Glyphosate Resistant Palmer Amaranth Roundtable
South Carolina Update

Mike Marshall
Edisto Research and Education Center
Clemson University
Situation

- Survey under way this fall on incidence of GR Palmer amaranth in South Carolina
- Tentative results:
  - 9 counties confirm GR Palmer amaranth
  - Most first observed problem in cotton in 2004
  - Majority reporting light to moderate infestations.
- Darlington
- Marion
- Lee
- Lexington
- Aiken
- Orangeburg
- Calhoun
- Dillon
- Marlboro
Crop Production for 2008

- Planned crop acreage:
  - Cotton 110,700 (137,000)
  - Corn 128,100 (124,000)
  - Soybean 205,100 (182,000)
  - Peanuts 41,700 (38,200)
  - Tobacco 5,700 (5,579)

- % using soil residual by crop
  - Cotton 77%
  - Corn 89%
  - Soybean 11%
Impact/Added Cost of GR Palmer amaranth

- **Cotton**
  - $22/A herbicide
  - $6 labor

- **Corn**
  - $6/A herbicide

- **Soybean**
  - $17/A herbicide
  - $5 labor
Outcomes

- GR Palmer amaranth will not go away
- Use of residual herbicides important
- Rotation of herbicide families
- Use of other herbicides with glyphosate
Questions