

RESEARCH 2011

Term: July 1, 2010 through December 31, 2011

Proposal #	Principal Investigator/Coordinating Investigators	Title
1	Dr. Guy D. Collins	Extension Cotton Team FY11 Grant Request
2	Dr. Stanley Culpepper/Lynn Sosnoski/Jeremy Kichler	Managing Glyphosate-Resistant Palmer amaranth in Georgia Cotton
3	Dr. Peng W. Chee/Peggy Ozias-Akins	Development of Transgenic Cotton Cultivars Adapted to Georgia Environments
4	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
5	Dr. Peng W. Chee/Ed Lubbers (Co-PI)/ Richard Davis	Breeding Georgia-Adapted Cotton Germplasm and Cultivars with Emphasis on Root-Knot Nematode Resistance
6	Dr. Wilson Faircloth	Development of Drought Avoidance Strategies That Combine Conservation Tillage & Irrigation Scheduling
7	Dr. Gerrit Hoogenboom	Application of Weather Data to Help Improve Cotton Production
8	Dr. Calvin Perry/Jeremy Whitaker/Scott Tubbs/Rad Yager/Amanda Smith/Glen Ritchie	Cotton Response to Subsurface Drip Irrigation in a Sandy Coastal Plain Soil
9	Dr. Glen Ritchie	Cotton Crop Management & Physiology: Identification of Drought Tolerance Characteristics in Multiple Cotton Varieties
10	Dr. Glen Ritchie	Irrigation Management Using a Portable Hoop House System, and Irrigation and Fertility Management Using Sensing Technology
11	Dr. Harry Schomberg/Dinku Endale/Dwight Fisher/ Randy Raper	Evaluation of Flue Gas Desulfurization Gypsum for Enhancing Cotton Production on Piedmont Soils
12	Dr. R. Scott Tubbs/Michael Toews/ Glen Harris/ Guy Collins/ Don Shurley/Amanda Smith	Fertilization and Cover Crop Interactions for Strip-Till Cotton Production
13	Dr. Jared Whitaker	Improving Cotton Production in Georgia With Proper Variety Selection and Production Management Decisions
14	Dr. Guy D. Collins	Fine Tuning Defoliation Practices to Promote Early Harvests, Preserve Yield and Preserve Fiber Quality
15	Dr. Guy D. Collins/Jared Whitaker	Transitioning from DP 555 BG/RR to New RR Flex Varieties...Redefining PGR Application Strategies and Plant Populations for Newer Varieties
16	Dr. Don Shurley/Amanda Smith/Nathan Smith	Conservation, Profitability, and Policy: Funding Economic Research and Education in Production, Policy, and Risk Management
17	Dr. George Vellidis/Glen Ritchie	Variable Rate Application of PGRs, Defoliants, and Nitrogen on Georgia Cotton: From Research to Implementation
18	Dr. William K. Vencill	Herbicide Resistant and New Weed Species: Ecology and Physiology
19	Dr. Greg Payne	Insecticide Resistance Monitoring of Heliothines in Cotton
20	Dr. John R. Ruberson	Importance of Natural Enemies for Stink Bug Control
21	Dr. John All	Integrated Management of Short-Horned Grasshoppers and Stink Bugs in Conservation Tillage Cotton Using Cover Crop, Herbicide Burn Down Timing, and Chitin Synthesis Inhibitor Insecticides

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22	Dr. Michael Toews	Understanding Stink Bug Feeding Preferences and Movement on Individual Cotton Plants
23	John J. Herber/Michael Toews	Stink Bug Distribution and Reproductive Capacity in Georgia Cotton Farmscapes
24	Steve Koenning (Regional Project) Richard Davis/Cathy Stevenson	Effect of Soil Texture on the Damage Caused to Cotton by Reniform Nematodes