CONSULTANTS AND SEED PRESCRIPTIONS
How Do We Fit In?

Shannon Gomes, CPSS, CCA
Cedar Basin Crop Consulting
Soil Investigative Services
Cedar Basin method for hybrid selection:

- Independent trials
- Look for hybrids planted in multi-geographic areas
- Select top hybrids in at least 2 zones
HYBRID SELECTION CRITERIA
Dr. Joe Lauer, University of Wisconsin
PRESCRIPTION MAP FOR HYBRID AND POPULATION RECOMMENDATION

What base map?

- Yield map
- Soil fertility map
- Soil map
- Electrical conductivity map
Yield Map

2009 Corn Yield Map

Clipped Soil intro 017
2009 Corn Yields East
- 0 - 50
- 50 - 75
- 75 - 100
- 100 - 125
- 125 - 150
- 150 - 175
- 175 - 200
- 200 - 225
- 225 - 400

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Electro-Magnetic Mapping
Why the need for soil conductivity mapping?

- Inherent inaccuracies of the published soil survey.
- Most soil surveys were conducted long before precision farming and gps technologies were available.
- The smallest area that was mapped in Iowa was 2.5 acres, and anything less was considered an “inclusion” or other soil.
- A soil mapping unit can have up to 40% other soils or, in other words, 60% accuracy.
- Human error in judging soil properties in the field.
- Now we have technologies that can take a soil measurement every second accompanied with an accurate gps position giving us a soil map that is almost 200 times more accurate.