Agricultural Research Service

Southern Regional Research Center (SRRC)

Historical Achievements

• National Historic Chemical Landmark Award for developing permanent-press and flame retardant cotton fabrics
• Developed improved concentrate for frozen orange juice
• Developed improved sugarcane cultivars and improved processing methods
• Developed methods for quantitating and preventing aflatoxin contamination
• Developed methods to improve the shelf life of peanut products

Current Research Units

• Cotton Structure and Quality
• Cotton Fiber Bioscience
• Cotton Chemistry and Utilization
• Commodity Utilization
• Food and Feed Safety
• Food Processing and Sensory Quality

Pilot Plant Facilities and Equipment

• 40,000 sq. ft. pilot plant
• Milling equipment (knife, hammer, attrition, pin mills, etc.)
• Reactors (glass and stainless steel jacketed reactors)
• Fiber carding, drawing, spinning, knitting, and weaving operations
• Non-woven fiber processing
• Fabric wet processing, dyeing, and chemical treatments
• Solvent extraction and processing
• Extrusion (single and twin barrel screw extruders)
• Ultrafiltration
• Ultrasonic treatment
• Evaporation
• Pelleting
• Pyrolysis
• Heat treatment (ovens, furnaces)
• Freeze-drying (barrel, shelf, manifold)
• Fermentation
• Particle separations (screening, air classification, gravity table separations)
• Dehulling
• Blending and mixing

Research for the Growing World

Drying samples of permanent press treated cotton.
Peanut products utilizing SRRC research methods.
Production of cotton nonwoven fabric on a commercial-grade hydroentanglement system.
Comparing sugar quality during industrial sugarcane processing.