Salinity Demonstration Project 2002- 2011

Interest in Tile Drainage Affects on Salinity

Local Field Tiled in 2002
10 GPS sites established for sampling


2003 soybeans
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2004 Corn
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2005 Corn
AGVISE
LABORATORIES

2006 Sunflower


2007 Soybeans
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2008 Corn
2008 – Very good yield - One of Grady's best fields!
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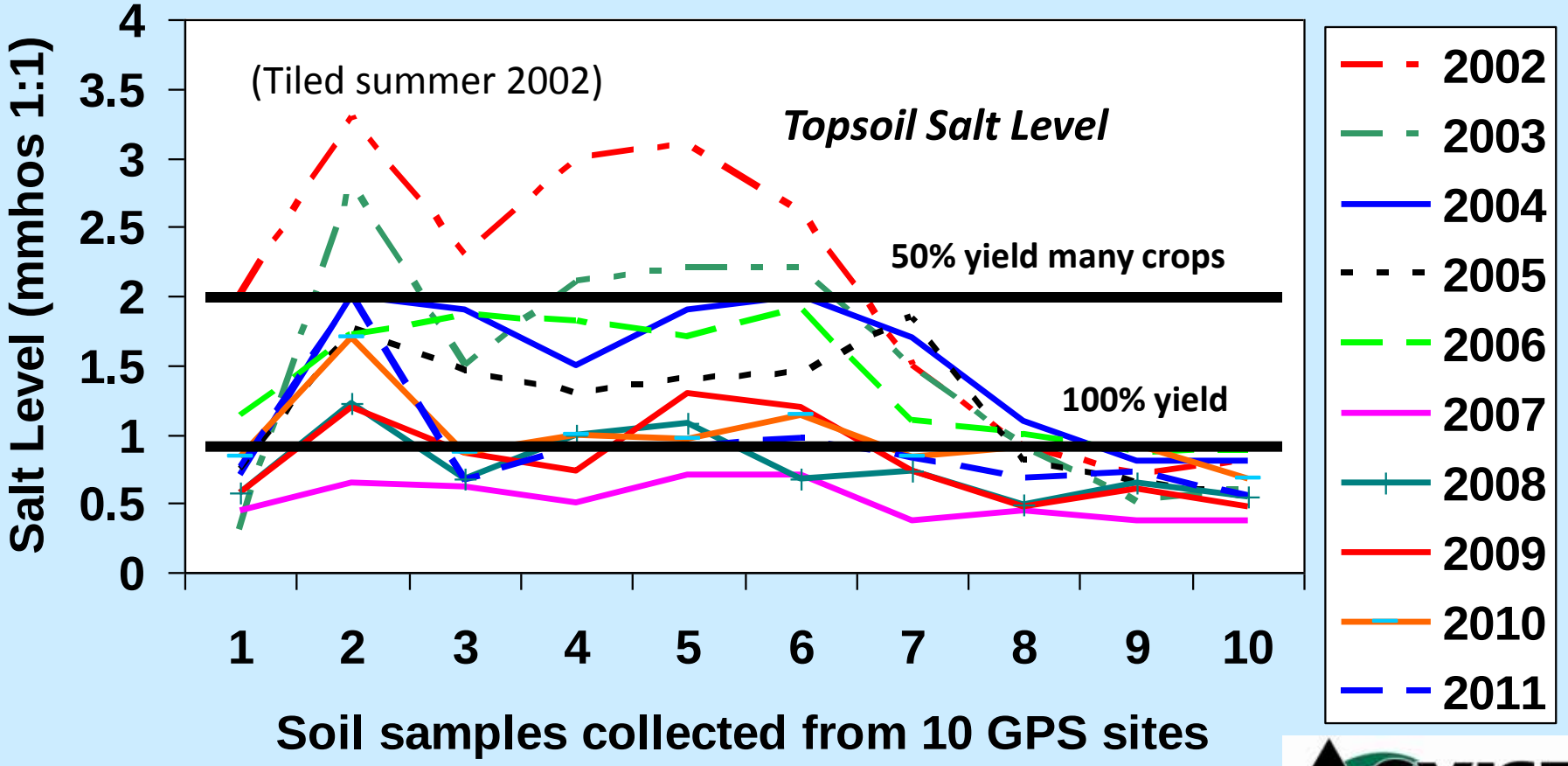
Tile Drainage - Soluble Salts Demonstration Project
Topsoil Salinity (2002-2010)



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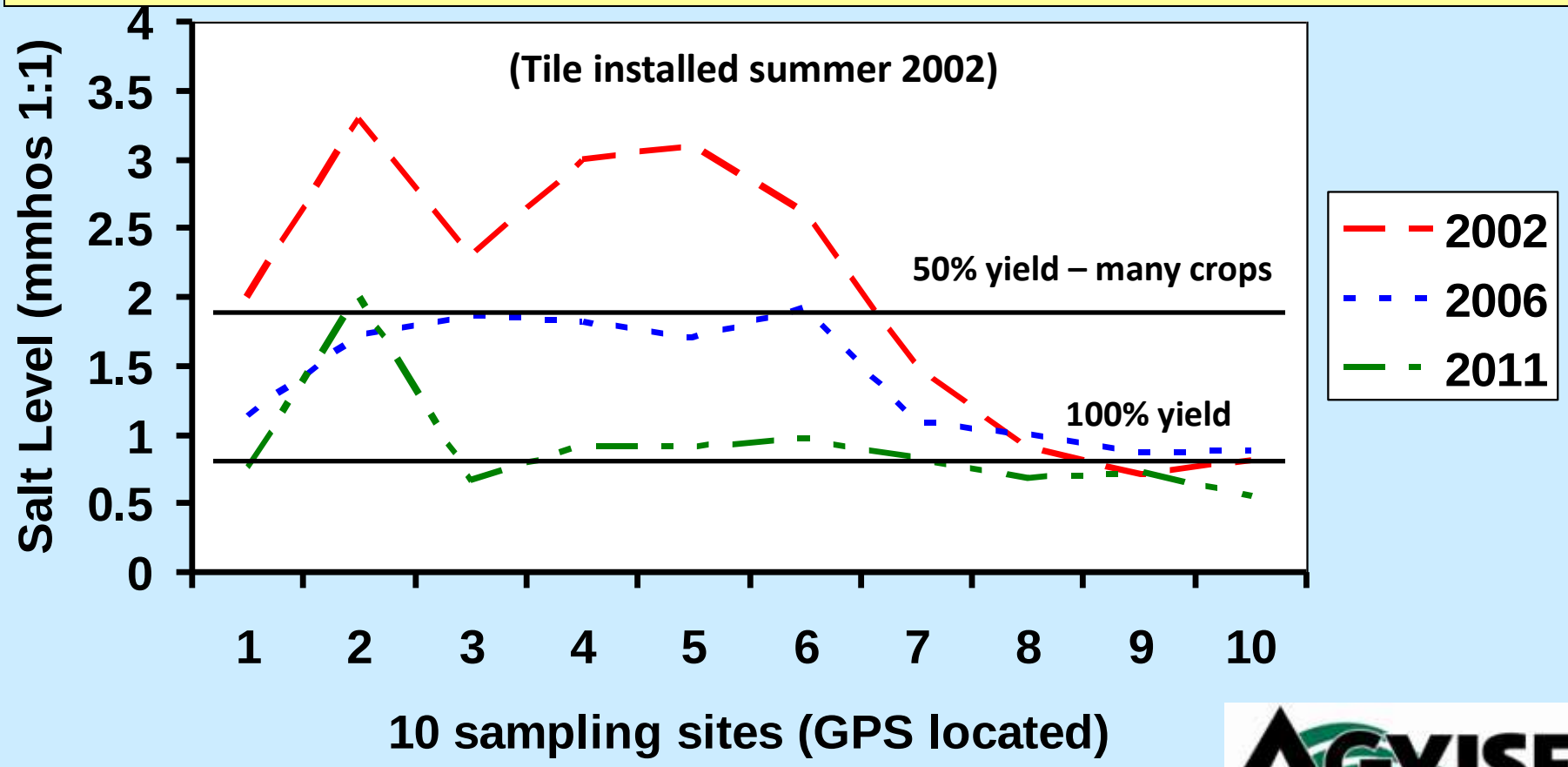
Tile Drainage - Soluble Salts Demonstration Project Topsoil Salinity (02, 06, 2011)



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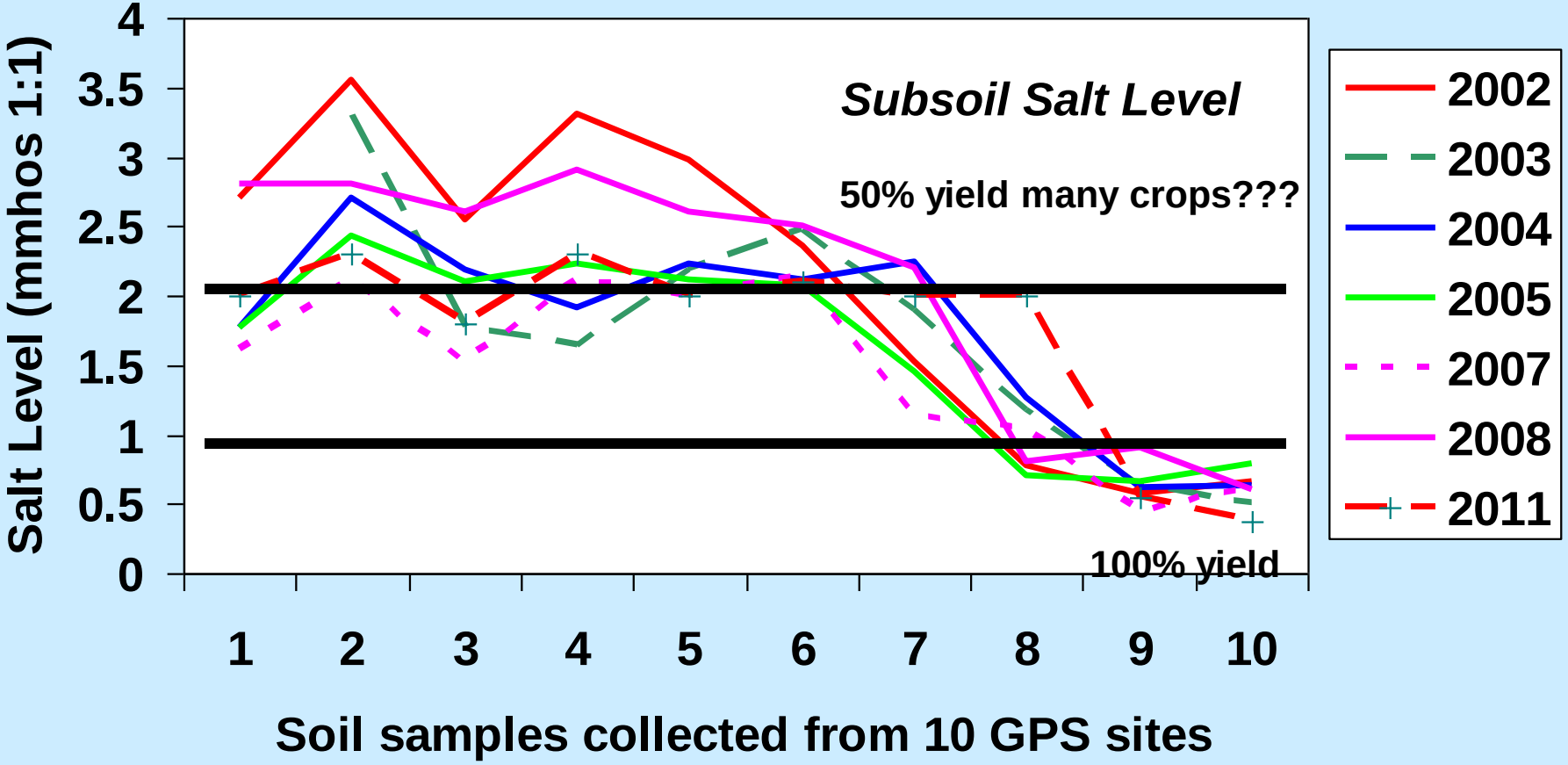
Tile Drainage - Subsoil Salt Changes
(02,03,04,05,06,07,08, 2011)



Subsoil Salt levels will remain high until the salt is leached from the topsoil

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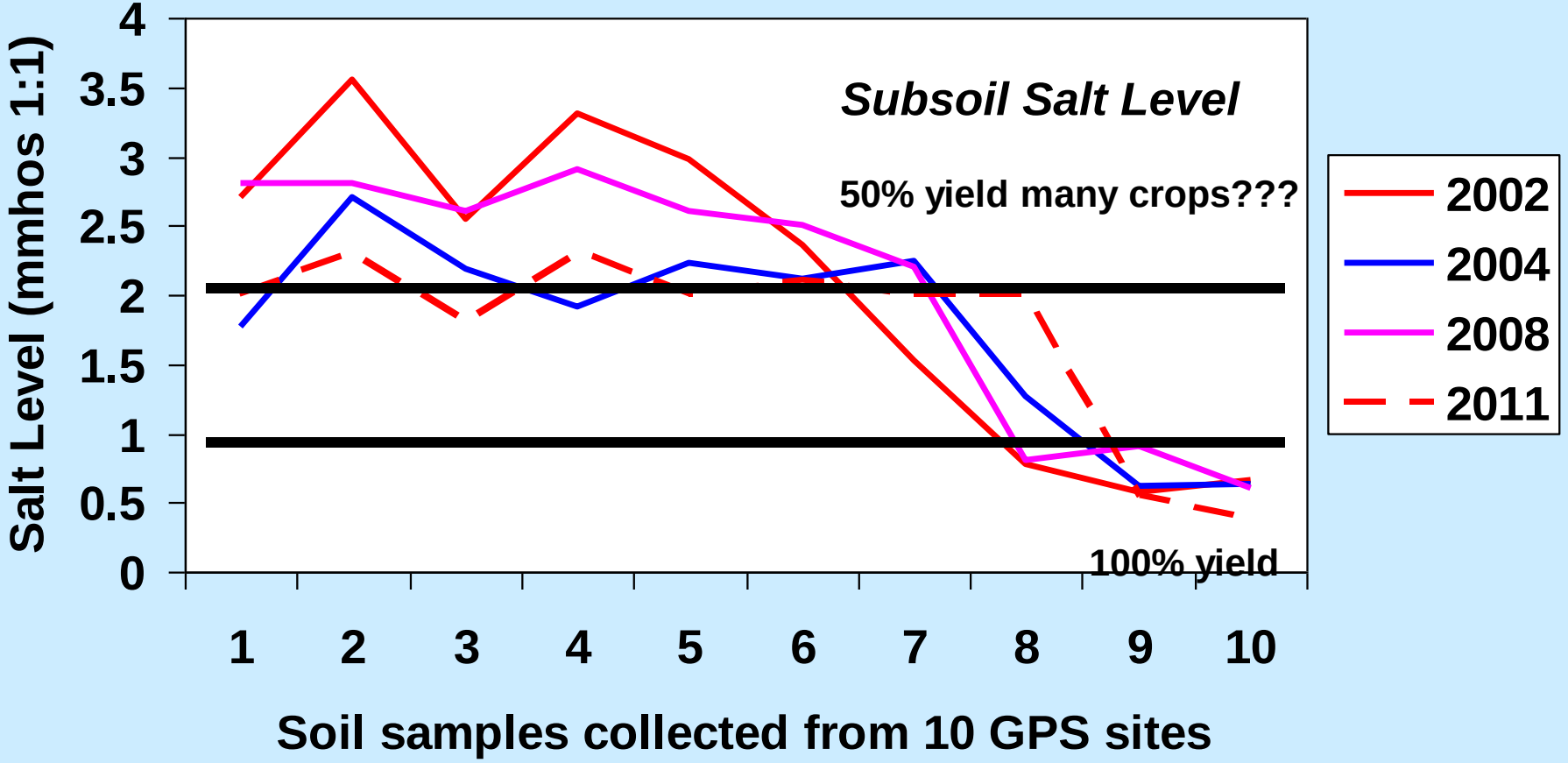
Tile Drainage - Subsoil Salt Changes
(2002, 2004, 2008, 2011)



Subsoil Salt levels will remain high until the salt is leached from the topsoil

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Tile Drainage Results

- *Topsoil salt levels have decreased a lot!*
- *Several crops now produce good yields*
  - *Corn, soybeans, sunflowers*
  - *Iron chlorosis severity in soybeans is much less*
- *Subsoil salt levels take longer to be decreased*
- *High subsoil salt levels do not affect yield as much as high subsoil salt levels*
  - *Seedling salt sensitivity vs. general salt sensitivity*

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Questions