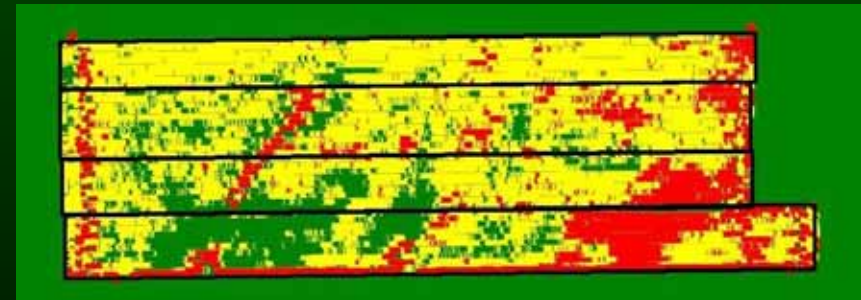
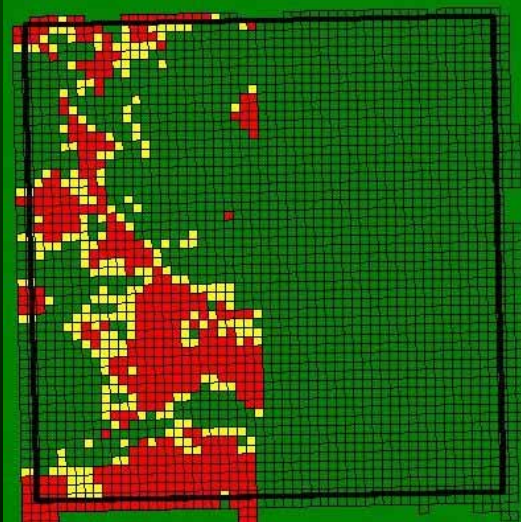


# Spatially Managed Farms

John Nowatzki

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01/31/08

# Introduction

- For each Farm
  - ◆ Yield by zone
  - ◆ Fertilizer by zone
- What Have We Learned?
- Questions/Comments

# What Have We Learned?

- Preparing Field Zones
- How to Manage Each Zone
- Applying Variable Rate Fertilizer
- Evaluating Effects

# Preparing Field Zones

- Past Yield Maps
- Landscape, Topography and Soil Type
- NDVI from Satellite Imagery
- Electrical Conductivity and Salinity
- Soil Test Analyses
- Experience and Field History

# How to Manage Zones

- GIS Software
  - ◆ Software Experience
  - ◆ File Compatibility
- Higher Producing Areas
- Lower Producing Areas
- Salinity Problem Areas

# Applying Variable Rate

- Needed Equipment
  - ◆ GPS Equipment
  - ◆ Differential Correction
  - ◆ Controller
  - ◆ Variable Controls on Applicator or Seeder
    - ★ Ability to Change Rates

# Evaluating Variable Rate

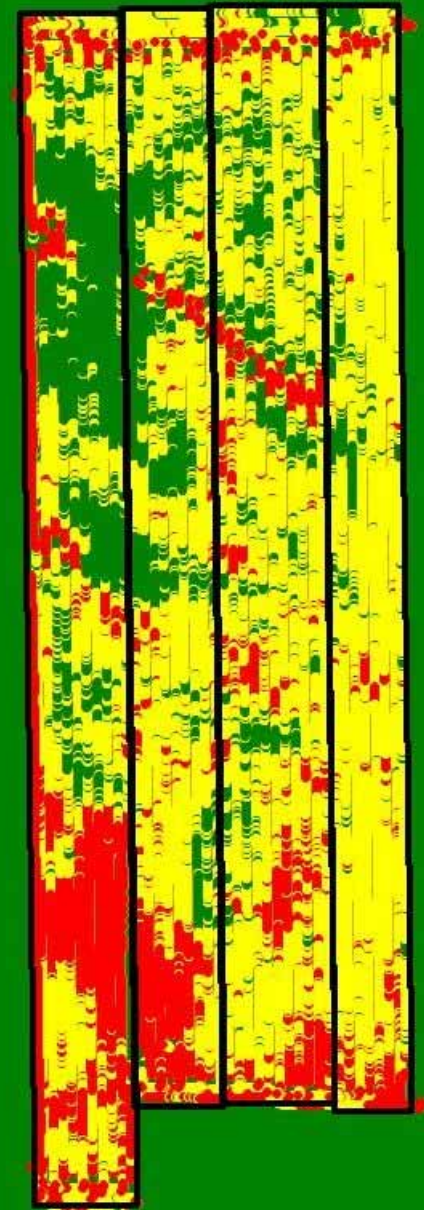
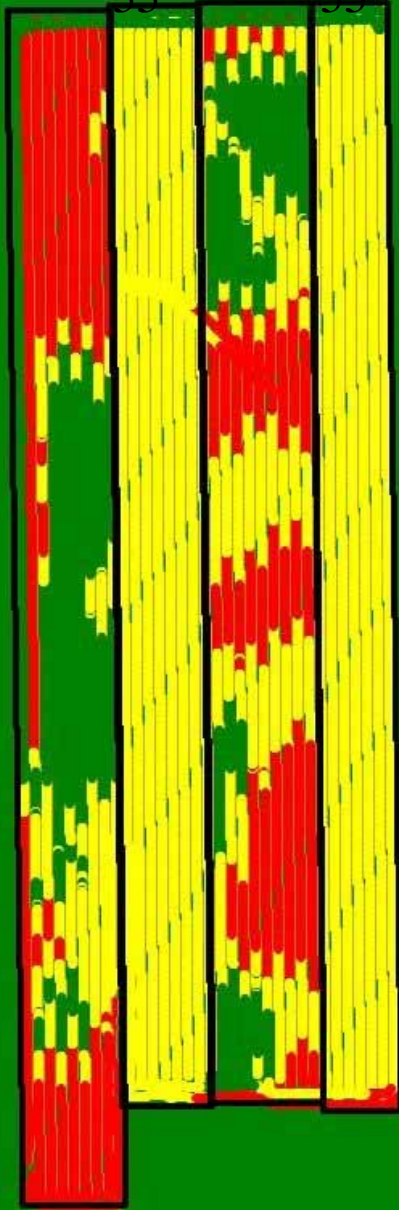
- Check Sections
- Yield differences
- Profit

Zook

26.5 55 24.5 55

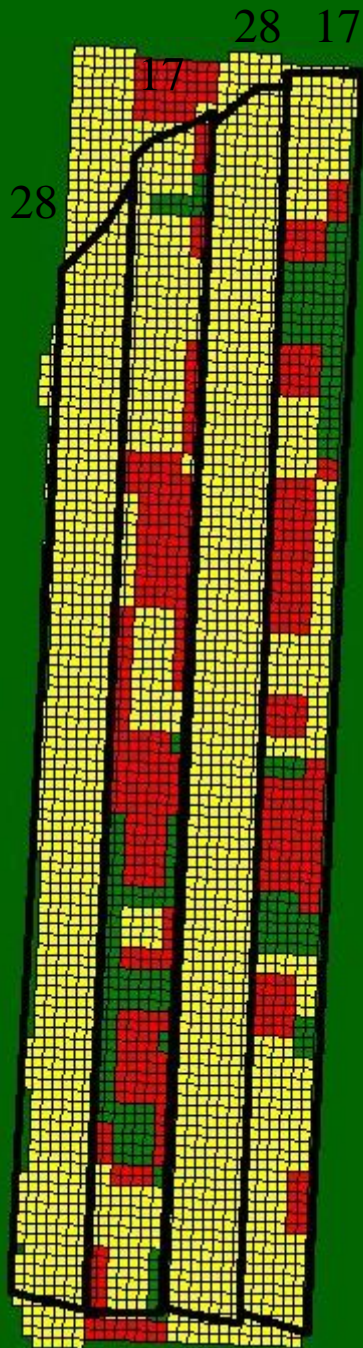
36.5 37 36.5 36

Urea

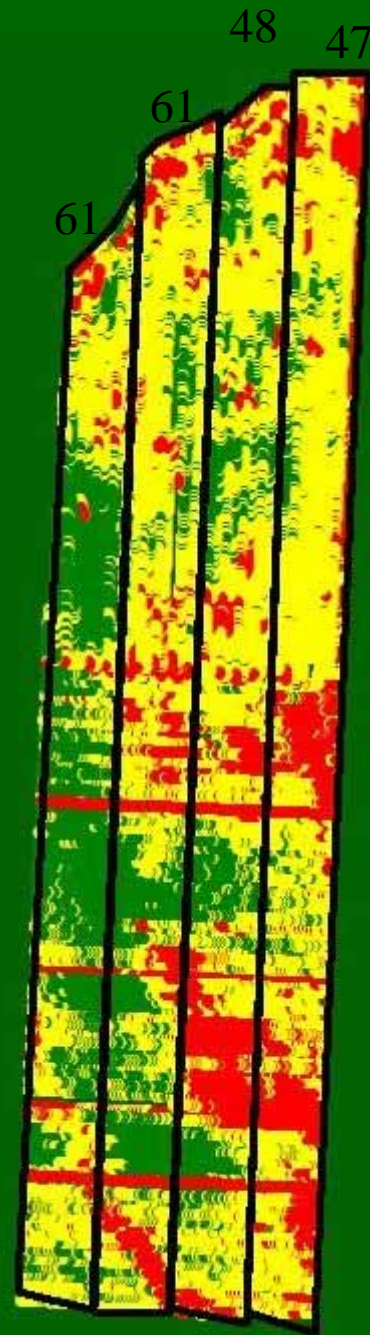
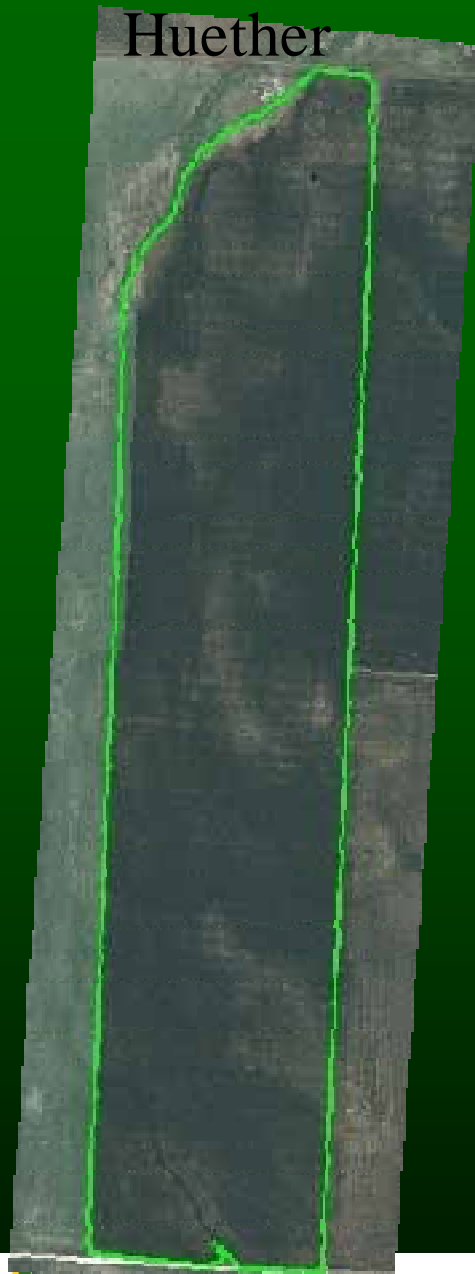


Wheat  
Yield

$NH_3$



Huether



Wheat  
Yield



$\text{NH}_3$

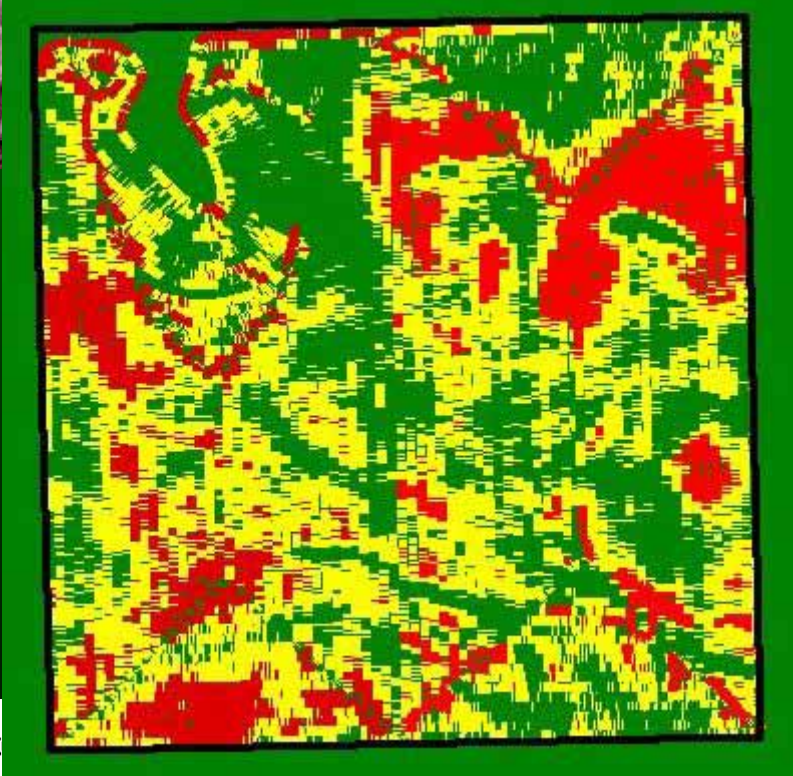
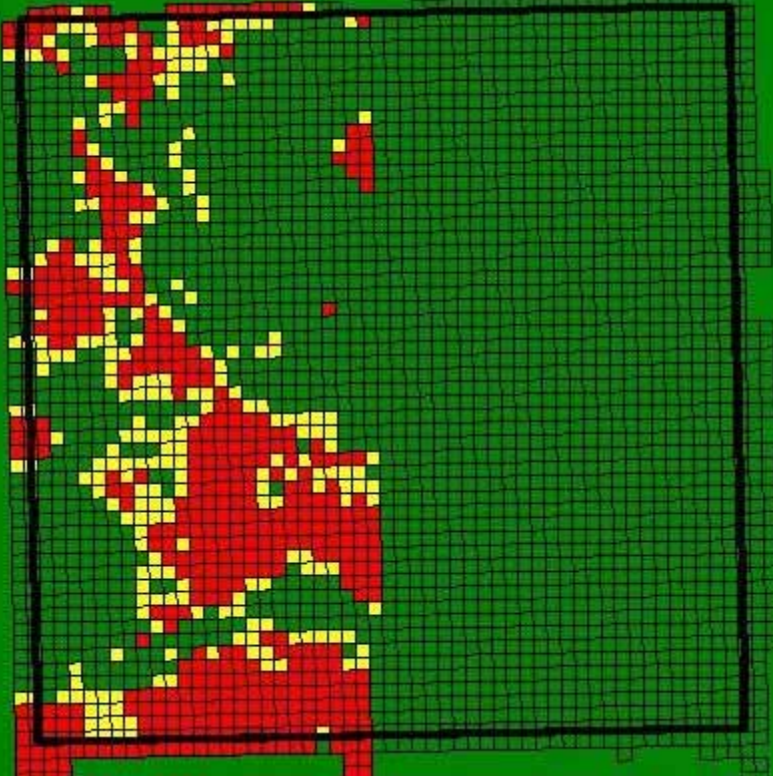
66

83

Wheat Yield

36

38



# What Have We Learned?

- Know Your Land
- Zone Boundaries
- Soil Test
- Equipment Issues
- Weather
- High and Low Producing Areas?

# More Information

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