

# North Dakota State University \* Dickinson Research Extension Center

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## SCIENTIFIC CONFERENCES:

|  |                         |
|--|-------------------------|
| Annual Conference of Branch Station superintendents,<br>North Dakota Agricultural College, Fargo, North Dakota | January 8-16            |
| Wheat Rust Conference, North Dakota Agricultural<br>College  | January 9               |
| North Dakota Agricultural College Hard Spring Wheat<br>Improvement Committee                                   | November 19- December 3 |

## CORRESPONDENCE:

One hundred fifty-five (155) letters concerning station work have been written since November 15, 1952. Individual reports on the various cooperative projects were included with correspondence to personnel in charge of these projects.

## PUBLIC MEETINGS:

|            |   | Attendance |
|------------|---|------------|
| December 3 | Third Annual Fertilizer Dealers Short Course, North Dakota Agricultural College |            |
| December 5 | Third Annual Dickinson Experiment Station Livestock Research Roundup            | 800        |
| March 4    | Valley City Winter Show as small grains judge.                                  |            |
| April 2    | Dickinson State Teachers College Class - Tour of Station                        | 26         |

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|--------------|--|-----|
| April 2      | Dickinson State Teachers College Classroom discussion - Tillage practices for Western North Dakota | 35  |
| May 16       | Antelope 4-H Club tour of Dickinson Experiment Station   | 35  |
| June 2       | Tour of Dickinson Experiment Station by Conservation Class from DSTC                               | 40  |
| June 10      | Tour of Dickinson Experiment Station by Kidder County Farmers                                      | 20  |
| June 23      | Tour of Dickinson Experiment Station by Dickinson Lions Club                                       | 30  |
| June 26      | Tour of Dickinson Experiment Station by Veterans Agriculture Class of DSTC                         | 40  |
| July 1       | Dickinson Experiment Station Crops Field Day.  | 500 |
| July 9       | DSTC Conservation Class - Tour of Dickinson Experiment Station                                     | 40  |
| July 10      | Wibaux 4-H Club Tour of Dickinson Experiment Station.  | 18  |
| July 14      | Medora 4-H Club Camp.  | 100 |
| July 15      | Tour of Dickinson Experiment Station by Rotary Club of Dickinson.                                  | 40  |
| September 4  | Grant County Fall Fair. Judge.   |     |
| September 11 | Golden Valley County Fall Fair - Judge.  |     |
| September 15 | Adams County Fall Fair - Judge.  |     |
| September 18 | Bowman County Fall Fair - Judge.   |     |
| September 23 | Soil Conservation Agronomy School  | 51  |
| September 24 | Soil Conservation Agronomy School - Tour of Dickinson Experiment Station                           |     |

## PUBLICATIONS:

- Douglas, R.J. and Conlon, T.J.: - Tillage methods and Crop Rotations in Southwestern North Dakota. Bulletin 381, April 1953.
- Conlon, T.J., Douglas, R.J., and Moomaw, Leroy: - Rotations and Tillage Investigations at the Dickinson Experiment Station. Bulletin 383, May 1953.
- Sibbitt, L.D., Harris, R.H., and Conlon, T.J.: - Some Relations Between Farinogram and Mixogram Dimensions and Baking Quality - The Baker's Digest, Vol. 27, No. 4, Pages 76-79, August 1953.
- Stoa, T.E., Helgeson, E.A., and Conlon, T.J.: Wild Oats - Can They be Controlled. Bi-monthly Bulletin, Vol. XV, No. 5, Pages 216-223.

## NEWS STORIES:

|               |  |
|---------------|--|
| November 1952 | Barley Variety Trials at the Dickinson Experiment Station in 1952. |
| December 1952 | Tregal Barley Good Yields at Dickinson.                            |
| January 1953  | Variety Picture Unchanged for Western North Dakota in 1953.        |
| February 1953 | Flax Varieties for Western North Dakota in 1953.                   |
| March 1953    | Order Your Evergreens Early.                                       |
| April 1953    | New Grains in Dickinson Experiment Station Variety Trials.         |
| May 1953      | Plan Your War on Weeds Now.  |
| June 1953     | Ladies Program Features Model Garden.                              |
| July 1953     | Good Weed Kill in 1953.  |
| August 1953   | Corn Crop Prospects Improving.                                     |

|                |   |
|----------------|---|
| September 1953 | Wheat on Cornland Yields Well at Dickinson in 1953. |
| October 1953   | Durum Wheat Badly Hurt in 1953.                     |
| November 1953  | Oat Variety Trials at Dickinson 1953.               |

**ABSTRACT OF RESEARCH IN AGRONOMIC INVESTIGATIONS - 1953**  
**THOMAS J. CONLON**

**ROTATION AND TILLAGE TRIALS - 1953**

Yields were good for all major grain crops in the Rotation and Tillage experiments conducted at the Dickinson Experiment Station, with corn being the most outstanding crop this year. Small grain yields followed rather closely the pattern of the 45-year average. Yields on plots green manured in 1952 were exceptionally good, which is usually the case in years when seasonal rainfall is abundant. Stem rust race 15-B caused some damage to wheat and oat stem rust caused some damage to oat plots, but because of early seeding the damage was considerably less than that which occurred in later plantings.

**FERTILIZER TRIALS - 1953**

Two trials in cooperation with the Soils Department, North Dakota Agricultural College, were run to determine effects of phosphating small grain upon the moisture content of the soil profile.

Both trials are being summarized by the Soils Department, North Dakota Agricultural College.

**ROUGHAGE TRIAL - 1953**

This year sorghum and sudan grass made their best growth and showing since the trial was begun, but a good year for sorghum and sudan is also a good corn year. Corn remains the top silage crop for this area both in quantity production and quality of feed.

## **BARLEY TRIALS - 1953**

Experiments with barley at Dickinson included: field plot trials, the Great Plains Barley Nursery and the Station Barley Nursery.

Top yielders in the field plots were: Titan, Dix 45-435, B-103, Manchuria and Dix 45-15.

Top yielders in the Great Plains Nursery were Vantage, Custer, Otis, Wyoming WS 4-68 and Titan, and best in the Station Nursery were three Kindred x Titan selections Trebi and Rex.

The year was very favorable for good barley yields in this area.

## **CORN TRIALS - 1953**

Record yields of both silage and grain were harvested this year. Average silage yields were approximately 6 tons and grain yields ranged up to 60 bushels per acre. Rainbow flint, northern strain remains one of the best yielders here.

## **FLAX TRIALS - 1953**

Flax yields were poor this year, with yields suffering from thin stands and heavy weed growth. Top yielders were Lindas, Sheyenne, Bison, B 5128 and Deoro (C.I. 977).

## **OAT TRIALS - 1953**

Oat experiments at Dickinson this year included field plot trials, the North Central Uniform Nursery and the Station Nursery.

Yields were high in the field plot trials at Dickinson this year with top yields being produced by Clinton x Marion C.I. 5440, Marion, Fortune, Overland, Andrew and Cody. Oat stem rust race 8 badly damaged all susceptible varieties.

Top yielders in the North Central States Uniform Nursery were: C.I. 5441, C.I. 5636, Simcoe, Rodney and Sauk.

Tops in the Station Nursery were Aberdeen No's. 2439, 2435, 2438, C.I. 5636 and Cody. Nursery yields ranged from 60 to 100 bushels per acre.

### **WINTER WHEAT TRIALS - 1953**

Trials with winter wheat at the Dickinson Station for the 1952-1953 season included the Uniform Hard Winter Wheat Winter Hardiness Nursery with nineteen entries, and the Supplementary Winter Hardiness Nursery which included one hundred and forty-three varieties, strains, and selections.

The average percentage of survival of the entries in the Uniform Winter Hardiness Nursery varied from a high of 39% to a low of 13%.

In the Supplementary Winter Hardiness Nursery, survival percentages ranged from a high of 25% to a low of 0 survival.

### **HARD SPRING WHEAT TRIALS - 1953**

Stem rust race 15-B took a heavy toll of both yield and test weight in all wheat trials at Dickinson this year. Durum's were damaged the most with Nugget producing only 6.2 bushels per acre of 48.5 pound grain. Ld. 356 showed some promise, averaging 17.5 bushels of 58.0 pound grain. Canada's C.T. 186 (McMurchy - Exchange x Redman<sup>3</sup>) was most outstanding of all wheats at Dickinson this year, yielding 28.2 bushels per acre of 58.0 pound wheat in the field plots as compared to Mida's yield of 15.1 bushels per acre of 53.5 pound grain.

Date of seeding made a noticeable difference in yield this year with earlier seedings having a decided advantage over late planting.

Bunt infection was comparatively light in the Uniform Bunt Nursery here with infections ranging from zero to 24%.

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