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of the  
**NORTH DAKOTA AGRICULTURAL EXPERIMENT STATION**

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ADMINISTRATION

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Peder A. Nystuen <sup>12</sup> , B.S. ....	Admin. Assistant
Mrs. John B. Wentz <sup>12</sup> .....	Librarian

AGRICULTURAL CHEMISTRY

Edgar P. Painter <sup>12</sup> , Ph.D. ....	Agr. Chemist
Harold J. Klosterman <sup>12</sup> , B.S. ....	Asst. Agr. Chemist
George G. Maher <sup>12</sup> , B.S. ....	Asst. in Agr. Chemistry
	Asst. Agr. Chemist

AGRICULTURAL ECONOMICS

Cap E. Miller <sup>4</sup> , M.S. ....	Agr. Economist
Perry V. Hemphill <sup>16</sup> , M.S. ....	Asst. Agr. Economist
Reuben Engelking <sup>12</sup> .....	Statistical Clerk

AGRICULTURAL ENGINEERING

Wm. J. Promersberger <sup>3</sup> , M.S. ....	Agr. Engineer
Richard L. Witz <sup>12</sup> , M.S. ....	Assoc. Agr. Engineer

AGRICULTURAL ENTOMOLOGY

J. A. Munro <sup>4</sup> , Ph.D. ....	Agr. Entomologist
R. L. Post <sup>6</sup> , B.S. ....	Assoc. Agr. Entomologist

AGRONOMY — CROPS

T. E. Stoa <sup>12</sup> , M.S. ....	Agronomist
L. R. Waldron <sup>12</sup> , Ph.D. ....	Plant Breeder (Cereal Breeding)
Wm. Wiidakas <sup>12</sup> , M.S. ....	Asst. Agronomist (Corn Breeding)
A. J. Lejeune <sup>6</sup> , M.S. ....	Asst. Agronomist (Barley Breeding)
Clarence Swallers <sup>12</sup> , B.S. ....	Asst. Agronomist
Olaf Heggeness <sup>12</sup> .....	Asst. in Flax Investigations

AGRONOMY — SOILS

Gordon A. Johnsgard <sup>3</sup> , Ph.D. ....	Soil Scientist
Clifford C. Volkerding <sup>3</sup> , Ph.D. ....	Assoc. Soil Scientist

ANIMAL AND HUMAN NUTRITION

F. W. Christensen <sup>6</sup> , M.S. ....	Animal Nutritionist
D. W. Bolin <sup>12</sup> , M.S. ....	Assoc. Nutritionist
Eunice Kelly <sup>12</sup> , M.S. ....	Human Nutritionist

ANIMAL HUSBANDRY

M. L. Buchanan <sup>6</sup> , M.S. ....	Animal Husbandman and Chief Division of Animal Industry
Burl Winchester <sup>6</sup> , M.S. ....	Assoc. Animal Husbandman
J. F. Kelley <sup>3</sup> , B.S. ....	Farm Superintendent

**BACTERIOLOGY**

C. I. Nelson <sup>8</sup> , Ph.D. ....	Bacteriologist
Owen B. Weeks <sup>1</sup> , Ph.D. ....	Assoc. Bacteriologist
Helen C. Fowler <sup>5</sup> , B.S. ....	Lab. Assistant

**BOTANY**

E. A. Helgeson <sup>6</sup> , Ph.D. ....	Botanist & Plant Physiologist
O. A. Stevens <sup>6</sup> , M.S. ....	Botanist

**CEREAL TECHNOLOGY**

R. H. Harris <sup>12</sup> , Ph.D. ....	Cereal Technologist
J. D. Sibbitt <sup>12</sup> ....	Asst. Cereal Technologist
Orville Banasik <sup>3</sup> , B.S. ....	Research Assistant

**DAIRY HUSBANDRY**

Chris Jensen <sup>6</sup> , Ph.D. ....	Dairy Technologist
D. W. Espe <sup>6</sup> , Ph.D. ....	Dairy Husbandman
Lyle D. Beck <sup>12</sup> , B.S. ....	Asst. Dairy Technologist
Mrs. Emily Plath <sup>12</sup> , M.S. ....	Technician

**HORTICULTURE**

Harold Mattson <sup>12</sup> , B.S. ....	Horticulturist
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**PLANT PATHOLOGY**

W. E. Brentzel <sup>12</sup> , B.S., A.M. ....	Plant Pathologist
W. G. Hoyman <sup>2</sup> , Ph.D. ....	Plant Pathologist

**POULTRY HUSBANDRY**

Reece L. Bryant <sup>9</sup> , Ph.D. ....	Poultry Husbandman
O. A. Barton <sup>2</sup> , B.S. ....	Poultry Husbandman

**VETERINARY SCIENCE**

D. F. Eveleth <sup>12</sup> , B.S., M.A., Ph.D., D.V.M. ....	Veterinarian
F. M. Bolin <sup>2</sup> , D.V.M. ....	Assoc. Veterinarian
Alice I. Goldsby <sup>12</sup> , A.B. ....	Lab. Technician

6, 8, 9, 12—These numbers following the names of staff indicate the number of months per calendar year that the staff member is paid by Experiment Station funds. The total resident staff of research workers is equivalent to 32 professionally trained men and women, on a full calendar year basis.

**BRANCH STATIONS****DICKINSON BRANCH STATIONS<sup>1</sup>**

(Livestock and Crops Units)

Leroy Moomaw, B.S. ....	Superintendent
.....	Agronomist
Kenneth Ford, B.S. ....	Animal Husbandman, in charge of Livestock Unit (on leave of absence)
R. L. Lambourn ....	Acting Animal Husbandman in charge of Livestock Unit.

**EDGELEY STATION<sup>2</sup>**

J. P. Tiernan ....	Superintendent
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**HETTINGER STATION**

Edgar Martin, Ph.D. ....	Superintendent
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<sup>1</sup>The crops unit established in 1905 cooperates with the Division of Soils, Fertilizers and Irrigation and the Division of Cereal Crops and Diseases, Bureau of Plant Industry, Soils and Agricultural Engineering, U.S.D.A.  
<sup>2</sup>Cooperative work with Research Division, Soil Conservation Service, U.S.D.A. included.

## LANGDON STATION\*

Victor Sturlaugson .....Superintendent

NORTH CENTRAL EXPERIMENT STATION  
AND STATE SEED FARM, MINOT

G. N. Geiszler, M.S. ....Superintendent

WILLISTON BRANCH STATIONS  
(Irrigation<sup>1</sup> and Dryland<sup>2</sup> Units)Arlon G. Hazen, M.S. ....Superintendent and  
Assoc. Agr. Engineer

\*Cooperative work with Research Division, Soil Conservation Service, U.S.D.A., with Division of Cereal Crops and Diseases, Bureau of Plant Industry, Soils, and Agricultural Engineering, U.S.D.A.

<sup>1</sup>The Williston Irrigation Unit of 40 acres is located in the Lewis and Clark Irrigation District in McKenzie County.<sup>2</sup>The Williston Dryland Unit is located on the upland in Williams County. The farm has been laid out on the contour in cooperation with the Soil Conservation Service, U.S.D.A.FEDERAL COOPERATING PERSONNEL  
STATIONED AT MAIN STATIONH. H. Flor, Ph.D. ....Plant Pathologist  
Division of Cereal Crops & Diseases, Bureau of Plant Industry, Soils  
& Agr. Eng., U.S.D.A. (Flax Diseases)Carl L. Englehorn, M.S. ....Associate Soil Scientist  
Soil Conservation Service, U.S.D.A. (Soil Management)Glenn S. Smith, M.S. ....Agronomist  
Division of Cereal Crops & Diseases, Bureau of Plant Industry, Soils &  
Agr. Eng., U.S.D.A. (Durum Wheat Breeding)Lloyd Shoesmith, B.S. ....State Soil Scientist  
Soil Conservation Service, U.S.D.A. (Soil Conservation District Soil  
Surveys)George C. Mayoue, M.S. ....Plant Pathologist  
Plant Disease Control, Bureau of Entomology & Plant Quarantine  
Div. of Plant Disease Control, U.S.D.A. (Barberry Eradication)Wm. T. McKean, M.S. ....Assistant Field Biologist  
Fish and Wildlife Service, U.S. Dept. of Interior & the North Dakota  
State Game & Fish Department. (Wildlife Studies)

## COOPERATING AGENCIES

in

## NORTH DAKOTA

Northern Great Plains Field Station, Bureau of Plant Industry, Soils and Agricultural Engineering, U.S.D.A., Mandan, North Dakota. The North Dakota Agricultural Experiment Station cooperates with the Mandan Station in the maintenance of pasture trials, and in grass breeding.

Walsh County Agricultural and Training School, Park River, North Dakota. The North Dakota Agricultural Experiment Station cooperates with the Walsh County School in maintaining crop variety trials and in potato breeding work.

The North Dakota Research Foundation, Bismarck, North Dakota. The North Dakota Agricultural Experiment Station cooperates with the North Dakota Research Foundation in a butter standardization project.

## FEDERAL COOPERATING PERSONNEL STATIONED AT OTHER POINTS IN THE STATE

Merick Sprague, Ph.D. .... Plant Pathologist,  
Div. of Cereal Crops and Diseases, Bureau of Plant Industry, Soils and  
Agr. Engineering, U.S.D.A. At Northern Great Plains Field Station at  
Mandan, N. Dak. (Rootrots of cereals and grasses)

## COOPERATING BUREAUS AND AGENCIES OF U. S. DEPARTMENT OF AGRICULTURE

(The cooperation may be informal or may be covered  
by special memoranda of agreement)

Bureau of Agricultural Economics:

- Office of State Agricultural Statistician
- Division of Land Economics
- Division of Farm Management
- Division of Marketing and Transportation Research

Bureau of Plant Industry, Soils, and Agricultural Engineering:

- Division of Cereal Crops and Diseases
- Division of Forage Crops and Diseases
- Division of Fruits and Vegetable Crops and Diseases
- Division of Soils, Fertilizers, and Irrigation
- Division of Agricultural Engineering

Bureau of Agricultural and Industrial Chemistry

Bureau of Entomology and Plant Quarantine:

Bureau of Animal Industry:

Bureau of Dairy Industry:

Bureau of Human Nutrition and Home Economics:

Production and Marketing Administration:

Soil Conservation Service:

Office of Experiment Stations, Agricultural Research Administration:

## COOPERATION WITH STATE AGENCIES

The North Dakota Agricultural Experiment Station maintains informal cooperation with all state agencies but especially with the following:

- The Extension Service of the North Dakota Agricultural College
- The Industrial Commission
- The Public Service Commission
- The Water Conservation Commission
- The State Soil Conservation Districts
- The Department of Public Instruction
- The State Historical Society
- The State Department of Agriculture and Labor
- The State Livestock Sanitary Board
- The State Poultry Improvement Board
- The State Seed Department

THE NORTH DAKOTA AGRICULTURAL COLLEGE  
AGRICULTURAL EXPERIMENT STATION  
STATE COLLEGE STATION  
FARGO, NORTH DAKOTA

FREE BULLETIN

*H. Swalster*

DIRECTOR

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RICHARD L. WITZ  
CAMPUS