


Spray Dispersal Systems

Spray System Operation and Maintenance Considerations

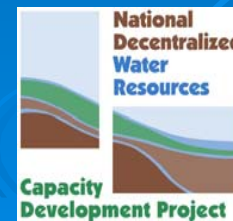
Bruce Lesikar
Texas Cooperative Extension

University Curriculum Development
for Decentralized Wastewater
Management



NDWRCDP Disclaimer

This work was supported by the National Decentralized Water Resources Capacity Development Project (NDWRCDP) with funding provided by the U.S. Environmental Protection Agency through a Cooperative Agreement (EPA No. CR827881-01-0) with Washington University in St. Louis. These materials have not been reviewed by the U.S. Environmental Protection Agency. These materials have been reviewed by representatives of the NDWRCDP. The contents of these materials do not necessarily reflect the views and policies of the NDWRCDP, Washington University, or the U.S. Environmental Protection Agency, nor does the mention of trade names or commercial products constitute their endorsement or recommendation for use.



CIDWT/University Disclaimer

These materials are the collective effort of individuals from academic, regulatory, and private sectors of the onsite/decentralized wastewater industry. These materials have been peer-reviewed and represent the current state of knowledge/science in this field. They were developed through a series of writing and review meetings with the goal of formulating a consensus on the materials presented. These materials do not necessarily reflect the views and policies of University of Arkansas, and/or the Consortium of Institutes for Decentralized Wastewater Treatment (CIDWT). The mention of trade names or commercial products does not constitute an endorsement or recommendation for use from these individuals or entities, nor does it constitute criticism for similar ones not mentioned.



Citation

Lesikar, B.J., V. Weynand, and M. Lilie 2005. Spray Dispersal: Operation and Maintenance Considerations - PowerPoint Presentation. *in* (M.A. Gross and N.E. Deal, eds.) University Curriculum Development for Decentralized Wastewater Management. National Decentralized Water Resources Capacity Development Project. University of Arkansas, Fayetteville, AR.

Operation Considerations

- Timing of application
- Vegetation management
- Record keeping

Application Timing

- Irrigation vs. Dispersal
- Day vs night spray



Vegetation Management

- Type of vegetation
 - Grasses
 - Trees
- Vegetation harvesting
- Cool season grasses

Record Keeping

- Application rates



Maintenance Considerations

- Pump tank
- Water level sensors
- Disinfection system
- Filters
- Spray fields
- Respond to alarms

Pump Tank Maintenance

- Solids on bottom
- Tank integrity
- Riser & lid integrity



Water Level Sensors

- Functioning



Disinfection System

- Functioning



Filters



Spray Fields

- Supply lines
- Air relief
- Distribution heads
- Wet areas



Distribution Heads

- Distribution pattern
- Operating pressure
- Head protection



Alarms

- Response time
- Types of faults



Summary

