



Applying knowledge to improve water quality

# Heartland Regional Water Coordination Initiative

A Partnership of USDA CSREES  
& Land Grant Colleges and Universities

## Heartland Animal Manure Management Workshop

October 1-2, 2008

Stoney Creek Inn, St. Joseph Missouri

### Purpose

1. Facilitate information exchange between regional experts on animal manure management issues
2. Exchange experience on field implementation of water quality protection tools and monitoring
3. Get updates on the state of animal manure research in the region including emerging issues
4. Plan future direction of the regional manure management research-extension

### Agenda

#### Wednesday, October 1, 2008

- 10:30 a.m.      Pre workshop session of regulatory agency      Moderated by EPA R-7
- 12:00 p.m.      Lunch and Registration

### General Session

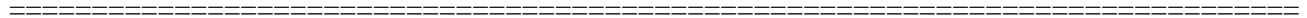
- |           |   |                  |        |
|-----------|---|------------------|--------|
| 1:00      | Welcome   | John Lawrence    | ISU    |
| 1:10.     | EPA CAFO Rule   | Allison Wiedeman | EPA HQ |
| 1:40      | State Rules: Updates, Where states are in implementing regulations?<br>Moderators: ( <i>John Lory, UM</i> ) |                  |        |
| 1:40      | Nebraska DEQ  | Tom Trehwitt     |        |
| 1:55      | Kansas KDHE   | Terry Medley     |        |
| 2:10      | Missouri DNR  | Darrick Steen    |        |
| 2:25      | Iowa DNR  | Gene Tinker      |        |
| 2:40      | EPA R7  | Donna Porter     |        |
| 2:55      | Discussion  |                  |        |
| 3:00 p.m. | Break – Refreshments served   |                  |        |

**Concurrent Sessions**

Tract 1 <i>Nutrient Planning</i> Moderator ( <i>Terry Medley</i> )		Tract 2 <i>Open Lot Runoff Management</i> Moderator ( <i>Tom Trehitt</i> )	
Time		Time	
3:15	A) How are states implementing NMPs? Possible survey of state NDEQ & NRCS Contact with report to group. Who is writing plans? Training/certification requirements, who is providing training, manure application vs. manure transfer sales. <i>(John Lawrence/Joe Lally, ISU)</i>	3:15	A) MARC research – soil impacts ( <i>Brian Woodbury, ARS/UNL</i> )
		3:45	B) Small open lot experiences ( <i>Mike Christian, KSU</i> <i>Chris Henry, UNL</i> )
4:00	B) Nutrient Economics: Storage, handling, transport and loss prevention <i>(John Lory/Ray Massey, UM)</i>	4:15	C) VTS research update: what are we learning? Field experience update and Design principles to improve performance <i>(Robert Burns, ISU)</i>
		4:45	D) EPA Perspective <i>(Steven Pollard, EPA R7)</i>
5:00	Discussion	5:00	Discussion

5:30 Adjourn meeting for the day

6 p.m. Dinner courtesy of Heartland Water Quality Project



**Wednesday, October 2, 2008**

8:00 a.m. **Concurrent Sessions**

Tract 1 Endocrine disruptors and antibiotics (Moderator John Lawrence, ISU)		Tract 2 Ground water monitoring (Moderator Joel DeRouchey, KSU)	
Time		Time	
8:00	Introduction to Antibiotic and EDC Use. Why are we concerned? Current use and practices; current review process for protecting human health and environment (Steve Ensley, ISU)	8:00	Research update: assessment tools for seepage (Kristin Baum, KSU)
8:30	EPA STAR Grant – Effect of Cattle Manure Handling and Management on Fate and Transport of Hormones in the Feedlot and the Field. (Dan Snow, UNL)	8:30	Compacted clay liner construction considerations to minimize seepage ( Robert Burns, ISU)
9:00	Fate, transport, and management options to reduce risk. (Jessica Davis, CSU)	9:00	NE experiences assessing risk below storage structure (David Miesbach, NDEQ)

9:30 am **Break (Moderator determines when)**

10:00 a.m. **Concurrent Sessions**

Tract 1 ARS Research update (Moderator, Renee Honcock, NRCS)		Tract 2 Nutrient Management Planning (Moderator, Donna Porter, EPA)	
Time		Time	
10:00	Manure management research activities within the region with water quality focus conducted by the ARS-USDA (John Gilley, USDA-ARS Lincoln, NE and Tom Moorman, USDA-ARS Ames, IA)	10:00	Regional NMP Heartland Narrative Model (Joe Lally, ISU)
		10:30	“NMP Report Card” Heartland approach for evaluating NMPs. (Joel DeRouchey, KSU)

11:00 a.m.

Wrap up of current project  
(*John Lawrence, ISU*)

Transition to new project  
(*Joel DeRouchey, KSU*)

Small group roundtable discussions evaluating the tools of past four years.

- Discussion question 1: What did we learn for past activities?
- Discussion question 2: What would you like to retain in future?
- Discussion question 3: What new activities should Heartland consider?

Report back from groups  
(*Moderator Joel DeRouchey, KSU*)

What did you like best from the past?  
What should we consider for the future?

Overview of Heartland's current plans  
(*Joel DeRouchey, KSU*)  
EPA Region 5/7 project introduction  
(*John Lawrence, ISU*)

12:00 p.m.

Departure