

CONSULTANTS AND SEED PRESCRIPTIONS

How Do WE FIT IN?





Shannon Gomes, CPSS, CCA Cedar Basin Crop Consulting Soil Investigative Services

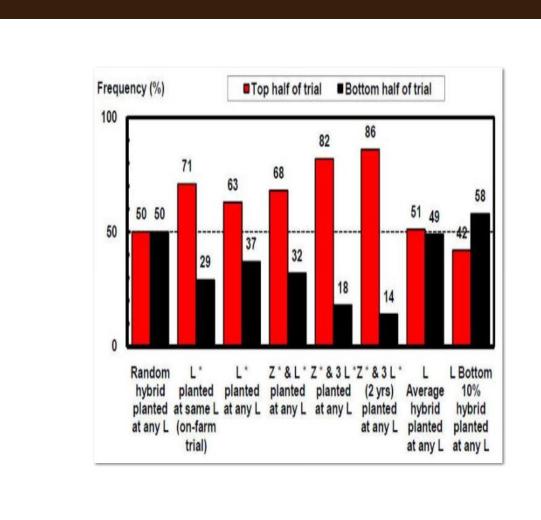


Cedar Basin method for hybrid selection:

- > Independent trials
- Look for hybrids planted in multigeographic areas
- > Select top hybrids in at least 2 zones

HYBRID SELECTION CRITERIA

Dr. Joe Lauer, University of Wisconsin

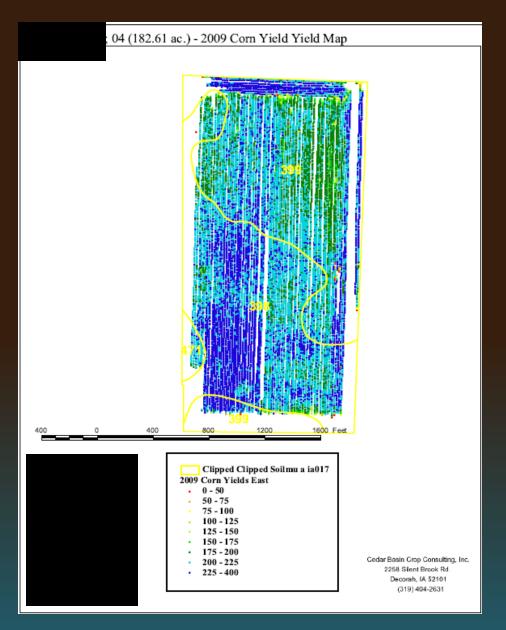


PRESCRIPTION MAP FOR HYBRID AND POPULATION RECOMMENDATION

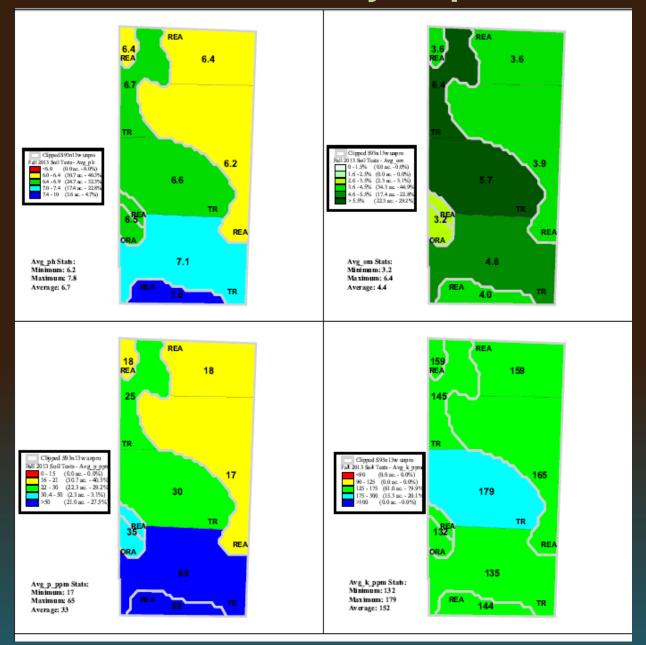
What base map?

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

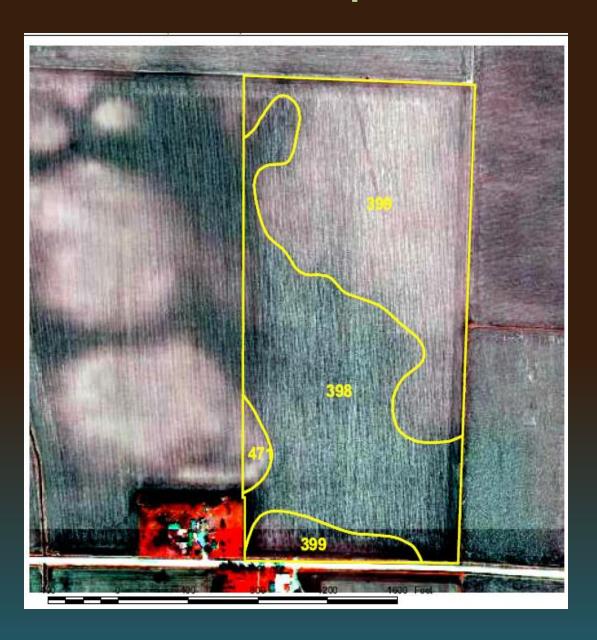
Yield Map



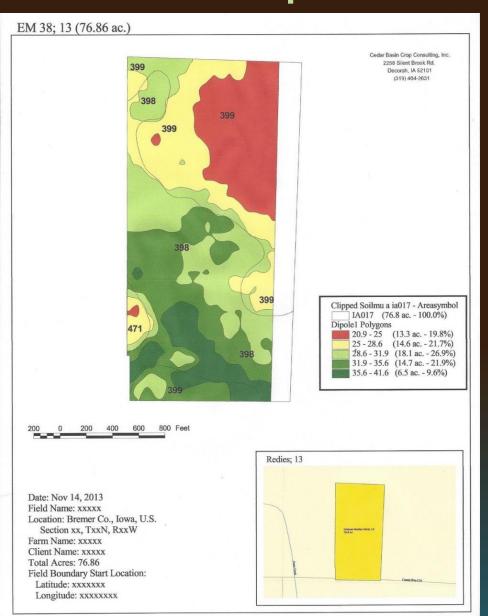
Soil Fertility Map



Soil Map

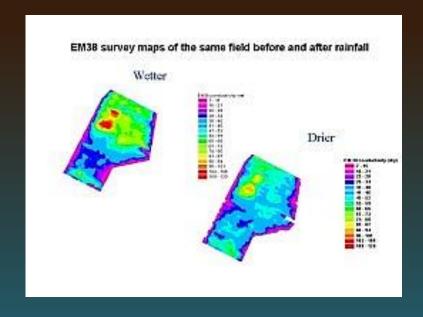


EC Map



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 lowa 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.