

North Dakota State University

Dairy Program

*Welcome to the
Department of Animal & Range Sciences*

The dairy program at NDSU is in the Department of Animal and Range Sciences. The department is committed to educating undergraduate and graduate students by providing both specialized knowledge and educational breadth in animal agriculture, range science, veterinary technology and supporting disciplines. I encourage you to explore our Web site www.ag.ndsu.edu/ars/ and learn more about the department. If you would like additional information, please call us at (701) 231-7644.

Ken Odde

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Department Head

NDSU

North Dakota State University, Fargo, North Dakota

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NDSU is an equal opportunity institution

Teaching

Excellent opportunities exist for a variety of students – undergraduate and graduate.

Financial Support – 21 departmental scholarships

Faculty Research Emphasis – ruminant nutrition, nutrition physiology, reproductive physiology, biotechnology

Dairy Faculty Research Emphasis – nutrition, reproduction, dairy production

Applied Dairy Courses – Dairy cattle judging, dairy challenge

Extracurricular Activities – Bison Dairy Club, Saddle and Sirloin Club, Judging Club, Equine Club, Rodeo Club, Little International Livestock Competition, ARS Graduate Student Organization

Recent Dairy-related Awards:

1st place individual – 2003 National Linear Evaluation Contest, World Dairy Expo

1st place – 2003 Fort Worth Livestock Exposition Dairy Judging Contest

Gold Award – 2004 National Dairy Challenge

Platinum Award – Aggregate Team Member – 2004 National Dairy Challenge

1st place team –
Midwest Academic Quadrathlon:
1st – Lab practicum
1st – Oral presentation
1st – Written exam
2nd – Quiz bowl

Research: Applied and Basic Science

Opportunity exists for undergraduate research and laboratory experience.

Facilities

Dairy Teaching and Research Center on campus

State-of-the-art Animal Nutrition and Physiology Center

Laboratory of Growth and Lactation

Relevant Dairy Research

Crop and Byproduct Utilization

- Wet corn gluten feed
- Tempered barley
- Yeast additives
- Sunflower
- Canola
- Flax

Lactation Persistence

- Proliferation and differentiation of mammary cells
- Calf health and heifer development
- Nucleotide supplementation
- Colostrum management
- Compensatory growth

Other

- Conjugation of linoleic acid in milk
- Bedding management



Extension Service

Educational Opportunities

- Annual Dairy Cow College series
- Dairy Herd Improvement support
- Active dairy marketing clubs
- Summer farm yard socials

Staying in Touch

- Dairy Connection quarterly newsletter
- Western Dairy News
- Cyber support on dairy on dairy research and extension Web site – www.ag.ndsu.nodak.edu/aginfo/dairy

On-Farm Programs

- North Dakota Dairy Coalition state-wide effort for the retention and expansion of dairying (see green insert).
- Customized N.D. Dairy Diagnostic Advisory Team process to improve dairy productivity, farm profitability, family goal planning, and business success.
- Dairy Pollution Prevention Program (North Dakota Department of Agriculture) helping dairy producers improve water quality through waste management by providing financial, technical, and educational assistance.

After returning home from competition at the North American Intercollegiate Dairy Challenge competition, Patrick Remiger, NDSU Animal and Range Science student, described his experience as “an incredible opportunity for networking. Our teachers provided us the industry-based knowledge we needed to successfully compete with students from some of the most elite colleges in the nation.”