

**USDA-CSREES FY 2003 STATE ANNUAL REPORT
REVIEW TEAM SUMMARY**

State: Tennessee

Institution: University of Tennessee-Research & Extension
Tennessee State University-Extension

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Type of Report: Combined Research-1862 & Extension-1862 & 1890

NPL Reviewers: Basil Eastwood and Peter Burfening

This Review Team Summary reflects the consensus opinion of the review team members regarding the Annual Report. This is a strong and comprehensive report that addresses all five national goals. Acceptance of the report is recommended.

Strengths of the Impact Statements in the Planned Programs: (Related to important impacts and any other statements that highlight programmatic strength)

Many strong and well documented impact statements may be found in support of each of the five goals. The inclusion of how the impact data were derived is very helpful and adds increased credibility to the statements. This includes data from surveys, follow-up evaluations, pre-test/post-test measures, actual records, verbal responses, observations and expert estimations.

Examples of excellent impacts include Goal 1, Key Theme Agricultural Competitiveness - 1.1 - the MANAGE Program, and Value-Added Beef Marketing; 1.2 - Making Forages Work; Goal 2, Key Theme Safe Food Handling - 2.1 - Safe Food for Families, and Marshall County 4-H Improves Food Safety Practices; Key Theme Foodborne Pathogen Protection - 2.3 - Memphis-Shelby County Food Safety; Goal 3, Key Theme Human Nutrition - 3.1 - Improving the Lives of Food Stamp Recipients, Hawkins County 4-H, Achieving Healthy Diets Through Tennessee's EFNEP, and 4-H Teaches Better Nutrition; Key Theme Health Care - 3.2 - Dining with Diabetes, Walk Across Tennessee, and Arthritis Self-Help; Goal 4, Key Theme Natural Resources Management - 4.5 - 4-H Natural Resources and the Environment, Tennessee 4-H Wildlife Project, Tennessee Quality Lumber Initiative, and Native Warm-Season Grasses for Wildlife Habitat and Livestock Forage; and Goal 5, Key Theme Family Resource Management - 5.2 - Teaching Young Tennesseans to Manage Money, and Tennessee Saves; Key Theme 4-H Workforce Preparation - 5.3 - 4-H Prepares Youth for the World of Work; Key Theme Better Tennessee Parenting - 5.4 - Parenting Apart, Teen Sexuality Education Programs, and Parenting Successfully; Key Theme Child Care - 5.5 - Extension Cares for Tennessee's Children and Youth; Key Theme 4-H Character/Ethics/Civic Education - 5.6 - 4-H Citizenship; Key Theme 4-H Leadership Training and Development - 5.7 - Tennessee 4-H Youth Development Volunteer Program, and Youth Leadership Dickson County;

Weaknesses of the Impact Statements in the Planned Programs:

There are still a few examples of statements that reflect research or program results that may not have had time to demonstrate an impact and only show potential for future impacts. Holding off on reporting some of these until real impacts are available would reduce the size of the Report and allow the strong impacts to dominate.

Examples of programs not yet ready to report include 1.2 - Heat Stress Reduces Fertility of Dairy Cows by Altering Oocyte Quality, Improving Embryonic Survival in Livestock, and The Role of Retinol in Oocyte Maturation and Early Embryonic Development; 1.3 - Improving Animal Well-being in Tennessee, and Nutrition and Environmental Temperature Interaction in Poultry; 2.2 - Streptococcus Uberis Adhesion Molecule, and Improving Milk Quality by Identifying Dairy Cows Susceptible to Mastitis; 2.3 - Investigation of Physicochemical Properties of Food Colloids and Biopolymers and Their Relationship to Food Processing and Microbiology, Functional and Bioactive Carbohydrates, and Use of Antimicrobials, Germicides and Biological Systems to Control Growth of Foodborne Pathogens; 4.1 - A Dual Biocontrol against Plant Pathogens and Insect Pests; 4.2 - Economic Impacts of Growing Bio-Energy-Dedicated Crops on Agricultural Land; 4.5 - Deer Damage and Management Options for Reducing Losses to Agricultural Production, Residential Energy Consumers' Preferences for Green Power from Bio-energy, and Sustaining Tennessee Oak Forests.

Stakeholder Input Process Comments: (make comments on the three requirements on the checklist)

A strong stakeholder process that allows broad input to Research and Extension programs is in place and seems to be working well. Several examples throughout the Report indicate responses to the process. An excellent example of serving the under-served is in Goal 5, Key Theme Better Tennessee Parenting - 5.4 - TSU Trains Fathers to be Better Parents, which involved working with sheriff's department staff and inmates.

Program Review Process Comments:

No significant changes have been made in the program review process since submission of the 5-Year Plan of Work.

Evaluation of the Success of Multi and Joint Activities Comments:

Multistate, multi-institutional, multi-disciplinary, and integrated Research and Extension activities are critically important in Tennessee and well documented in this Report. These activities have also addressed the needs of limited resource and minority clientele; small farmers, tobacco growers and others with special needs.

Multi State Extension Comments: (If Applicable)

The Tennessee Agricultural Research and Extension System works cooperatively with other states in many combinations, from one additional state to national programs and includes a number of programs involving all states in the Southern region.

Integrated Research and Extension Comments:

A number of examples of excellent integration of Research and Extension may be found throughout the Report. Excellent examples include Goal 1, Key Theme Agricultural Competitiveness 1.1 - Assessing and Correcting Mineral Imbalances and Deficiencies in Beef Cattle on Tennessee Farms; 1.2 - Integrated

Research and Extension Improve Tennessee Tobacco Income. Other programs are listed along with a short description of each.

Suggested Improvements for Next Year:

This is an excellent report and only minor improvements are needed. Additional work is needed to strengthen a few of the impact statements and patience might be applied in some program areas until real impacts are available. Important research and program development results that don't yet have impacts might be briefly included in the overview portions for each goal.

Required Improvements for Next Year:

None indicated.