

NUTRIENT MANAGEMENT PLANNING COURSE

Session I

Missouri Cattlemen's Assoc., 2306 Bluff Creek Dr., Columbia, MO

10:00 AM Tuesday March 10, 2009 to 2:30 PM Thursday March 12, 2009

Time	Session #	Title, Speaker, Resources
Tuesday March 10, 2009		1. Issues Facing Animal Agriculture
9:30 – 10:00 AM		Registration and Sign-in
10:00 – 10:15		Introductions
10:15 – 10:45	1 A	NRCS Nutrient Policy and Standards. Glenn Davis, NRCS, 30m.
10:45 – 11:15	1 B	Water Quality Regulatory Initiatives. John Lory, UMC 30m.
11:15 – 12:00	1 C	DNR and Local Regulations: Setbacks and Animal Numbers. Troy Chockley, NRCS, 45m.
12:00 – 1:00 PM		Lunch (on your own)
1:00 – 1:15	1 D	Trends in Missouri Animal Agriculture. John Lory, UMC, 15m
1:15 – 2:15	1 E	Phosphorus loss from agricultural systems and its impact on water quality. John Lory, UMC, 60m.
2:15 – 3:15	1 F	Nutrient criteria and nutrient dynamics in lakes. Dan Obrecht, UMC, 60 m.
3:15 – 3:30		Break
3:30 – 4:00	1 G	Pathogens and water quality, the role of animal agriculture. Charles Andy Carson, UMC, 30m.
4:00 – 5:00	1 H	The role of Midwest Agriculture in Gulf of Mexico Hypoxia. Peter Scharf, UMC, 60m.
5:00– 5:30	1 I	Emissions from animal production systems. Joe Zulovich, UMC, 30m.
5:30 PM		Adjourn

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Time	Session #	Title, Speaker, Resources
Wednesday March 11, 2009		2. Farm Inventory
8:00 – 9:30 AM	2 A	Soil as a Nutrient Resource and Growing Medium for Crops. Peter Motavalli, 90m.
9:30 – 10:00	2 B	Soil Sampling Strategies. John Lory, UMC, 30m.
10:00 – 10:15		Break
10:15 – 11:15	2 C	Manure Management Systems: Manure Production and Characteristics. Joe Zulovich, UMC 60m.
11:15 – 12:00	2 D	Manure sampling, testing and interpretation. John Lory, UMC, 45m.
12:00 – 1:00 PM		Lunch (on your own)
		3. Integrating Data into a Plan
1:00 – 2:30 PM	3 A	Fertilizer need and strategies for row crops. Peter Scharf, UMC, 90m.
2:30 – 2:45		Break
2:45– 4:00	3 C	Fertilizer need and strategies for forages. R. Kallenbach, UMC, 75m.
4:00– 5:30	3 D	Calculating nutrient availability and land requirements for manure application to crops and forages. John Lory, UMC and Troy Chockley, NRCS, 90m.
5:30 PM		Adjourn

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Time	Session #	Title, Speaker, Resources
Thursday March 12, 2009		4. Formulating Solutions
8:00 – 8:30 AM	4 A	Whole farm nutrient balance assessment John Lory, UMC, 30m.
8:30 – 9:00	4B	Cropping systems for manure management. John Lory, UMC, 30m
9:00 – 9:45	4 C	Using feed rations to affect nutrient content of manure. Marcia Shannon, UMC, 45m.
9:45– 10:15	4 D	Value of manure as a fertilizer. Ray Massey, UMC, 30m.
10:15 – 10:30		Break
10:30 – 11:30	4 E	Economics and time requirements of manure management systems. Ray Massey, UMC, 30m.
11:30 – 12:00	4 F	Nitrogen vs. phosphorus based manure application strategies. John Lory, UMC, 60m.
12:00 –12:30 PM	4 G	Phosphorus and leaching indexes. Glenn Davis, NRCS, 30m.
12:30 – 1:00		Wrap up and prepare for field session
1:00		Adjourn

For more information contact John Lory, University of Missouri (573-884-7815; LoryJ@missouri.edu) or Glenn Davis, NRCS (573-876-0908)

To register contact Shane Ferguson (573-884-6311; FergusonSS@missouri.edu). Pre-registration is required.

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