



MAKING THE RIGHT MOVES

DUR CHALLENGES, DUR IMAGE, DUR FUTURE



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Integrating Technologies on the Farm for Soil Health and Nutrient Management



Fertilizer Industry Round Table



Integrating Technologies on the Farm for Soil Health & Nutrient Management



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nutrient stewardship

It's about accountability, and profitability

It's about Managing nutrients as a system, not an application.

It's about losing less nutrients and utilizing more.



It's about Minimizing environmental impact by Optimizing yield and Maximizing N utilization.



NITROGEN UPTAKE IN CORN



NITROGEN as a MANAGEMENT SYSTEM

- 50% Fall or early Spring w/N-Serve (knifed)
- > 25% Preplant broadcast
- > 25% (+/-) post-emergence





A Tool to Estimate the Where, What and How Much of N Management





Minimize Environmental Impact Optimize Harvest Yield Maximize Input Utilization



- A tool to use with N Management Systems
- Monitor N behavior at a point in the field
- Decision aid with late-season N Mgt.
- Early detection of high residual N (cover crops?)











Importance of a systemic approach to crop nutrient

- Are we putting back the fertility we are removing and being good stewards of the soil and helping growers keep the bins and banks full.
- Are we using the Data we have at hand to make the best farming decisions for each farm and field.

 Growers can't always control crop growing conditions, crop input pricing, or grain pricing but they can control how they invest their fertility dollars.

Combined Removal (Corn/Soybeans) Based on II Ag Handbook

YIELD (Bu/A)	150		200		250		300	
	DAP	Pot.	DAP	Pot.	DAP	Pot.	DAP	Pot.
50	237	178	283	202	330	225	378	248
60	254	200	300	223	348	247	396	270
70	274	222	320	245	367	268	414	292
80	293	243	333	266	387	290	434	313

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7 "Fail-Safe" Steps for Maximizing Fertilizer Returns with Limited Resources

- 1. Soil test to determine need
- 2. Lime adequately
- 3. Grow best crop possible
- 4. Use "right" rate
- 5. Take nutrient credits
- 6. Maximize efficiency /avoid losses
- 7. Avoid unnecessary additions



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