



Manure Sampling Considerations in Different Animal Production Systems

November 16, 2018

2:30 pm (eastern), 1:30 pm (central), 12:30 pm (mountain), 11:30 am (pacific)

Manure characteristics vary by animal species and age and time of sampling. Farm management practices, i.e., manure handling and storage also influence manure characteristics. Sampling practices need to consider all these sources of variability to ensure manure land application rates follow agronomic recommendations. The guest speakers in this webinar will each address manure sampling challenges in a different species and recommendations to reduce sampling error. *An application for continuing education credit for Certified Crop Advisors (CCAs) and members of the American Registry of Professional Animal Scientists (ARPAS) will be submitted.*

Karl VanDevender is a professional engineer in Arkansas and a professor in the University of Arkansas' Department of Biological and Agricultural Engineering. Since 1992, he has held an extension appointment with a focus on livestock and poultry manure management to address environmental and production concerns. Dr. VanDevender holds a B.S. and M.S. in Agricultural Engineering from Mississippi State University and a Ph.D. from the University of Arkansas.

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Mark Rice is the Director of the Animal and Poultry Waste Management Center at North Carolina State University, where he coordinates with faculty, staff, and external partners to carry out the mission and goals of the Center through research and extension programs. Mark has served as an Extension Specialist in the Department of Biological and Agricultural Engineering for over 25 years primarily focused on projects related to alternative animal waste management system and nutrient recovery.

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Aaron Nygren is an Extension Educator with Nebraska Extension. His focus is on crops and water for the counties of Colfax, Cuming, and Stanton. Aaron has helped the Animal Manure Management team teach Land Application Training for Nebraska livestock operations for over 10 years.

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Dr. Mahmoud Sharara is an assistant professor and extension specialist at North Carolina State University (NCSU), Department of Biological and Agricultural Engineering (BAE). His specialty is animal waste management and processing into value-added products. He received his M.S. and Ph.D. in Agricultural and Biological Engineering from the University of Arkansas. Before joining NCSU faculty in August this year, he was a postdoctoral research associate at the University of Wisconsin-Madison. Dr. Sharara will serve as our moderator for this webinar.

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How Do I Participate?

On the day of the webinar, go to www.extension.org/58813 to download the speaker's power point presentations and connect to the virtual meeting room. First time viewers should also follow the steps at: www.extension.org/8924.

For More Information

- Waste sample collection and analysis content.ces.ncsu.edu/waste-analysis
- Liquid Manure Solids Management FSA1041 uaex.edu/publications/PDF/FSA-1041.pdf
- Soil Phosphorus: Management and Recommendations FSA1029 uaex.edu/publications/pdf/FSA-1029.pdf
- Manure Testing for Nutrient Content extensionpublications.unl.edu/assets/pdf/g1450.pdf
- Nebraska Manure Website: manure.unl.edu

The LPE Learning Center is a project dedicated to the vision that individuals involved in public policy issues, animal production, and delivery of technical services for confined animal systems should have on-demand access to the nation's best science-based resources. See our website at: lpec.org.