

AMM

Animal Manure Management



Heartland Water Quality Initiative

The Heartland Regional Water Quality Coordination Initiative coordinates research-based information, education and extension resources of the land-grant universities as related to water quality and the management of agricultural nonpoint source pollutants. Current priorities for the program are water quality issues related to animal manure management, nutrient and pesticide management, and citizen involvement in watershed management.

Animal Manure Management

The objectives of the Animal Manure Management issue team include:

1. Provide state regulatory agencies and federal partners within EPA Region 7 with access to science-based educational programs and related opportunities targeting issues associated with federal concentrated animal feeding operation (CAFO) regulations.
2. Expanding the understanding of public and private sector livestock industry advisors concerning federal and state CAFO regulations and the tools to implement those regulations.
3. Encourage regional access to educational resources from Kansas State University, Iowa State University, University of Missouri, and University of Nebraska, specific to animal manure management issues.

AMM Website

The Heartland Animal Manure Management website is a clearinghouse of resources for information on water quality and animal agriculture.

The website is organized into eight topic areas; Air Quality, Alternative Technologies, Animal Feeding, Land Application and Treatment, Manure Storage and Handling, Nutrient Management, Record Keeping, and Regulations.

Additional features include the AMM Bi-Monthly Newsletter and proceedings from recent AMM workshops.

An extensive search of recent extension publications, regulations, and agency resources in the region provide a concise collection of information in the eight topic areas. Subtopics can be found in each topic area to further describe the information available on the website.

www.heartlandwq.iastate.edu/manure

Upcoming Events:

CNMP Development Course
February 13-15, 2006, Kansas City, MO

Heartland AMM Agency Workshop
April 4-5, 2006, Nebraska City, NE

Website Resource Topics

Land Application and Treatment

- BMP's
- Equipment and Calibration
- Land Application
- Manure Nutrient Crediting

Nutrient Management

- Manure and Soil Sampling
- Nutrient Planning Software
- Phosphorus Index
- Phosphorus Management

Alternative Technologies

- Alternative Manure Technologies
- Vegetative Treatment System Resources
- VTS Guidance Document

Record Keeping

- Records Checklist
- Sample CNMP Forms

Manure Storage and Handling

- Confinement
- General Storage Issues
- Open Lot

Animal Feeding

- General Feeding Information
- Non-ruminant Species
- Ruminant Species

Regulations

- CAFO Fact Sheets
- EPA CAFO Regulations
- EPA CAFO Workshop
- Iowa Regulations
- Kansas Regulations
- Missouri Regulations
- Nebraska Regulations

Air Quality

- Air Quality Consent Agreement

Virtual Farm Tours

The Animal Manure Management website features a unique method of providing information on new manure treatment technologies. The tours combine photos, figures, and voice recordings to allow the viewer to visit the farm site without leaving their desk!

Virtual Farm Tours of two vegetative treatment technology systems are available to download and view. The first tours a vegetative treatment system at the Meat Animal Research Center (MARC) in Clay Center, Nebraska. The second tour currently available tours a soil infiltration and wetland vegetative treatment system located at the Iowa State University Beef Research Farm.

The screenshot shows the website interface for the Heartland Regional Water Coordination Initiative. The header includes the logo and navigation tabs for 'Heartland Regional Home', 'Community Involvement in Watershed Management', 'Animal Manure Management', and 'Nutrient & Pesticide Management'. A search bar is located in the top right. The main content area is titled 'Animal Manure Management' and features a sidebar with links to 'Homepage', 'News', 'Events', 'Issue Teams', 'Heartland Regional Water Quality Sites', 'Project Leadership', and 'Partners'. The central content displays details for an 'Alternative Technology Virtual Tour: Vegetative Treatment System at the Meat Animal Research Center (MARC), Clay Center, Nebraska'. It includes the title, authors (Bryan Woodbury, narrated by Jamie Benning), a summary of the system's purpose and effectiveness, a note about file viewing, the URL, and a resource link to the 'MARC Tour' (power point). A right sidebar lists various topics like 'Air Quality', 'Alternative Technologies', 'AMM Bi-Monthly Newsletter', 'Animal Feeding', 'Fall 2004 Workshop', 'Land Application and Treatment', 'Manure Storage', 'Nutrient Management', 'Record Keeping', 'Regulations', and 'Water Quality'. At the bottom, there is a map of the Heartland region and logos for EPA Region 7, K-State, Iowa State University, University of Missouri Columbia, and University of Nebraska Lincoln.