EXPERIMENTS WITH BARLEY

Experiments with barley in 1952 included field plot trials of eleven named varieties and three Dickinson Experiment Station selections, and nursery trials of 63 varieties, strains and selections.

VARIETAL EXPERIMENTS

The five top yielding varieties in the Dickinson Experiment Station varietal field plot trials in 1952 were: Hannchen which averaged 34.7 b.p.a., Tregal which averaged 33.7 b.p.a., Vantage which yielded 33.0 b.p.a., and two selections from Composite Cross 6725 made at the Dickinson Experiment Station in 1945, Ds. 45-15 which averaged 32.8 b.p.a. and Ds. 45-297 which produced a yield of 31.9 b.p.a.

Data from the 1952 field plot trials is presented in table 13.

Long term averages for the barley variety trials are summarized in table 14.

DICKTOO - A NEW BARLEY FOR NEBRASKA

One of the most interesting developments in connection with the barley work at the Dickinson Experiment Station this year was the release of Dicktoo, a new winter barley variety for Nebraska. Dicktoo, (named for Dickinson Selection Two), traces to some early selection work with barley done at this station by Mr. Ralph W. Smith, former agronomist. Selected originally as a spring barley, this strain was not particularly promising and after several years in trials here was dropped. It had, however, apparently been placed in a regional nursery and found its way into Nebraska where it eventually was tested as a winter barley, and found promising. In the hands of the capable Nebraska agronomists, including L.P. Reitz and O.J. Webster, this strain advanced through the various nursery and field plot trials to emerge this year as a new variety considerably more winterhardy than previously recommended varieties. Dicktoo will help to stabilize winter barley production in Nebraska.
The story of Dicktoo - from Dickinson to Nebraska - points up the value of regional cooperation in the small grains testing programs.

Table 13 - Agronomic Data From Barley Variety Trials - 1952
Date Seeded - 4-22
Date Emerged - 5-3
Rate - 1 bpa
Plot Size - 1/66 acre

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<tr>
<th>1952 No.</th>
<th>Variety or Cross</th>
<th>C.I.or N. No.</th>
<th>Yield - Bu. per acre</th>
<th>Test Weight</th>
<th>Dates</th>
<th>Height Inches</th>
<th>Rank</th>
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</table>

\( a \) Yields in 1941 reduced by hail July 9, not comparable and omitted from averages. Yields not recorded in 1936, crop too poor to harvest.

\( b \) Est. ten percent loss through shattering in wind.

**BARLEY NURSERIES:**

- Uniform Great Plains Nursery - thirteen entries - triplicate
- Station Nursery - fifty entries - triplicate single rows

Vantage, high yielder in 1951, was again on top in the Uniform trial with an average of 37.1 bushels per acre. Utah BC4-68, Harlan and Titan ranked second, third and fourth in the 1952 trial with respective averages of 30.5, 30.3 and 27.3 bushels per acre.
Vantage was top yielder in the station trial also this year averaging 33.2 bushels per acre followed by Rex, Dix. 45-297 and Dix. 45-15 with respective yields of 32.8, 32.1 and 29.8 bushels per acre. Dix. 45-15 from Composite Cross 6725 was also included in this years field plot trial and ranked fourth in the larger trial also, yielding 32.8 bushels per acre. Hannchen, Tregal and Vantage ranked first, second and third in the larger trial with yields of 34.7, 33.7 and 33.0 bushels per acre respectively.

This strain is to be included in the 1953 Uniform Great Plains Barley Nursery.

Data from these barley nurseries is summarized in tables 15 and 16.

<table>
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<tr>
<th>1952 Key No.</th>
<th>Description</th>
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<th>Yield - Bu. per acre</th>
<th>Test Weight</th>
<th>Dates</th>
<th>Height Inches</th>
<th>Rank</th>
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<td>Test Weight</td>
<td>Dates</td>
<td>Height Inches</td>
<td>Rank</td>
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Table 16 - Agronomic Data from Station Barley Nursery - 1952
Date seeded - 4-23
Date emerged - 4-30
Rate - 1 bpa
Plot size - 1' x 16'
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