Livestock and Poultry Environmental Learning Community Webinar Series

Manuresheds: Advancing nutrient recycling in US agriculture

Livestock and Poultry Environmental Learning Community Educational Webinar Series
May 21, 2021

USDA's Long-Term Agroecosystem Research Network (LTAR)

The archived presentation is available at:
https://lpelc.org/archived-webinars/
Enter the Manureshed

Weighing the theoretical and practical dimensions of connecting livestock and crop production

Vision

Optimized manureshed management within regions, within industries

With an eye toward nationwide optimization!

Action research cycle

Objective: Optimize regional-scale or industry-scale manureshed

1. Identify hotspots of surplus manure & productive lands that could use it (source + sinks = manureshed)
2. Explore management in the manureshed
3. Evaluate opportunities and barriers for coordinated recycling
4. Assess trade-offs of recycling
5. Ensure engagement and informational feedbacks for action on the ground

The archived presentation is available at: https://lpelc.org/archived-webinars/
Analyzing gaps and catalyzing innovation

- Inventories and geospatial patterns
- Social networks & community concerns
- Affordable technologies
  - Processing, Storage, Transport, Manure
  - Value-Added, Entrepreneurs
- Economic incentivization
- Identification of emerging threats

Optimization (Visioning, Modeling)

Diversity of expertise focused on common goal of advancing the manureshed vision

Colton Flynn: Geospatial tools

1. Identify hotspots of surplus manure & productive lands that could use it (source + sinks = manureshed)
2. Explore management in the manureshed
3. Evaluate opportunities and barriers for coordinated recycling
4. Assess trade-offs of recycling
5. Ensure engagement and informational feedbacks for action on the ground

The archived presentation is available at: https://lpelc.org/archived-webinars/
1. Identify hotspots of surplus manure & productive lands that could use it (source + sinks = manureshed)

2. Explore management in the manureshed

3. Evaluate opportunities and barriers for coordinated recycling

4. Assess trade-offs of recycling

5. Ensure engagement and informational feedbacks for action on the ground

Gwendwr Meredith: Social Science Tools

Robb Meinen: Industry-Scale Manureshed

Enjoy!

The archived presentation is available at: https://lpelc.org/archived-webinars/