

Strategic Themes and Thrusts
Department of Plant Sciences, University of Tennessee
2004

Theme1: Improvement and Security of Crop Production

Production Efficiency

- pest management
- precision agriculture
- production systems
- yield and quality enhancement
- environmental protection

Health and Safety

- improved crop nutritive value
- food contaminants
- agroterrorism
- actual and perceived benefits and risks of genetically modified organisms

New Crops and Cultivars

- molecular and conventional approaches to producing new cultivars
- testing plant introductions
- novel plant-based metabolites and proteins
- phytoremediation

Bioenergy and Bioproducts

- herbaceous and woody biomass production
- soy-based fuels and lubricants
- ethanol
- fiber crops

Theme 2: Landscape Stewardship

Landscape Design/Services

- sustainable landscape practices
- environmental restoration
- garden design
- landscape construction & contracting
- landscape architecture

Turfgrass Science

- turfgrass improvement
- environmental enhancement and protection
- turfgrasses management and cultural practices

Horticulture Outreach

- master gardener
- landscape/retail services

Public Horticulture

- people/plant interactions
- horticultural education
- public gardens