PROJECT NAME: Livestock Waste Education, Information and Assistance Program

PRINCIPLE INVESTIGATORS: Teresa Dvorak, Livestock Nutrient Management Specialist, DREC; Ron Wiederholt, Nutrient Management Specialist, CREC

REPORTING PERIOD: Annual report - October 1, 2006 to September 1, 2007

PROJECT PERIOD: March 1997 through November 2009

ANNUAL PROGRESS UPDATE:

Task 1  Develop and assemble educational programs that focus on the location, design, and management of livestock facilities, focusing on waste management to prevent impacts on water quality.

- A former publication was updated into the NDSU Extension bulletin (NM-1320) Resource Guide for Livestock Manure Management
- The bulletin (NM-1306) ND CAFO Operators Record Book was developed to assist CAFO operators with the records they need to keep in accordance with the EPA’s CAFO regulations.
- A workshop was organized to address the environmental issues facing swine production, Casselton Current Challenges and Future Strategies: Environmental Management in Swine Production

Task 2  Hold meetings, workshops, and tours to educate producers and those who advise and work with producers about livestock waste management to prevent impacts on water quality. Use mass media and newsletters to inform producers and the public about efforts to reduce impacts on water quality.

- Presentations have been given at the following locations:
  i. Management of Swine Facilities, Bottineau
  ii. 4-H water quality camp, Washburn
  iii. Beef Field Day, Carrington
  iv. Feedlot Tour, Jamestown
  v. Pork and Dairy Convention, Fargo
  vi. Feedlot School, Carrington
  vii. Feedlots of the Future, Fargo
  viii. CAFO Conference, Carrington, Dickinson
  ix. NC Animal Science Meetings, Sioux City, IA
  x. Pfizer Livestock Meeting, Carrington
  xi. Dickinson State University Capstone Class, Dickinson
  xii. Extension Livestock Inservice, Washburn
  xiii. Waste Management Day, Beach
  xiv. Livestock Update Meetings, Crosby, Powers Lake, Towner, Antler, Rugby
  xv. Nutrient Management Meetings, Linton and Wishek
  xvi. Livestock Management Strategies, Dickinson
  xvii. NDSU Dairy Management, Fargo
  xviii. DREC Field Day, Dickinson

- A training course for extension livestock agents was organized to educate them with hands-on evaluation of livestock operations. Agents toured three operations to evaluate them for pollution potential and determine the changes that needed to be made. Educational binders were developed for the agents to be used when working with producers.
- Press release on odor management practices at CAFO’s.
• Newsletter article in Dunn County Extension Update Newsletter on “Improving Water Quality”
• Radio interview on manure management broadcast in Dickinson area

Task 3  Develop and deliver educational materials and programs that focus on the utilization of livestock waste nutrients for crop production.

• Several presentations focused specifically on the utilization of livestock waste nutrients for crop production. Those presentations were made at the:
  i. Extension Livestock Inservice, Washburn
  ii. Extension All Agents Conference, Fargo
  iii. Advisory Board Meeting, Carrington
  iv. Walsh County Beef Day, Park River
  v. Lake Region Round-up, Devils Lake
  vi. AgVise Labs Conference, Fargo
  vii. Water Quality Conference, Savannah, GA
  viii. Northern Plains Sustainable Ag Conference, Aberdeen, SD
  ix. KFYR Ag Show, Bismarck
  x. Sustainable Ag Agent Training, Carrington
  xi. Composting Demonstration, Carrington
  xii. Soil and Water Society Conference, Carrington
  xiii. National Association of Ag Agents Conference, Grand Rapids, MI
 xiv. Dickinson State University Crop Production Class, Dickinson
  xv. DREC Field Day, Dickinson

Task 4  Provide technical and education support for 319 funded projects that have livestock waste management components.

• Watershed meeting, Wells County (2)
• Pipestem Watershed Meeting, Foster County
• Watershed Coordinators Conference, Aberdeen, SD
• Dickey County Watershed Meeting, Ellendale
• NDSA Feedlot Tour, western ND
• Mott County Ag Waste Tour, New England
• Roundtable meeting discussions were held with NRCS and SCD personnel in the following locations:
  o Mott, Hettinger, Bowman, Mercer, Center, Dickinson, Carson, Steele, Linton, McClusky, Turtle Lake, Bismarck, Mandan and Selfridge

Task 5  Provide one-on-one consultations to producers to evaluate specific options available to the individual for waste storage, handling, and utilization.

• In the current reporting period, contacts and site visits have been made with twenty-eight livestock producers. Visits include discussion on the Assessment Tool for New and Existing Animal Feeding Operations, manure utilization, consultation on management practices, containment systems and non point source regulations.