

### *No. Principal Investigators/CI*

### *Title*

1 Dr. Phillip Roberts Extension Cotton Team	Extension Cotton Team FY09 Grant Request
2 Dr. John R. Allison Stan Jones, Julian Ragan	Costs & Returns for Georgia Cotton Production
3 Dr. Stanley Culpepper L. Sosnoski, T. Grey, J. Kichler/UGA; Webster/USDA	Managing Glyphosate-Resistant Palmer amaranth in Georgia Cotton
4 Dr. Peng W. Chee Peggy Ozias-Akins	Development of Transgenic Cotton Cultivars Adapted to Georgia Environments
5 Dr. Peng W. Chee Richard Davis	Development of Diagnostic Markers for Root-Knot Nematode Resistant Genes in Cotton; A Valuable Tool for Breeding Nematode Resistance Cultivars
6 Dr. Edward Lubbers/Dr. Peng Chee Richard Davis	Breeding Georgia-Adapted Cotton Germplasm and Cultivars with Emphasis on Root-Knot Nematode Resistance
7 Dr. Wilson Faircloth D. Rowland	Development of Drought Avoidance Strategies That Combine Conservation Tillage & Irrigation Scheduling
8 Dr. Gerrit Hoogenboom Joel Paz	Application of Weather Data to Help Improve Cotton Production
9 Dr. James P. Noe	Biological Nematicides for Cotton Production
10 Dr. Calvin Perry, Dr. Glen Ritchie, Dr. Glen Ritchie	Use of Remote Sensing Tools to Monitor Cotton Response to Irrigation and Tillage Management
11 Dr. Calvin Perry Tubbs, Yager, Paz, Smith, Ritchie	Cotton Response to Drip Irrigation and Tillage in a Sandy Coastal Plain Soil
12 Dr. Glen Ritchie	The Effects of Irrigation & Fertility Management on In-Season Growth & Yield/Quality Characteristics of New Cotton Varieties
13 Dr. Glen Ritchie Dr. Peng Chee	Cotton Crop Management & Physiology: Identification of Drought Tolerance Characteristics
14 Dr. Greg Payne	Insecticide Resistance Monitoring of Heliothines in Cotton
15 Dr. John R. Ruberson	Importance of Natural Enemies for Stink Bug Control
16 Dr. Harry Schomberg Endale, Fisher, Raper	Evaluation of Flue Gas Desulfurization Gypsum for Enhancing Cotton Production on Piedmont Soils
17 Dr. Don Shurley A. Smith, N. Smith	Economics Research & Education: Profitability, Policy & Outlook, and Risk Management

18	Dr. George Vellidis	Evaluating the Feasibility of Variable Rate Application of Nitrogen in Georgia
19	Dr. William K. Vencill	Herbicide Resistant & New Weed Species: Ecology & Physiology
20	Dr. Andrew H. Paterson Peng Chee, Wright	Fine-Tuning of Novel Genetic Variation for use in Georgia Cotton Toward a New Adaptive Peak for Cotton Productivity and Quality
21	Dr. John All	Influence of Crimson Clover, Vetch or Wheat Cover Crops on Management of Stink Bug & Grasshoppers in Conservation Tillage Cotton
22	Dr. Changying Li	A High Resolution Optical Approach for Single Cotton Fiber Quality Characterization
23	Dr. Changying Li Andy Knowlton	A Benchmark Study of the UGA Micro Gin and Evaluation of Ginning Strategy on Yarn Quality
24	Dr. R. Scott Tubbs Toews, Shurley, Smith, Harris, Lee	Nutrient Cycling & Cover Crop Decomposition in Strip-Till & Conventional Cotton Tillage Systems
25	Dr. Sudhagar Mani Hawkins	In-field Residue to Densification: Analyzing Cotton Stalks as Feedstock for Alternative Energy Production
26	Dr. Jared Whitaker Culpepper	Evaluation of New Cotton Varieties Based on Yield, Fiber Quality, Plant Growth Regulator Use, and Maturity
27	Joshua Mayfield Harris, Tubbs, Smith	Evaluating Growth Response and Economic Return Curves for Potassium Fertility on Yield, Quality, and Leaf Spot Disease Incidence on Cotton
28	Dr. Michael Toews Haidekker, Xia	Rapid Detection of Damaged Cotton Bolls Using Fluorescence
29	Dr. Michael Toews	In-Field Border Insecticide Applications to Manage Stink Bugs
30	Koenning Davis/Stevenson	Effect of Soil Texture on the Damage Caused to Cotton by Reniform Nematodes