Considerations for the Use of Manure Irrigation Practices
Livestock and Poultry Environmental (LPE) Learning Center Webinar
June 15, 2018

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Biological Systems Engineering

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USDA-ARS, Research Engineer

Today
1: Ken Genskow
Background and Overview – WI Manure Irrigation and Workgroup

2: Becky Larson
Review of manure irrigation practices and issues

3: Tucker Burch
Summary of airborne pathogen drift study

4: Ken Genskow
Overview of workgroup recommendations

Closing/Questions/Discussion - All

Center Pivot

The archived presentation is available at:
http://articles.extension.org/pages/21819/chronological-webcast-archive
Issues identified by public

**Concerns**
- Public health risk from airborne pathogens and other contaminants
- Drift
- Odor and other quality of life concerns
- Surface water quality
- Groundwater
- Implementation and compliance

**Benefits**
- Timing of manure application
- Road safety and reduced road damage
- Farm management and economic benefits

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**WI Manure Irrigation Workgroup**

Convened Spring 2013

**Purpose:**
- Review issues and develop guidance on the practices of applying livestock manure or process wastewater through irrigation equipment

**Audience:**
- State and local agencies and officials
- Interested/concerned stakeholders
- Producers interested in the practices

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**Manure Irrigation Workgroup**

- Scope of review:
  - benefits,
  - concerns,
  - remaining questions
- Decisions: Consensus seeking
- Product: Guidance and recommendations for stakeholders and those interested in establishing policy—local and state officials.
- Workgroup had no formal authority to establish policy

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**Manure Irrigation Workgroup**

**Composition:**
- UW-Madison/Extension (3)
- USDA-ARS (1)
- USDA-NRCS (1)
- WDNR (2)
- WDATCP (1)
- WDHS (2)

- County Health Departments (2)
- Dairy Farmers (3)
- Professional agronomist (1)
- Nutrient applicator (1)
- Organic Farmer/concerned citizen (1)
- Wisconsin Land+Water Assoc (1)

**Public Forums May 2013**

**Workgroup meetings: July 2013 – September 2015 (16 meetings)**

Concurrent pathogen drift study by USDA-ARS & UW-Madison: 2013-2015
Workgroup Report

1. Introduction
2. Manure content, management, and current regulations
3. Considerations for manure irrigation practice
   a. Droplet drift
   b. Odor
   c. Water quality
   d. Air quality
   e. Airborne pathogens
   f. Timing
   g. Other management issues
4. Scenarios
5. Response & recommendations
   Appendices – including pathogen drift study expanded summary

http://fyi.uwex.edu/manureirrigation/