

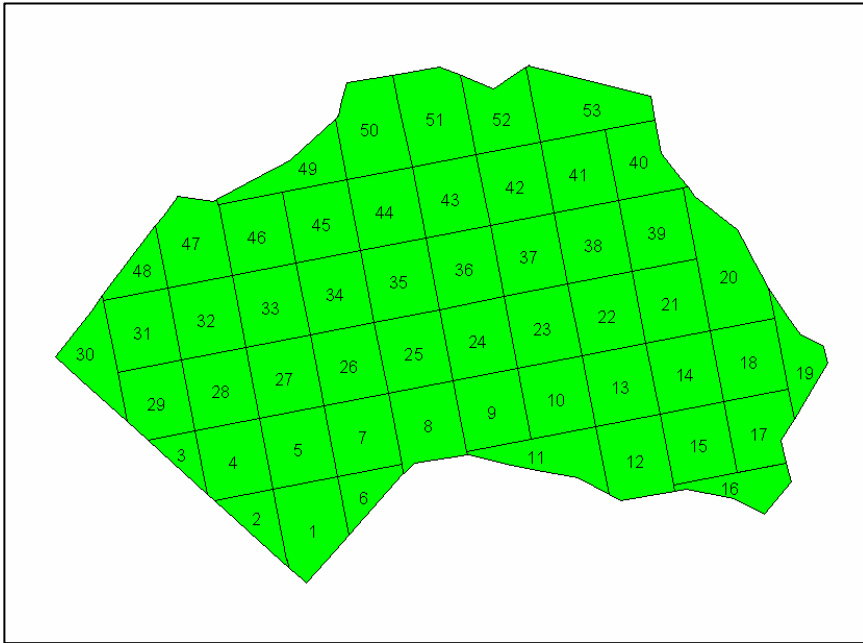
Optimizing Cotton Production



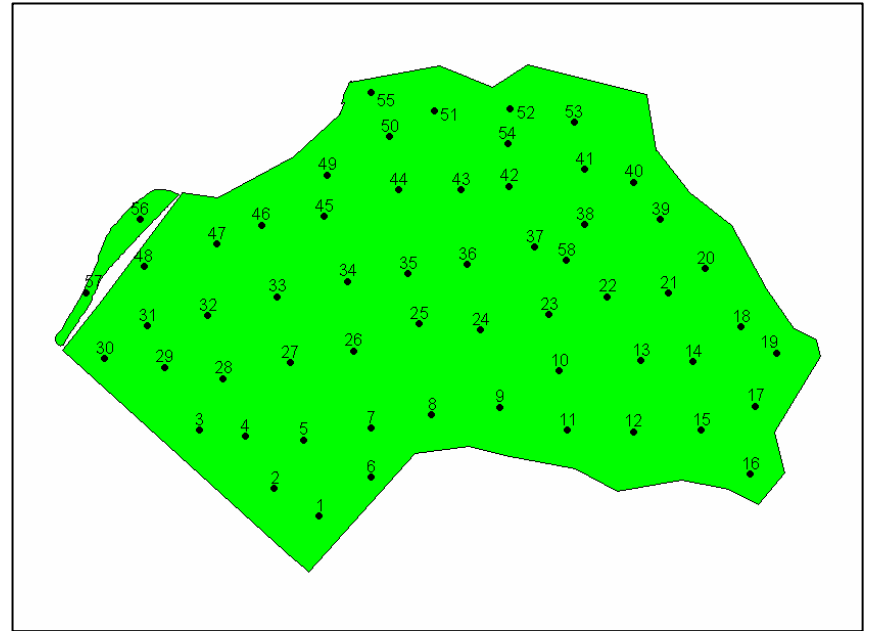
185 Acres → 32 Modules → 3.2 Bales/Ac

Soil Sampling

Grids

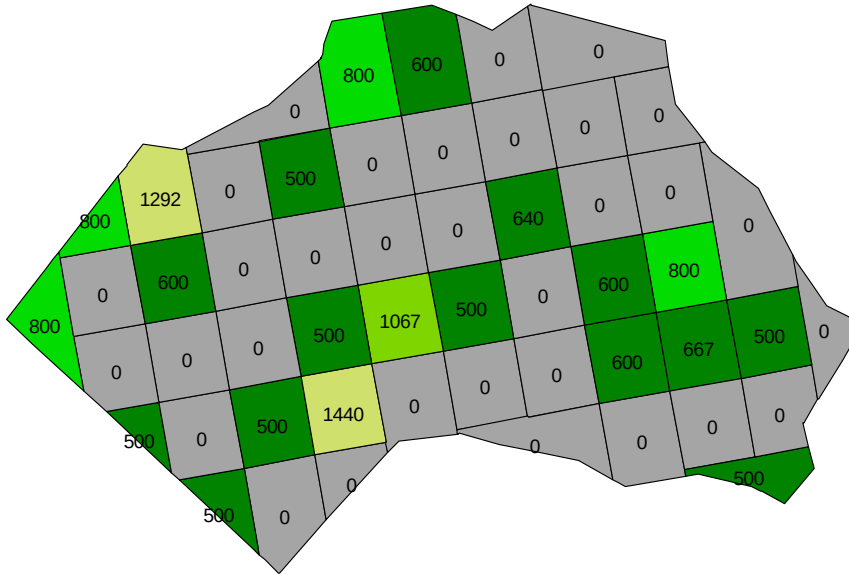


Grid Point Sampling



Lime Application

1999



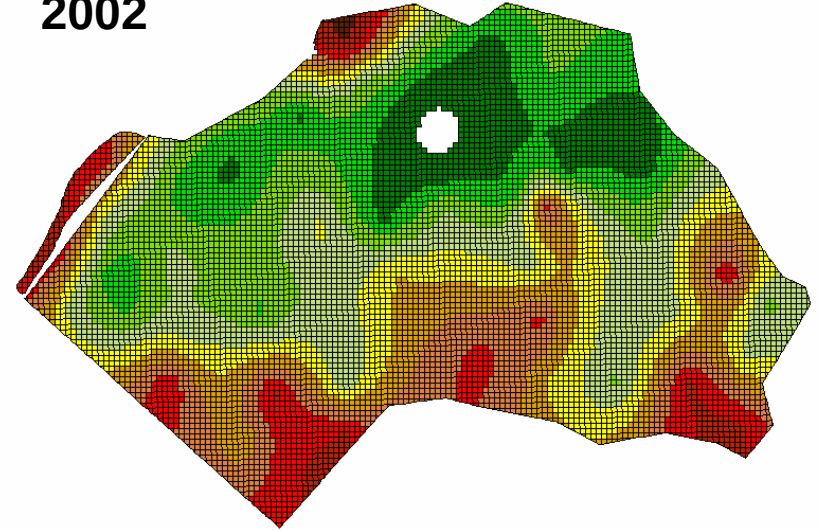
Target pH 6.0

Conventional Lime = 0 tons

VRT Lime = 15 Tons



2002



Target pH 6.5

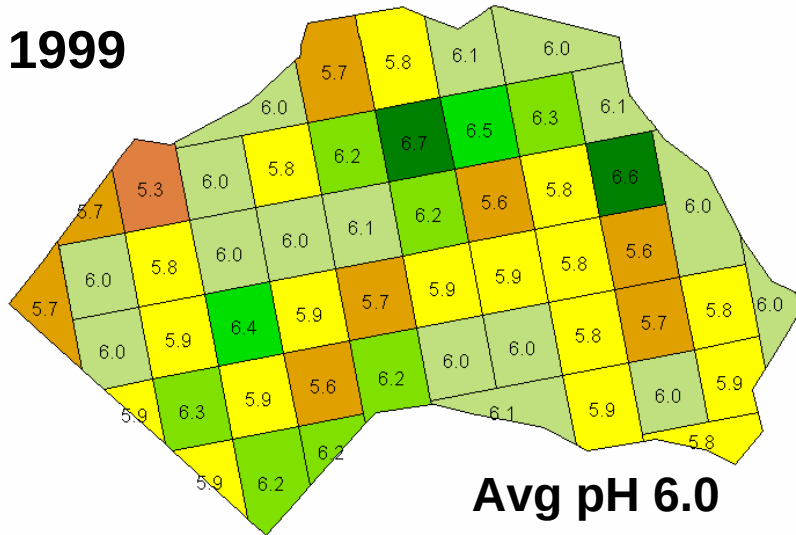
Conventional Lime = 99 Tons \$2277

VRT Lime = 85 Tons \$1955

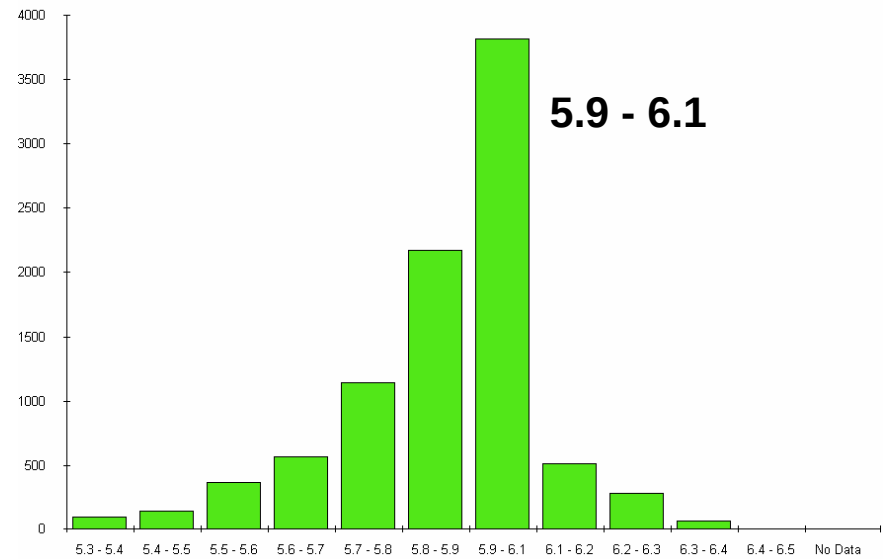
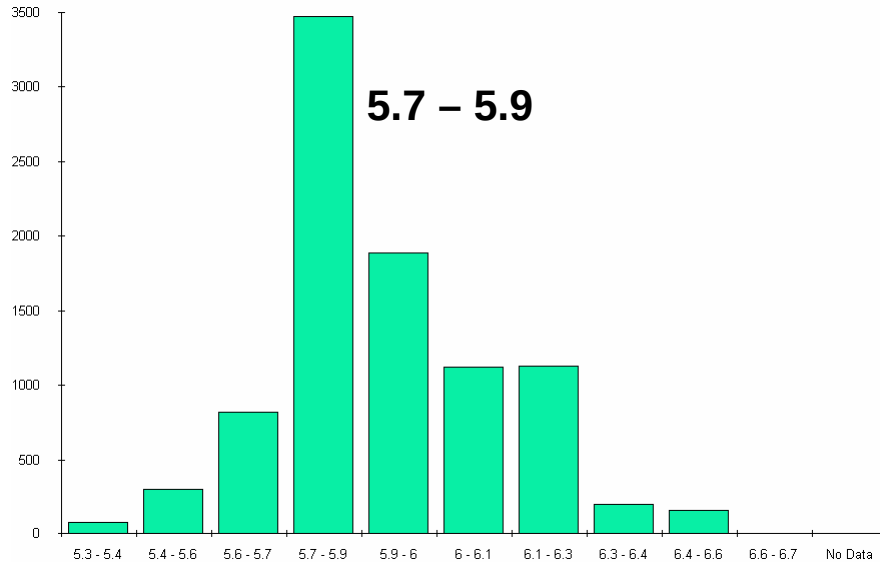
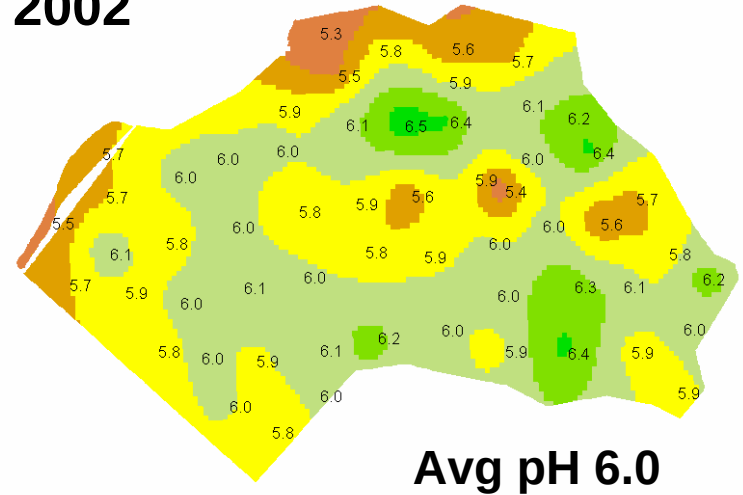
Savings \$322

pH Maps

1999

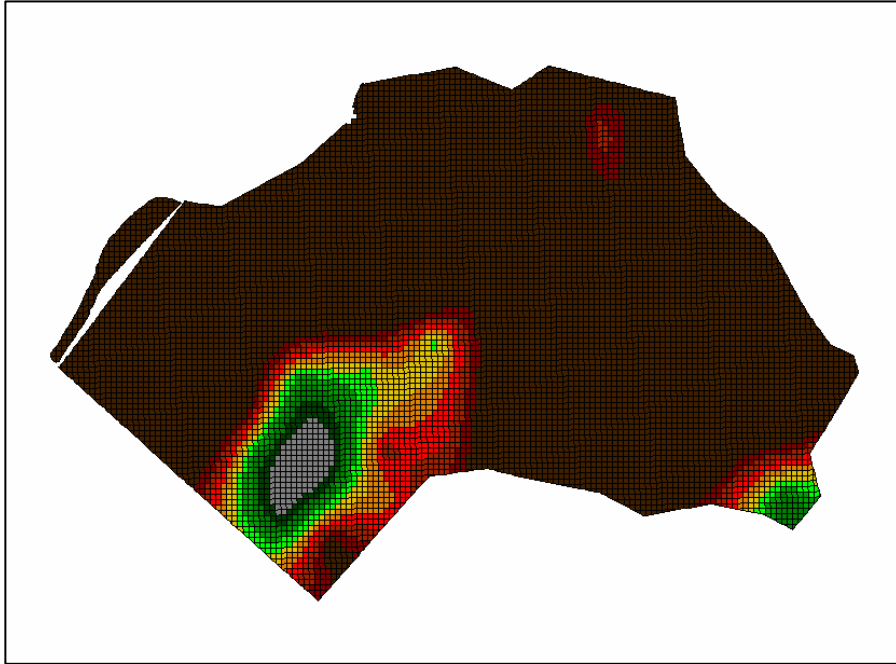


2002

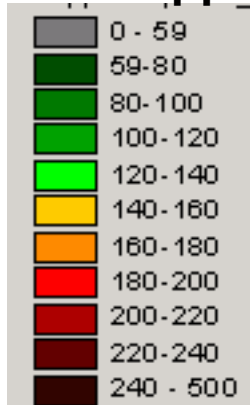


Potash Application

2002

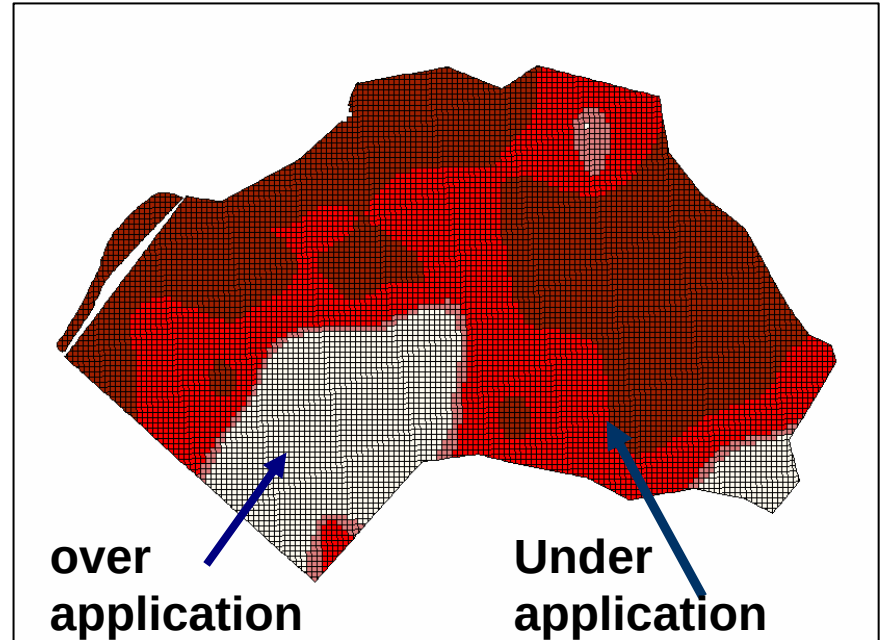


Potash Application lbs/Ac



17.7 Tons VRT

13 Tons Conv



Straight rate 225 lbs/Ac

VRT Application

Min Rate 60 lbs

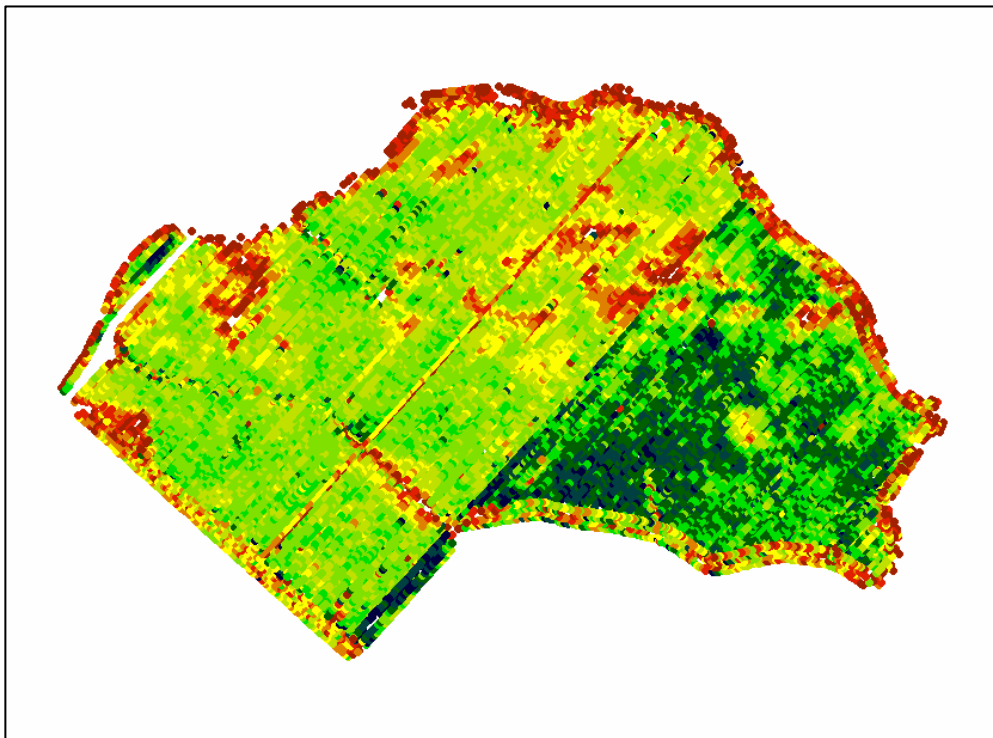
Max Rate 470 lbs

Avg Rate 330 lbs

Yield Monitoring

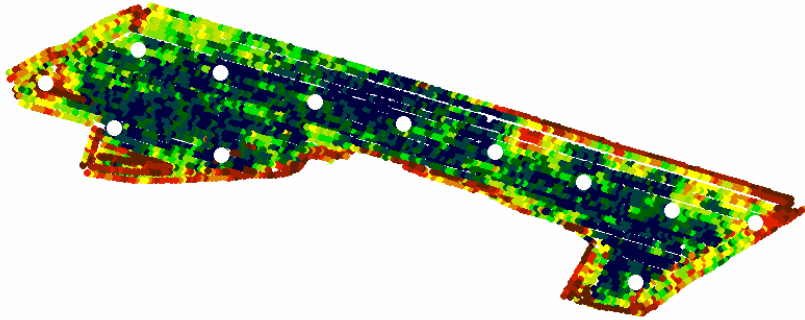


2001 Cotton Yield

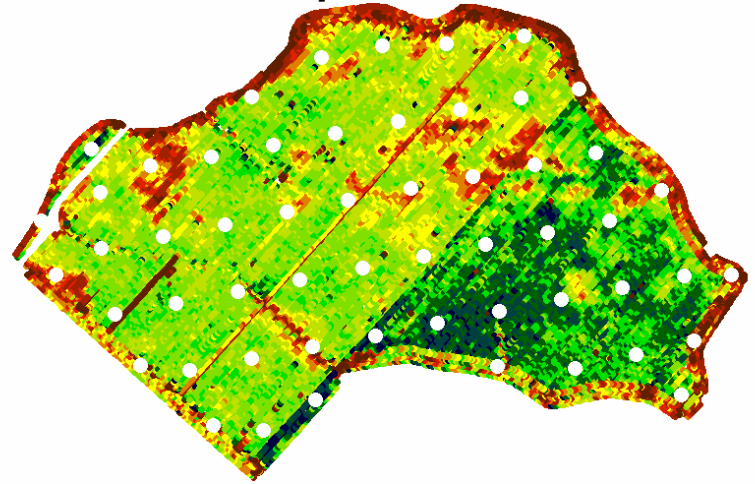


Using the Information

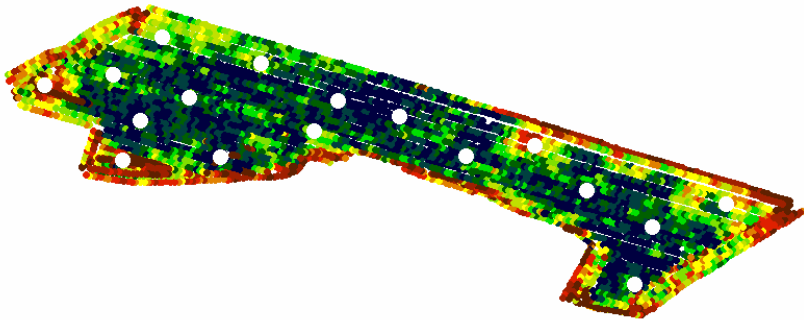
Initial Grid Sample



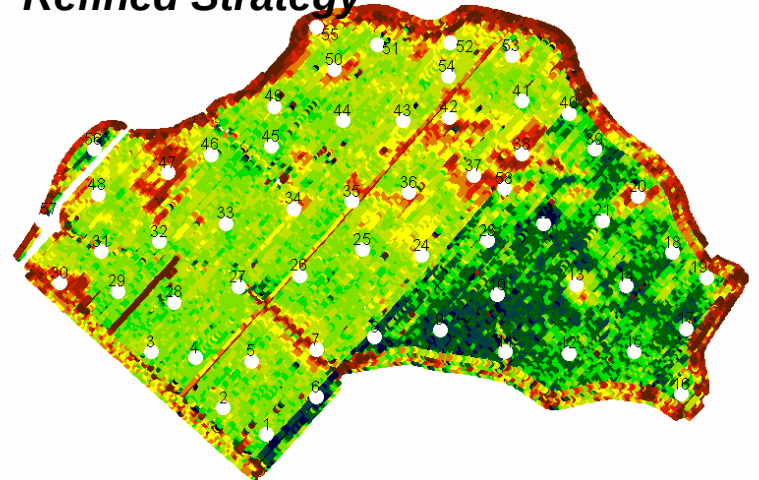
Initial Grid Sample



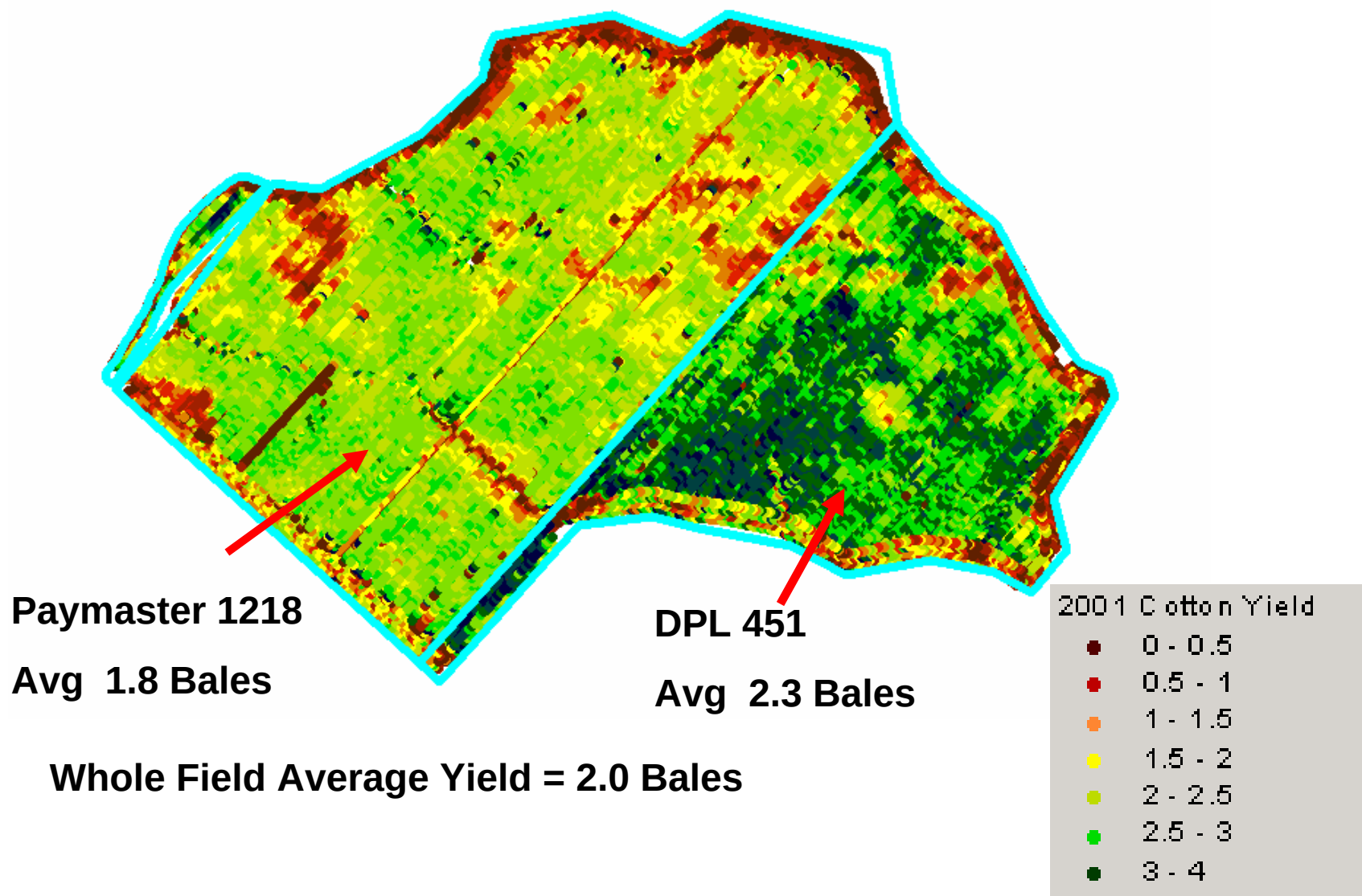
Refined Strategy



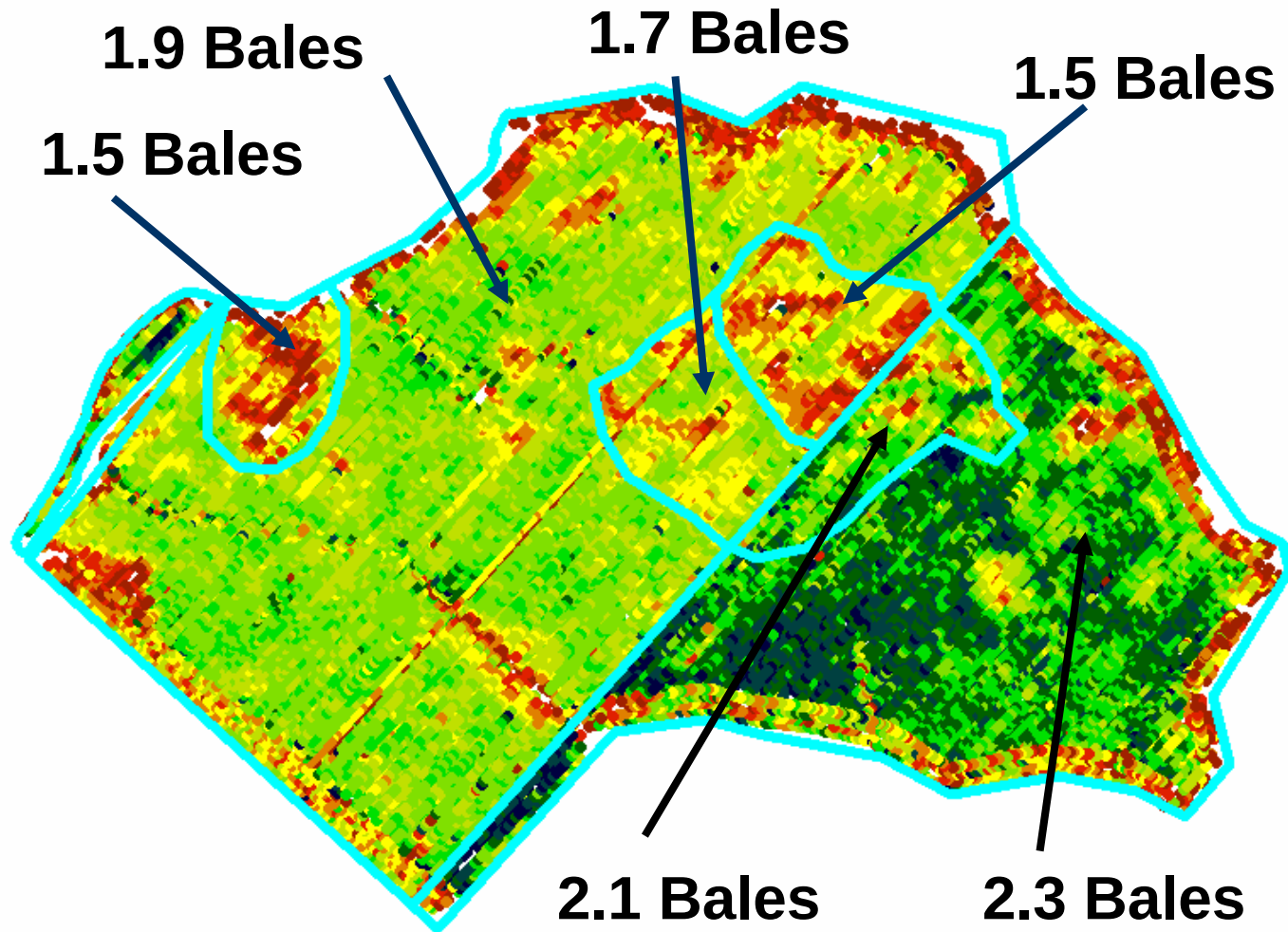
Refined Strategy



Cooper Field Cotton Yield 2001



Determining lost yield potential



Hydro Agri's N Sensor

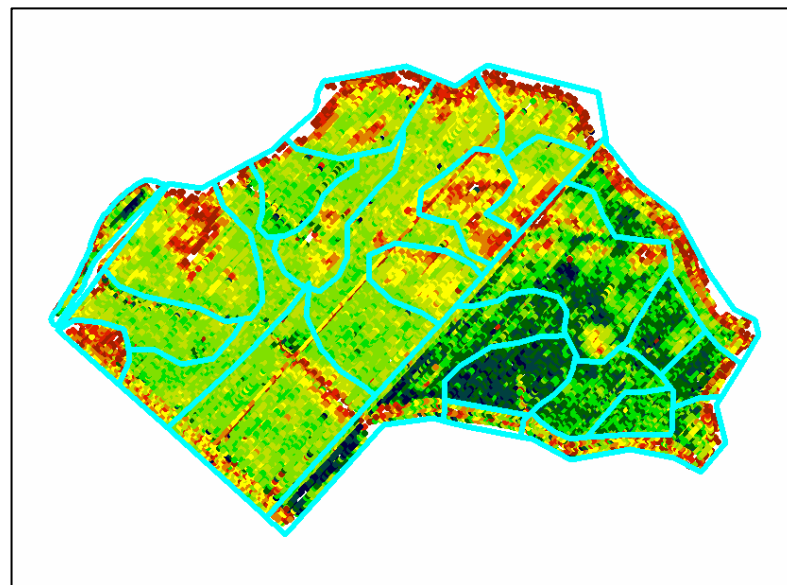
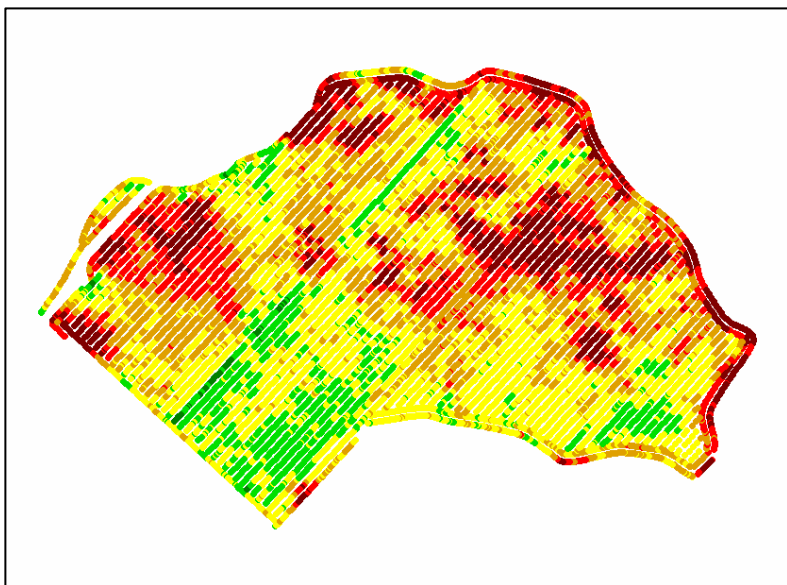


Sensors

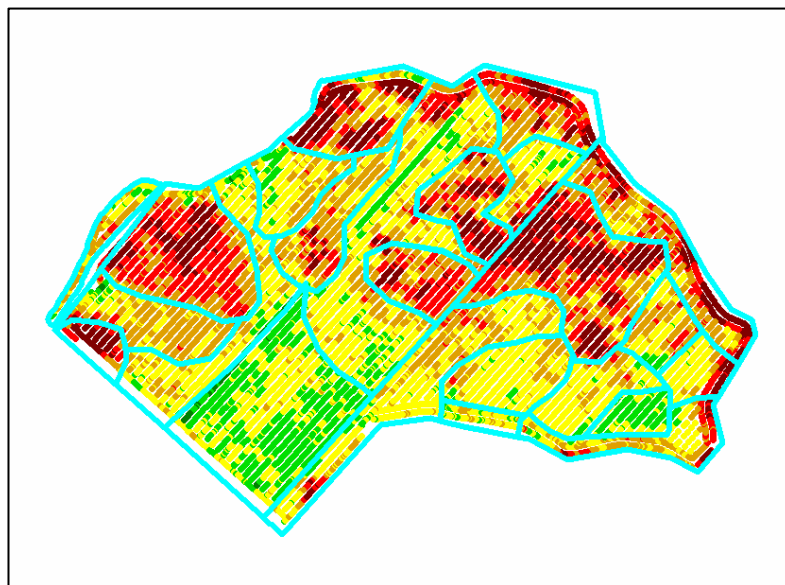


In Cab Screen

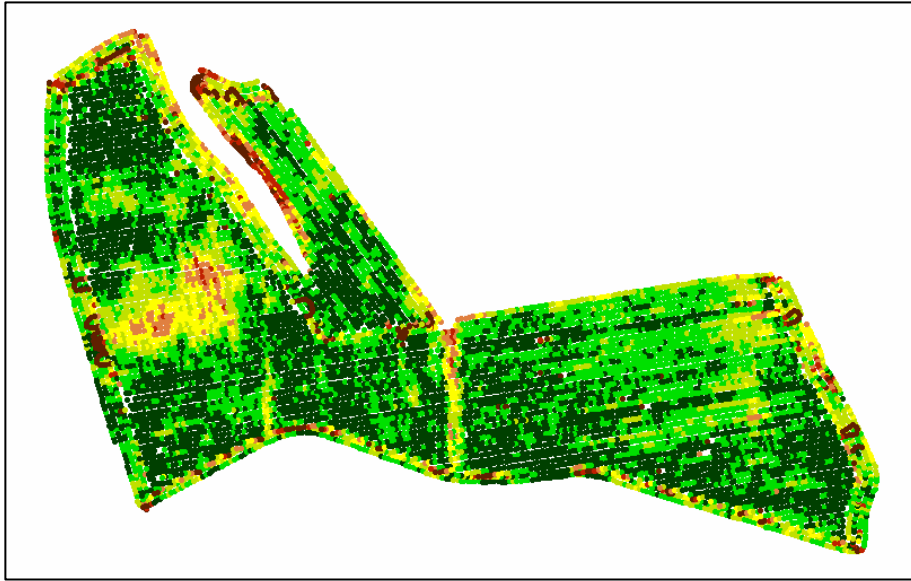
N Rate Determined from Sensor



N Rate



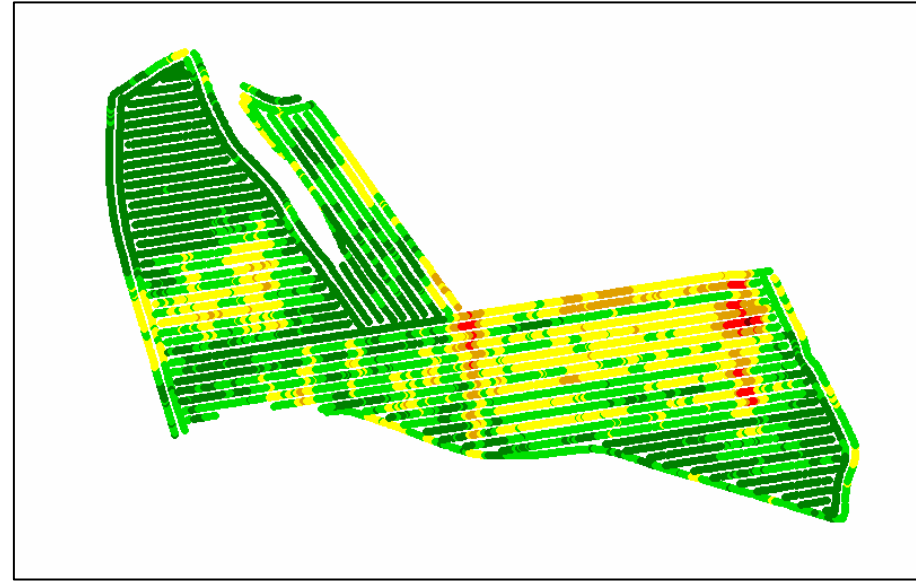
Cotton Yield 2001



2001 Cotton Yield

- 0 - 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2
- 2 - 2.5
- 2.5 - 3
- 3 - 4

N Sensor June 2001



N Rate

- 0 - 20
- 20 - 40
- 40 - 60
- 60 - 80
- 80 - 100
- 100 - 120

