# Yield Map Cleaning Examples with Legend

## 2004 corn
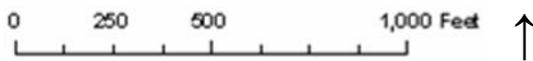


0    250    500    1,000 Feet

N

Field extent is black line (electrical installation and shadow are near center of field)
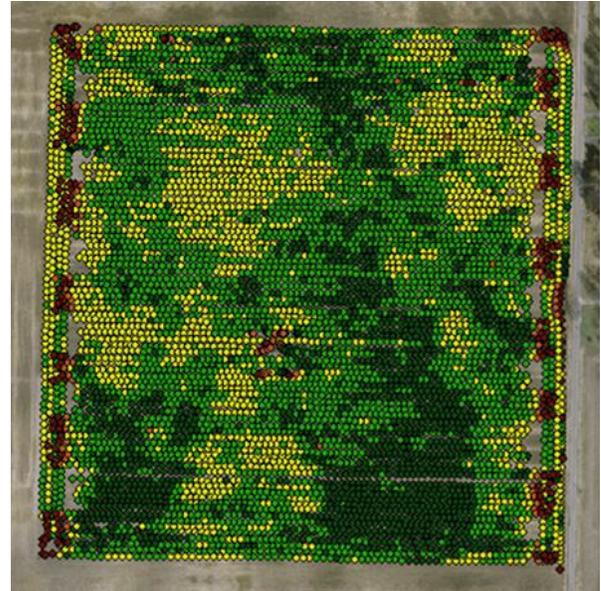


Raw 2004 corn yield map. Obvious problems: yield maximum not possible (and there should not be zero yield); end pass delay errors; too few values in two lowest natural break classifications. Operating around and near electrical installation caused errors.

Raw 2004 corn b/a (natural breaks)

- ◆ 0.0 – 59.4
- ◆ 59.5 – 147.5
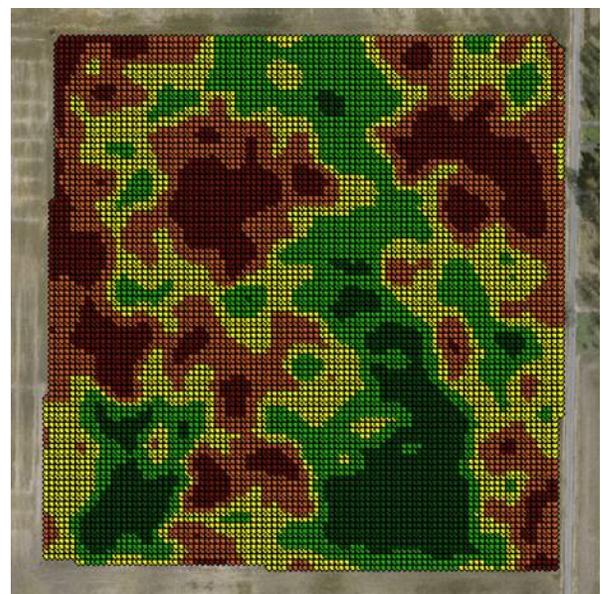- ◇ 147.6 – 204.7
- ◆ 204.8 – 230.5
- ◆ 230.6 – 494.7
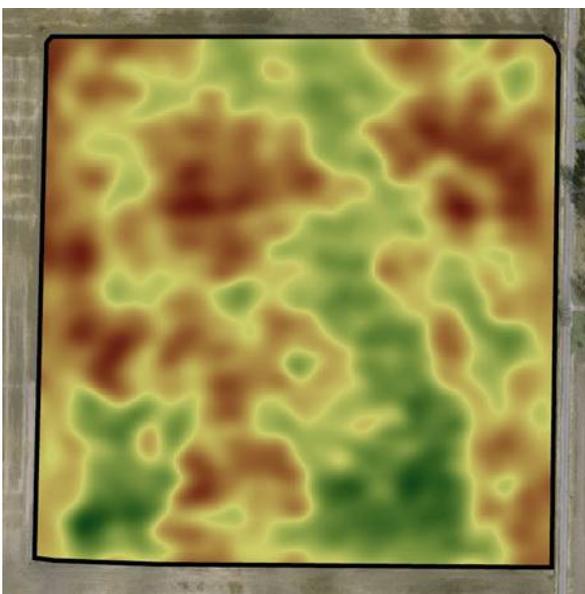


Clean, post-calibrated 2004 corn raster yield map (field average = 172.2)

215.3

136.3
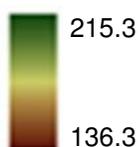
yellow = 175.8 ([high + low] / 2)

(darkest green = highest yield, yellow = middle of range, darkest reddish = lowest yield)



Clean, post-calibrated 2004 corn yield map with 4-meter point spacing (field average = 172.2). Relatively small features such as the base of an electrical installation can be ignored on yield maps but points representing those types of locations can be removed if preferred.

Clean 2004 corn b/a (natural breaks)

- ◆ 136.3 – 156.3
- ◆ 156.3 – 167.4
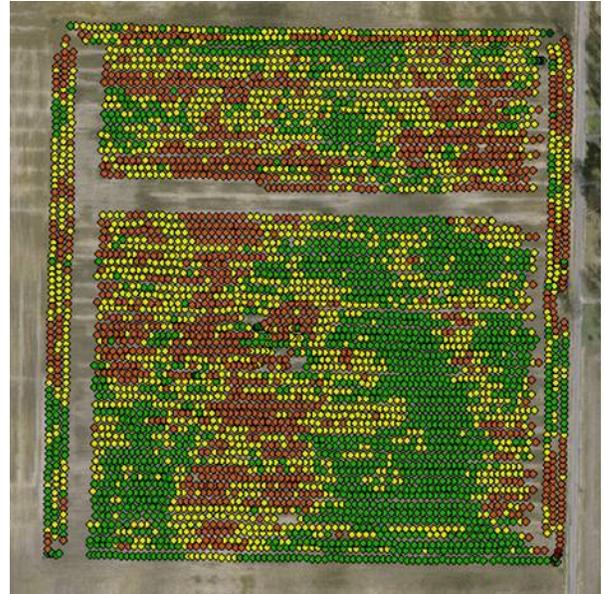- ◇ 164.7 – 178.3
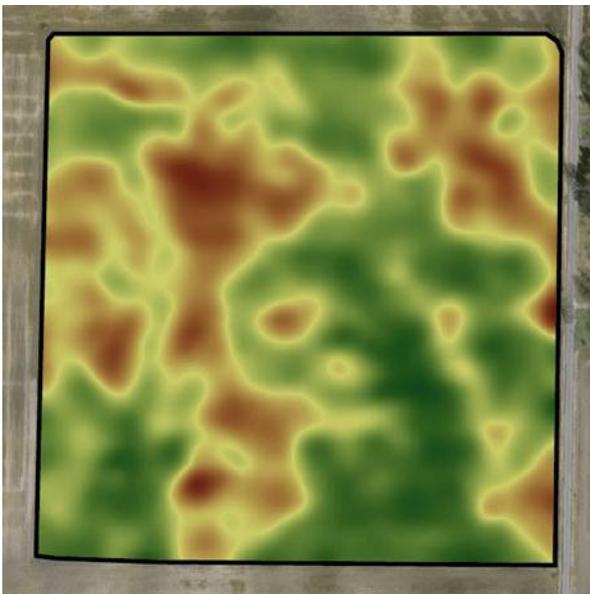- ◆ 178.3 – 191.0
- ◆ 191.0 – 215.3

# 2005 soy



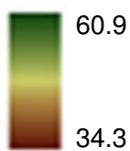Field extent is black line (electrical installation and shadow are near center of field)

Raw 2005 soy yield map. Obvious problems: missing data; yield maximum not possible (and there should not be zero yield); much evidence of grain flow delay error at class boundaries; too few values in lowest and highest natural break

Raw 2005 soy b/a (natural breaks)

- 0.0 − 14.7
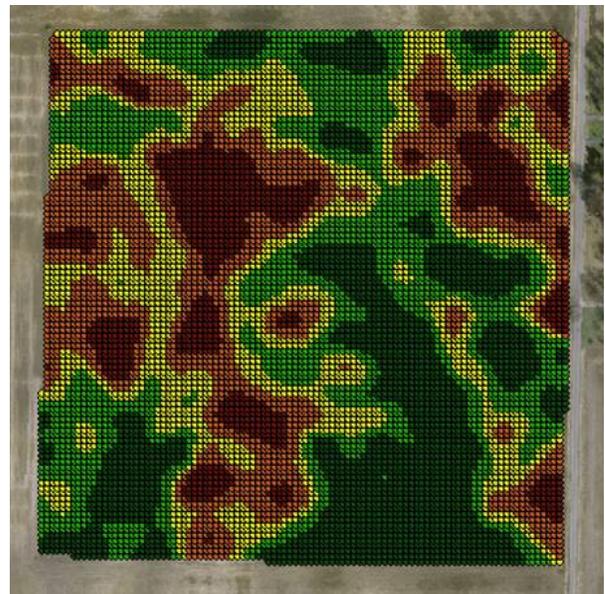- 14.8 − 44.2
- 44.3 − 53.6
- 53.7 − 107.1
- 107.2 − 320.3

Clean 2005 soy raster yield map (field average = 49.6)

60.9

34.3

yellow = 47.6 ([high + low] / 2])

(darkest green = highest yield, yellow = middle of range, darkest reddish = lowest yield)

Clean 2005 soy yield map with 4-meter point spacing (field average = 49.6) (value of sole lighter green point in lower area is 54.7)
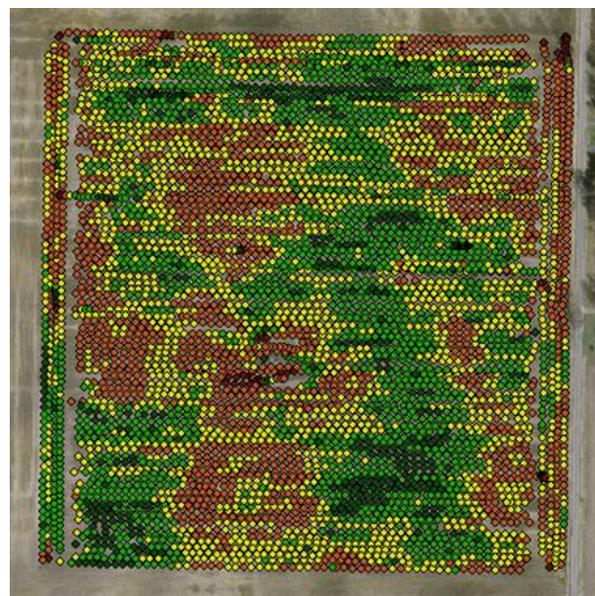
Clean 2005 soy b/a (natural breaks)

- 34.3 − 42.5
- 42.5 − 46.7
- 46.7 − 50.8
- 50.8 − 54.8
- 54.8 − 60.9

# 2006 corn



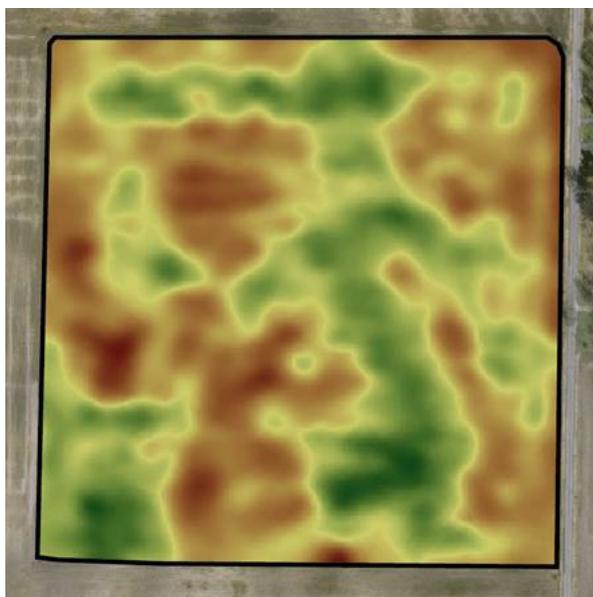0    250    500    1,000 Feet

↑
**N**

Field extent is black line (electrical installation and shadow are near of center of field)
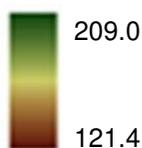


Raw 2006 corn yield map. Obvious problems: yield maximum not possible (and there should not be zero yield); too few values in lowest natural break classification; linear yield patterns (same seed throughout field; could be operating problem or drainage problem, very wet year). Operating around electrical installation caused errors.

Raw 2006 corn b/a (natural breaks)

- ◆ 0.0 − 54.7
- ◆ 54.8 − 115.8
- ◇ 115.9 − 137.4
- ◆ 137.5 − 165.0
- ◆ 165.1 − 348.7



Clean, post-calibrated 2006 corn raster yield map (field average = 162.3)

209.0

121.4

yellow = 165.2 ([high + low] / 2)

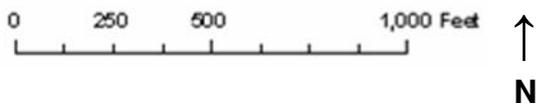(darkest green = highest yield, yellow = middle of range, darkest reddish = lowest yield)



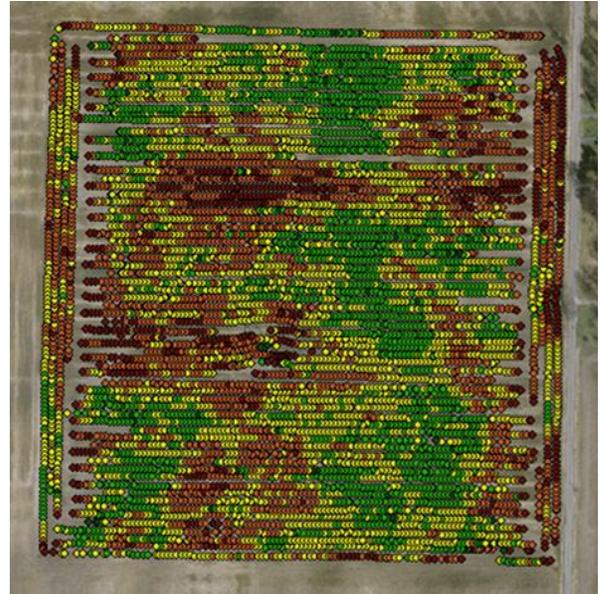Clean, post-calibrated 2006 corn yield map with 4-meter point spacing (field average = 162.3)

Clean 2006 corn b/a (natural breaks)

- ◆ 121.4 − 146.1
- ◆ 146.1 − 157.7
- ◇ 157.7 − 170.0
- ◆ 170.0 − 183.8
- ◆ 183.8 − 209.0

# 2007 soy



0    250    500              1,000 Feet

**N**

Field extent is black line (electrical installation and shadow are near center of field)
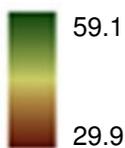


Raw 2007 soy yield map. Obvious problems: yield maximum not possible (and there should not be zero yield); start pass and end pass delay errors; too few values in lowest and highest natural break classifications.

Raw 2007 soy b/a (natural breaks)

- 0.0 – 36.2
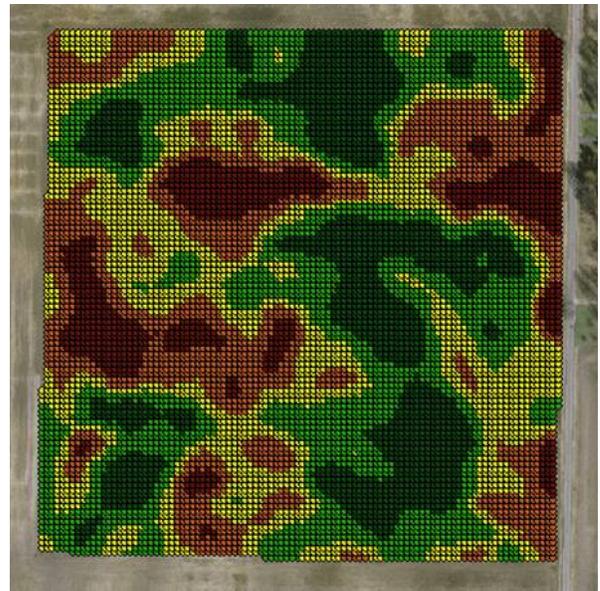- 36.3 – 45.1
- 45.2 – 53.2
- 53.3 – 74.9
- 75.0 – 138.8
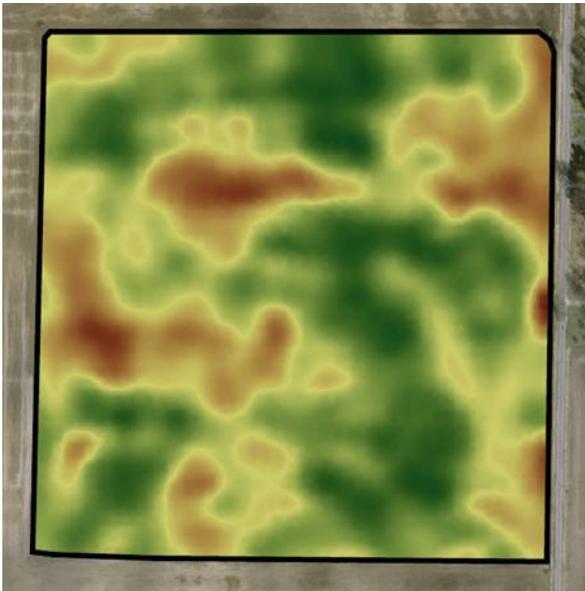


Clean 2007 soy raster yield map (field average = 47.5)

59.1

29.9

yellow = 44.5 ([high + low] / 2])

(darkest green = highest yield, yellow = middle of range, darkest reddish = lowest yield)



Clean 2007 soy yield map with 4-meter point spacing (field average = 47.5)

Clean 2007 soy b/a (natural breaks)

- 29.9 – 39.8
- 39.8 – 44.2
- 44.2 – 48.4
- 48.4 – 53.0
- 53.0 – 59.1