



United States  
Department of  
Agriculture

Agricultural  
Research  
Service

Northern Plains Area  
Northern Great Plains  
Research Laboratory

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Mandan, North Dakota  
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March 1, 1991

Superintendent Thomas J. Conlon  
Dickinson Research Center  
P. O. Box 1117  
Dickinson, ND 58601

Dear Tom:

Enclosed are agronomic and water use data from the spring wheat and barley cultivar trials conducted at Mandan in 1990.

As in previous years, these were planted on summerfallow, planted to about a depth of 1.5 inches in 6-inch row spacings with a disk-opener press drill. Other details of materials and methods are described in North Dakota Agricultural Experiment Station Bulletin No. 523, October 1990.

Planting and harvest dates, and rainfall amounts are shown on Tables 1 and 2. You may note that the measured soil water content at planting was higher in wheat than barley. The reason for this is not apparent to me. Based on measurements on succeeding weeks, the difference appears to be real.

Although I am contemplating retirement, plans are to continue these trials in the future in the same manner as present procedures. This assumes, of course, that you will continue to provide the seed. I will still be around during the 1991 planting season.

For the area we have for these trials, we can accommodate about nine wheat and six barley varieties. If you have access to seed of Excel barley, I would like to include<sup>4</sup> in 1991.

I am enclosing a manuscript submitted to the Experiment Station for consideration as a Research Report. I would appreciate any comments.

Sincerely,

ARMAND BAUER  
Soil Scientist

Enclosure