

when grown in rows alternating with rows of wheats not bred at Fargo than when grown intraplanted. This differential effect was marked in seedings of April 17 and

May 3 but was not in evidence in the experiment seeded May 17. The differences in yield were evidently conditioned by similar differences in number of heads per row.

## Agencies Cooperating with the North Dakota Agricultural Experiment Station

**T**HE North Dakota Agricultural Experiment Station has cooperative relationships with many agencies both federal and state. The Experiment Station receives part of its support in federal grants hence its federally sustained projects and accounts are subjected to annual inspection and audit by the Office of Experiment Stations, Agricultural Research Administration, United States Department of Agriculture. Helpful advice is given the director and project leaders by the several administrators in the Office of Experiment Stations, and annual progress reports are submitted to the Office of Experiment Stations.

The United States Department of Agriculture helps the Station in a still more direct way by assigning United States Department of Agriculture staff members, wholly federally paid to this State and Station. At the present time the following research workers serve both the North Dakota Station and the Nation:

### Stationed at Fargo

Glenn S. Smith—Agronomist, Division of Cereal Crops & Diseases, Bureau of Plant Industry, Soils, and Agricultural Engineering, United States Department of Agriculture. Mr. Smith devotes his entire time to durum wheat improvement.

Dr. H. H. Flor, Plant Pathologist, Division of Cereal Crops and Diseases, Bureau of Plant Industry, Soils, and Agricultural Engineering, United States Department of Agriculture. Dr. Flor devotes his entire time to flax diseases in North Dakota and surrounding flax areas. He has given special attention to flax rust, and the newer diseases.

C. L. Englehorn, Associate Soil Scientist, Soil Conservation Service, United States Department of Agriculture. Mr. Englehorn is in charge

of cooperative tillage experiments at the Langdon and Edgeley Substations where special attention is being given to surface types of tillage operations.

### Stationed at Dickinson

Leroy Moomaw, Associate Agronomist, Division of Dry Land Agriculture, Bureau of Plant Industry, Soils, and Agricultural Engineering, United States Department of Agriculture and Superintendent of the State Substation. Mr. Moomaw gives special attention to crop rotations and tillage methods, grass testing, and the testing of orchard fruits, shrubs, and ornamental trees.

Ralph Smith, Associate Agronomist, Division of Cereal Crops and Diseases, Bureau of Plant Industry, Soils, and Agricultural Engineering,  
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grasses become palatable or unpalatable and give indication of what might be expected when certain combinations of grasses are used together in mixtures. A detailed report on these investigations has been

published in the Journal of the American Society of Agronomy. Vol. 36, No. 6, June 1944 "Relative Palatabilities of Grasses Under Cultivation on the Northern Great Plains" by George A. Rogler.

## Agencies Cooperating . . . .

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U. S. D. A. Mr. Smith gives special attention to cereal breeding, testing of cereal varieties, corn, and forage crop varieties.

### Stationed at Mandan

Cooperative relationships are maintained with the Northern Great Plains Field Station of the Office of Dry Land Agriculture, Bureau of Plant Industry, Soils, and Agricultural Engineering along all lines. Much of the work accomplished by the Mandan Station has been published by the North Dakota Agricultural Experiment Station — this includes their work on crop rotations, forestry, grazing, grasses, etc. Special mention should be made of the long-time cooperative trials with this Station on the grazing of native and cultivated pastures, the latest results which are reviewed in this issue of the Bimonthly Bulletin. The following Mandan workers are cooperating closely with this Station:

Other research agencies which are cooperating with the Station include the Division of Cereal Crops and Diseases, Bureau of Plant Industry, Soils, and Agricultural Engineering, United States Department of Agriculture, which in addition to assigning staff members to residence at Fargo or elsewhere in the State, makes a special grant for certain phases of wheat breeding. Other United States Department of Agriculture bureaus with which there is at present active cooperation include the Bureau of Agricultural Economics, the Bureau of Entomology and Plant Quarantine, the Bureau of Agricultural and Industrial Chemistry, the Bureau of Animal Industry, the Bureau of Dairy Industry, and the Bureau of Home Economics and Nutrition, all of the United States Department of Agriculture.

Within the State the Station is actively cooperating with the North Dakota Research Foundation, the Walsh County Agricultural and Training School, the State Water Conservation Commission, the State Mill and Elevator, and the State Department of Agriculture and Labor, and the State Pure Seed Commission. The Station stands ready to cooperate with all state, federal, and private agencies and persons subject only to the limitation of the size of its personnel and the availability of funds.

Special mention should be made of the constant field cooperation within the Extension Service of the College, a field area of the institution through which the researches of the Station are brought to the attention of the farmers. Finally the director desires to express his appreciation of the time put in by hundreds of North Dakota farmers and ranchers who have run test plots, and made valuable observations. Farm organizations and commercial organizations have all helped get out the facts about the work of the Station this cooperation is gratefully acknowledged.

### With Office of Dry Land Agriculture

J. M. Stephens, Superintendent and Principal Agriculturist.

John C. Thysell, Associate Agronomist.

Ernest J. George, Assistant Superintendent and in charge of Forestry investigations.

William P. Baird, Associate Horticulturist.

Howard J. Haas, Assistant Agronomist.

### With Division of Forage Crops & Diseases, Bureau of Plant Industry, Soils, and Agricultural Engineering

George A. Rogler, Associate Agronomist.

### With Division of Cereal Crops and Diseases

Dr. Roderick Sprague, Plant Pathologist.

### With Division of Dairy Cattle Breeding, Feeding and Management

A. L. Watt, Assistant Dairy Husbandry Superintendent.

H. L. WALSTER, Director.