

## PERSONNEL

### DICKINSON BRANCH STATION NORTH DAKOTA AGRICULTURAL EXPERIMENT STATION NORTH DAKOTA STATE UNIVERSITY

as of January 1, 1988

|   |      |
|---|------|
| Thomas J. Conlon, M.S. Superintendent and Agronomist    | 1948 |
| James L. Nelson, B.S. Animal Scientist                  | 1969 |
| Douglas G. Landblom, M.S. Animal Scientist              | 1974 |
| Burt Melchior, Ag Res Tech II, Crops-Livestock Research | 1973 |
| Lee Tisor, Ag Res Tech III, Crops-Livestock Research    | 1980 |
| Garry Ottmar, Ag Res Tech II, Livestock Research        | 1980 |
| David Bartow, Ag Res Tech II, Maintenance, Feed Making  | 1983 |
| Jeffrey Kubik, Ag Res Tech II, Livestock Research       | 1984 |
| Robert Paluck, Ag Res Tech II, Livestock Research       | 1988 |
| David Claypool, Res Spec I, Crops, Soils Research       | 1984 |
| Jane Olheiser, Sec. II, Administration Secretary        | 1966 |
| Ann Bertie, Clerk II, General Office                    | 1974 |

1. **NAME AND RANK**  
Thomas J. Conlon, Superintendent and Agronomist
2. **YEARS OF SERVICE**  
41 years
3. **YEARS IN PRESENT RANK**  
20 years
4. **INSTRUCTION RESPONSIBILITY**  
N/A
5. **GRADUATE STUDENT ADVISED**  
N/A
6. **RESEARCH PROJECT LEADER**  
Projects ND06240, 6243, 6244, 6230
7. **INTERDISCIPLINARY PROJECTS**  
Projects ND01601, 1614, 1625, 1630, 3610, 3613, 1623, 1786,  
3731, 1922, 6262, 6263, 6264, 6203
8. **PROJECTS IN PREPARATION**  
None
9. **RECENT PROFESSIONAL ACTIVITIES**  
See page 9
10. **PUBLICATIONS**  
Listed on page 13, 14
11. **COMMITTEE ASSIGNMENTS**  
  
North Dakota Pork Producers, Swine Health and Research Committee  
North Dakota Stockmen's Assn., NDSA Research Committee  
Branch Station Promotion Committee  
North Dakota Cow Calf Conference, Planning Committee  
North Dakota Range Research, Planning Committee
12. **OTHER PROFESSIONAL ACTIVITIES**  
See page 9
13. **RECOGNITION RECEIVED**  
N.D. Crop Improvement Assn. Distinguished Service Award
14. **EXTENSION OR PROMOTIONAL ACTIVITIES**  
Listed on page 9

1. **NAME AND RANK**  
James Lee Nelson, Animal Scientist
2. **YEARS OF SERVICE**  
21 years
3. **YEARS IN PRESENT RANK**  
14 years
4. **INSTRUCTIONAL RESPONSIBILITY**  
N/A
5. **GRADUATE STUDENT ADVISED**  
N/A
6. **RESEARCH PROJECT LEADER**  
ND0 6221, 6223, 6230
7. **INDERDISCIPLINARY PROJECTS**  
ND0 1786, 3731, 1922
8. **PROJECTS IN PREPARATION**  
Induced abortion in feedlot heifers using Luprostiol or Bovalene with Dr. Tom Newby, Norden Laboratories.  
Feedlot rations utilizing dry rolled barley, oil type sunflower seeds and sodium bicarbonate.  
Horn Fly control in beef cows using Maxcon and Tomahawk ear tags and Inhibitor slow release bolus.  
Worming feedlot heifers with Tramisol or Ivomec.
9. **FUTURE RESEARCH**  
An evaluation of hay storage methods to reduce excessive losses with Dr. Steve Boyles.  
Effect of a plastic roughage substitute with all barley grain rations for backgrounding-finishing beef cattle.  
Utilization of native range and Alti wildrye for late fall early winter grazing with special emphasis on supplemental protein sources. In cooperation with Dr. Joel Caton, NDSU.  
An evaluation of protein supplementation on forage (hay) digestability in dry lot with Dr. Joel Caton.  
Swine production using LISA (low input sustainable agricultural production) techniques.  
Effects of water quality on pig performance, with special emphasis on the weanling pig.  
Using whole plant “barleylage” or “oatlage” from large plastic bag silos for backgrounding beef calves.
10. **RECENT PROFESSIONAL ACTIVITIES**  
Panel speaker NDSU-NDSA Cow/Calf Conference
11. **PUBLICATIONS**  
Listed on page 13, 14
12. **COMMITTEE ASSIGNMENTS**  
Listed on page 10
13. **OTHER PROFESSIONAL ACTIVITIES**  
Member Dickinson State University Agricultural Dept. Advisory Board,  
Member Dickinson High School Vocational Ag Dept. Advisory Board.

1. **NAME AND RANK**  
Douglas G. Landblom, Associate Animal Scientist
2. **YEARS OF SERVICE**  
14 years
3. **YEARS IN PRESENT RANK**  
1 year
4. **INSTRUCTIONAL RESPONSIBILITY**  
None
5. **GRADUATE STUDENT ADVISED**  
None
6. **RESEARCH PROJECT LEADER OR CO-LEADER**  
Project ND06221, 6223, and 6230
7. **INTERDISCIPLINARY PROJECTS**  
Project ND01786, ND01922, and ND03731
8. **PROJECTS IN PREPARATION**  
Ovulation induction methods compared among non-cycling beef cows is being prepared for the 39<sup>th</sup> Livestock Research Roundup, and North Dakota Farm Research.  
Ivomec and a Totalon/Warbex combination compared for parasite control in feedlot heifers is being prepared for the 39<sup>th</sup> Livestock Research Roundup, and North Dakota Farm Research.  
Brood cow efficiency management study progress report II is currently being reviewed by project cooperators for the 39<sup>th</sup> Livestock Research Roundup, and North Dakota Farm Research.  
Drylot wintering of pregnant beef cows supplemented with either Crystalyx<sup>R</sup> or barley is being summarized for the 39<sup>th</sup> Livestock Research Roundup, Hubbard Milling Company's nutrition and promotional representatives, and North Dakota Farm Research.
9. **FUTURE RESEARCH**  
**Beef:** A spring breeding study to evaluate the reproductive performance of lactating beef cows supplemented with Crystalyx<sup>R</sup>.  
A fall grazing study to evaluate the effect of Crystalyx supplementation on dry matter intake of lactating beef cows grazing mature native forage.  
An investigation to evaluate induced calving and its subsequent affect on labor reduction and re-breeding success in a naturally sired beef herd.  
**Swine:** Recently acquired eight purebred Hampshire bred gilts from Mr. Walter Gietzen, Glen Ullin. Sow herd will be built up to approximately twenty sows that will be farrowed spring and fall. The first research project will be to compare weaning management techniques that will reduce the customary gain depression associated with weaning.
10. **RECENT PROFESSIONAL ACTIVITIES**  
ASAS Midwest Section Annual Meeting, Des Moines, IA, NDSA-NDSA Cow/Calf Conference, DES Livestock Research Roundup, Cow/Calf Update meeting, New Town, N.D. Pork Producers Profitability Conference and Trade Show, McKenzie Co. livestock meeting, Watford City, and Producer/NDSU meeting to discuss future direction of the DES Line 1 Polled Hereford herd.
11. **PUBLICATIONS**  
Listed on page 13, 14

**Douglas G. Landblom (Continued):**

**12. COMMITTEE ASSIGNMENTS**

Branch Station Organization Committee

**13. OTHER PROFESSIONAL ACTIVITIES**

American Society of Animal Science  
North Dakota Stockmen's Association  
Toastmasters International  
Gideons International

**14. ACADEMIC RECOGNITION RECEIVED**

None

**15. EXTENSION OR PROMOTIONAL ACTIVITIES**

Listed on page 11, 12

1. **NAME AND RANK**  
Dave Claypool, Research Specialist I
2. **YEARS OF SERVICE**  
5 years
3. **YEARS IN PRESENT RANK**  
4 years
4. **INSTRUCTION RESPONSIBILITY**  
None
5. **GRADUATE STUDENT ADVISED**  
None
6. **RESEARCH PROJECT LEADER**  
N/A
7. **INTERDISCIPLINARY PROJECTS**  
N/A
8. **PROJECTS IN PREPARATION**  
Studies conducted in cooperation with NDSU Department of Soil Science: Climatology of Soil Water (Dr. Enz), Soil Erosion and Crop Production (Dr. Cihacek), Crop Development and Drought Stress (Dr. Goos).  
Prepared results from soil survey of crop rotation plots for publication in Soil Survey Horizons.  
Continued analysis of master's thesis data.  
Continued to expand the station's use of computer programs and equipment to analyze data and to prepare reports and presentations.
9. **RECENT PROFESSIONAL ACTIVITIES**  
Attended spring and fall branch station conferences. Organized branch station computer workshop held in April at Carrington. Took part in branch station tour of the Swift Current Research Station, Sask. Gave presentations on corn and sunflower production at the Taylor Institute and at an extension meeting in Beach. Presented a review of soil fertility concepts at the "Wheat Wizard Workshop", Dickinson. Attended NDSU Wheat School, Dickinson. Judged barley entries at the Valley City Winter Show. Continued study in M.S. program at NDSU.
10. **COMMITTEE ASSIGNMENTS**  
Branch Station Professional Development and Training Committee.
11. **OTHER PROFESSIONAL ACTIVITIES**  
American Society of Agronomy, Soil Science Society of America, Soil and Water Conservation Society, Cousteau Society, The Nature Conservancy, Theodore Roosevelt Nature and History Association.
12. **ACADEMIC RECOGNITION RECEIVED**  
None
13. **EXTENSION OR PROMOTIONAL ACTIVITIES**  
None

## PROJECTS

| <u>NUMBER</u> | <u>TITLE</u>   | <u>PRINCIPAL INVESTIGATOR</u> |             |
|---------------|--|-------------------------------|-------------|
| ND01601       | Hard Red Spring Wheat Improvement                          | R. Frohberg                   | NDSU        |
| ND01608       | Barley Improvement   | E.A. Foster                   | NDSU        |
| ND01614       | Durum Improvement  | R.G. Cantrell                 | NDSU        |
| ND01625       | Hard Red Winter Wheat Improvement                          | D. Cox                        | NDSU        |
| ND01630       | Oat Improvement  | M. McMullen                   | NDSU        |
| ND03610       | Sunflower, Minor & New Crops                               | A.A. Schneiter                | NDSU        |
| ND03613       | Distribution of Foundation Seed                            | L.A. Spilde                   | NDSU        |
| ND06240       | Evaluation of Cereal Cultivars and<br>Advanced Selections  | T.J. Conlon                   | DES         |
| ND06243       | Crop Production and Soil Management<br>Systems             | R.J. Goos<br>T.J. Conlon      | NDSU<br>DES |
| ND06244       | Specialty Crops  | T.J. Conlon                   | DES         |
| ND06203       | Horticultural & Woody Plant Trials                         | T.J. Conlon                   | DES         |
| ND06230       | Grassland Management                                       | T.J. Conlon                   | DES         |
| ND01786       | Pasture Management for Western ND                          | L.L. Manske                   | NDSU        |
| ND01922       | Short Duration Grazing in the Mixed<br>Grass Prairie of ND | D.R. Kirby                    | NDSU        |
| ND03731       | Use of Plant Growth Regulators on<br>Grass Pastures        | L.L. Manske                   | NDSU        |
| ND06221       | Livestock Feeding  | J.L. Nelson                   | DES         |
| ND06223       | Livestock Disease  | J.L. Nelson                   | DES         |
| ND02520       | Weather & Climate Research                                 | J. Enz                        | NDSU        |

## MEETINGS AND EVENTS - 1988

### Thomas J. Conlon

|              |  |
|--------------|--|
| Attended     | Consultation Board meeting   |
| Participated | Research Committee NDSA  |
| Participated | Branch Station Superintendents & OMB   |
| Participated | 40 <sup>th</sup> Annual Taylor Institute   |
| Presented    | Golden Valley County Crop Improvement Assn. meeting                                    |
| Hosted       | Logan, McIntosh Counties Farmer-Rancher tour   |
| Attended     | Branch Station Spring Conference   |
| Meeting      | USDA Forest Service Medora Ranger District   |
| Attended     | NDSA Research Committee meetings Bismarck & Mandan                                     |
| Attended     | ND Pork Producers State Board meetings Mandan, Minot                                   |
| Attended     | SW County Agents Beef Workshop   |
| Hosted       | St. Mary's New England and Jefferson school tour                                       |
| Presented    | Russian Wheat Aphid Seminar to Farmers Union   |
| Hosted       | SW District County Agents  |
| Hosted       | Area Soil Judging contest  |
| Presented    | Off-Station Twi-lite Tours at Golden Valley, Oliver, Mercer, Grant and Morton Counties |
| Presented    | Dickinson Station Crops Field Day  |
| Attended     | Legislative Council meeting  |
| Judge        | Golden Valley Fair   |
| Hosted       | Legislative Budget Tour group – Ranch, Land Development                                |
| Presented    | Livestock Research Roundup   |
| Attended     | Branch Station Conference  |
| Presented    | SW Grain Cooperative Dealer Appreciation Day   |
| Attended     | State Crop Improvement Assn. - Minot   |
| Attended     | Rotary Farmers Night   |
| Attended     | Cow-Calf Conference  |
| Participated | NDSU-USDA Range Research Committee   |
| Attended     | Consultation Board meeting at Mandan   |
| Presented    | Western Dakota Crops Day - Hettinger   |



## MEETINGS AND EVENTS - 1988

### James L. Nelson

|           |  |
|-----------|--|
| Attended  | Meetings of DES Advisory Board                           |
| Attended  | Legislative Council meeting                              |
| Attended  | Ray Reich Charolais bull sale, purchased 2 bulls         |
| Meeting   | DHS Vocational Ag Advisory Board meeting                 |
| Attended  | Taylor Farm Institute                                    |
| Attended  | ND Pork Producers meetings in Minot, Mandan & Carrington |
| Attended  | Dickinson Chamber of Commerce Ag meeting                 |
| Attended  | Dialogue "88" at DSU                                     |
| Attended  | Bull Sale at Western - purchased bull #27                |
| Meeting   | Dr. Kurt Wohlgemuth on worming                           |
| Meeting   | Dr. Steve Boyles on hay bale trial                       |
| Hosted    | Logan County Ranch Tour Group                            |
| Attended  | Branch Station Conference                                |
| Meeting   | DSU Advisory Board                                       |
| Meeting   | S.W. County Extension Agents                             |
| Meeting   | LaDon Johnson and Dr. Joe Crenshaw                       |
| Presented | Talk on Nitrates at DES Crops Field Day                  |
| Meeting   | Dr. Dennis Kopp and Dr. H.J. Meyer                       |
| Judged    | Dairy Division at Stark County 4-H Achievement Days      |
| Attended  | CHAPS meeting  |
| Attended  | Luncheon with Pres. Dr. James Ozbun                      |
| Attended  | Legislative Budget tour                                  |
| Meeting   | Bill Drummond, ND Barley Council                         |
| Presented | Radio interview at KLTC with Ray David                   |
| Presented | Livestock Research Roundup                               |
| Meeting   | Fall Branch Station Conference                           |
| Attended  | Rotary Farmer-Rancher Night                              |
| Toured    | Experiment Station with Dr. Joel Caton                   |
| Presented | Paper at Cow-Calf Conference on Embark for Pastures      |

## Meetings and Events

### D. G. Landblom

- Assisted - In the purchase of two Charolais herd sires, MR. Expo 725 and MR. Knockout 773, from the Ray Reich Charolais Ranch, Richardton, ND.
- Attended - Dialog 88' Seminar conducted by Dr. H.R. Lund and Dr. W. Pietsch that was presented in the Dickinson State University Agricultural Complex.
- Participated - In Chamber of Commerce Ag. Committee activities during the year, and served as West River Ag Expo show chairman.
- Attended - North Dakota State Charolais Sale at Western Livestock Company and participated in the purchase a son of Performer, MR Knockout 710, from Flanders Charolais, Pettibone, ND
- Met with - Dr. Kurt Wohlgemuth and discussed worming experiments.
- Met with - Dr. Steve Boyles and discussed bale stacking experiment.
- Attended - Fall and Spring Branch Station Conferences in Fargo.
- Presented - Paper at the American Society of Animal Science Midwest Section Annual Meeting, March 21-23 in Des Moines, Iowa.
- Attended - Dickinson Experiment Station Crops Field Day and presented drought related information on water quality.
- Met with - Dr. Dennis Kopp and Dr. H.J. Meyer at the Ranch HQ and surveyed the fly control experiment, and took fly counts.
- Welcomed - Land judging contestants to the Dickinson Experiment Station Ranch HQ where the contest was conducted.
- Attended - CHAP'S performance testing software program update presented by Dr. Kris Ringwall in Dickinson.
- Participated - In hosting Legislative Budget Committee Tour of the Dickinson Experiment Station, and attended evening reception hosted by the Dickinson State University Scholarship Foundation.

**D. G. Landblom – Meetings and Events (Continued):**

- Attended - All Breed Beef Cattle Tour sponsored by the N. D. Stockman's Association in the Bismarck area, and made an interview with Al Gustin.
- Participated - In meeting with several North Dakota Barley Council members and their director, Mr. Bill Drummond, and discussed past and future research with barley in beef cattle and swine.
- Participated - In the Dickinson Experiment Station's 38<sup>th</sup> Livestock Research Roundup.
- Assisted - North Dakota Angus Association by weighing bulls on gain test at the Art Ridl feedlot located northwest of Dickinson.
- Hosted - Tour of Ranch HQ for visiting sheep specialist, Dr. Dick Spaeth, Kansas State University.
- Attended - SW Area Pork Producers Annual Meeting in Bismarck.
- Presented - Paper at the North Dakota Cow/Calf Conference in Bismarck.
- Attended - North Dakota State Pork Producers Budget Committee Meeting in Carrington, ND.

## PUBLICATIONS

CONLON, T.J., and E. ERIKSMOEN. 1988. "Hard Red Spring Wheat, Durum, Oats, and Barley Variety Trials". Fifth Annual Western Dakota Crop Day Research Report. Dickinson – Hettinger Agricultural Experiment Stations. pp 1-28.

CONLON, T.J., and E. ERIKSMOEN. 1988. "Specialty Crop Yields". Fifth Annual Western Dakota Crop Day Research Report. Dickinson – Hettinger Agricultural Experiment Station. pp 29-41.

LANDBLOM, D.G., J.L. NELSON, L. MANSKE and P. SJURSEN. 1988. "Brood Cow Efficiency Study". Thirty-eighth Livestock Research Roundup. Sec. 1, pp 1-13.

NELSON, J.L., D.G. LANDBLOM and LADON JOHNSON. 1988. "Barley and Sunflower Rations for Backgrounding Steers". Thirty-eighth Livestock Research Roundup. Sec. 1, pp 15-20.

LANDBLOM, D.G., J.L. NELSON and W.D. SLANGER. 1988. "Ivomec and a Totalon/Warbex Combination Compared for Parasite Control in Feedlot Heifers". Thirty-eighth Livestock Research Roundup. Sec. 1, pp 21-27.

LANDBLOM, D.G., and J.L. NELSON. 1988. "Ovulation Induction Methods Compared Among Non-Cycling Beef Cows". Thirty-eighth Livestock Research Roundup. Sec. 1, pp 29-36.

NELSON, J.L. 1988. "Control of The Horn Flies in Beef Cattle". Thirty-eighth Livestock Research Roundup. Sec. 1, pp 37-42.

MANSKE, L.L., et al., 1988. "Cow and Calf Performance on Seasonlong and Twice Over Rotation Grazing Treatments in Western North Dakota". North Dakota Cow/Calf Conference. pp 5-17.

LANDBLOM, D.G., J.L. NELSON, and W.D. SLANGER. 1988. "Does Short Term Fall Creep Feeding Pay"? North Dakota Cow/Calf Conference. pp 18-23.

NELSON, J.L., L. MANSKE, D.G. LANDBLOM and P. SJURSEN. 1988. "Use of Embark<sup>R</sup> to Extend Crested Wheatgrass Pasture". North Dakota Cow/Calf Conference. pp 44-52.

LANDBLOM, D.G., J.L. NELSON, L. MANSKE and P. SJURSEN. 1988. "The Brood Cow Efficiency Study – A Progress Report". North Dakota Farm Research Bimonthly Bulletin. Vol. 46, No. 1. July-Aug., 1988.

LANDBLOM, D.G., J.L. NELSON, LADON JOHNSON and W.D. SLANGER. 1988. "A Comparison of Barley Distillers Dried Grain, Sunflower Oil Meal as Protein Supplements in Backgrounding Rations". North Dakota Farm Research Bimonthly Bulletin. Vol. 46, No. 2. Sept.-Oct., 1988.

LANDBLOM, D.G., J.L. NELSON, L. JOHNSON and W.D. SLANGER. 1988. "A Comparison of Barley Distillers Dried Grain, Sunflower Oilmeal, and Soybean Oil Meal as Protein Supplements in Backgrounding Rations". J. An. Sci. Midwest Section proceedings, Abstract No. 42, pp 108.

MANSKE, L.L., M.E. BIONDINI, C.Y. OSETO, J.E. STRUBLE, D.O. ERICKSON, P.J. SJURSEN, T.J. CONLON, D.G. LANDBLOM and D.R. KIRBY. 1988. "Complimentary Rotation Grazing System in Western North Dakota". 38<sup>th</sup> Livestock Research Roundup. Sec. II, pp 1-4.