
Inframatic 9200 Whole Grain Analyzer with Test Weight Module

PI: Steven Petrie

Department: Columbia Basin Agricultural Research Center

Budget Statement: The RERF funds ($21,000) were combined with funds from PI’s located at CBARC and on campus to purchase an Inframatic 92 Whole Grain Analyzer with Test Weight Module. The total cost of the unit was $28,000.

Scholarly work/activities made possible: At least eight different research programs from CBARC and campus collaborated in using the whole grain analyzer (agronomy, club wheat breeding, crop management, plant pathology, soil science, soil fertility, statewide variety testing, and weed science) within the first six months of the unit being placed in service. Each program analyzed hundreds or thousands of individual samples for a total in excess of 10,000 samples being analyzed. These data were used to evaluate varietal differences in grain protein, crop response to fertilizer and various crop management practices, and crop response to pests such as diseases and weeds. The analysis of these samples would have been greatly delayed or simply not conducted without the availability of the whole grain analyzer.

Additional scholarly activities: The availability of the whole grain analyzer permitted scientists at CBARC and on campus to conduct protein analysis that would not have been carried out without the instrument. We conducted additional field trials on N management of soft white winter wheat, hard red winter wheat, and hard red spring wheat due to the availability of the instrument.

External funding requests as a result of the whole grain analyzer:


Petrie, Steven. Agricultural Research Foundation. Crop and nutrient management in dryland cropping systems. $707,310.

