the University of Arizona
- VI. Budget: \$4000

Operations	\$3000
Travel	<u>1000</u>
Total	\$4000