Guidance for the Annual Report of Accomplishments and Results (Abbreviated)

The 5-Year Plan of Work is based on the five national goals established in the Cooperative State Research, Education, and Extension Service (CSREES) Agency Strategic Plans and linked to the five national goals within the Research, Education, and Economics (REE) Mission Area of the U.S. Department of Agriculture. These national goals were adopted by the National Agricultural Research, Extension, Education, and Economics Advisory Board. These goals were developed from stakeholder input in conjunction with existing Federal-State Partnerships. The body of the 5-Year Plan of Work narrative focuses on these goals and outcomes. Consequently, the Annual Report of Accomplishments and Results also focuses on these goals and outcomes. The national goals as identified in the Guidelines for State Plans of Work are:

Goal 1: An agricultural system that is highly competitive in the global economy. Through research and education, empower the agricultural system with knowledge that will improve the competitiveness in domestic production, processing, and marketing.

Goal 2: A safe and secure food and fiber system. To ensure an adequate food and fiber supply and food safety through improved science-based detection, surveillance, prevention, and education.

Goal 3: A healthy, well-nourished population. Through research and education on nutrition and development of more nutritious foods, enable people to make health promoting choices.

Goal 4: Greater harmony between agriculture and the environment. Enhance the quality of the environment through better understanding of and building on agriculture's and forestry's complex links with soil, water, air, and biotic resources.

Goal 5: Enhanced economic opportunity and quality of life for Americans. Empower people and communities, through research-based information and education, to address economic and social challenges facing our youth, families, and communities.

The following is the desired Annual Report Framework under each Goal.

FY 2001 Annual Report of Accomplishments and Results

Goal (e.g., Goal 1)

Overview

An executive summary, approximately one to two pages, should be presented for each goal covering the accomplishments and results in your State for the reporting period based on the approved 5-Year Plan of Work. The Overview should:

a. Stress extension and/or research results supported with agricultural research and extension formula funds (i.e., outputs).

b. Highlight successes (i.e., outcomes), and any program or research redirection which has resulted in significant change within a state or among states (i.e., multistate or integrated).

c. Document benefits to clientele and stakeholders (i.e., impacts).

d. State's own assessment of accomplishments based on the assessment of the 5-Year Plan of Work performance for the current reporting period.

e. Total expenditures by source of funding, and full-time equivalents for the Goal. Source of funding may include one or more of the following: Hatch Act funds, Smith-Lever Act funds, funding authorized under sections 1444 and 1445 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (NARETPA), and State matching funds.

Key Theme

There may be one or several Key Themes for each goal. See Appendix A for the list of Key Themes reported in the 5-Year Plans of Work for FY 2000 - FY 2004. For each applicable Key Theme, the following information should be included:

a. Brief description of the activity.

b. Short impact/accomplishment statement for each applicable Key Theme.

c. Source of funding. Source of funding may include one or more of the following: Hatch Act funds, Smith-Lever Act funds, funding authorized under sections 1444 and 1445 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (NARETPA), and State matching funds.

d. Scope of Impact. Identify which of the following apply to the activities conducted under the Key Theme:
   (1) State Specific
   (2) Multistate Extension
      - List names of States, not individuals. Please use abbreviations.
   (3) Multistate Research
      - List names of States, not individuals. Please use abbreviations.
   (4) Integrated Research and Extension
   (5) Multistate Integrated Research and Extension
      - List names of States, not individuals. Please use abbreviations.

See Appendix B for a sample using this format to report on the Annual Report.

Appendix A

Five-Year Plan of Work (FY 2000 - FY 2004) Key Themes

Goal 1

Adding Value to New and Old Agricultural Products
Agricultural Competitiveness
Agricultural Profitability
Animal Genomics
Animal Health
Animal Production Efficiency
Apiculture
Aquaculture
Biobased Products
Biofuels
Biotechnology
Bioterrorism
Diversified/Alternative Agriculture
Emerging Infectious Diseases
GIS/GPS
Grazing
Home Lawn and Gardening
Innovative Farming Techniques
Invasive Species
Managing Change in Agriculture
New Uses for Agricultural Products
Niche Market
Organic Agriculture
Ornamental/Green Agriculture
Plant Genomics
Plant Germplasm
Plant Health
Plant Production Efficiency
Precision Agriculture
Rangeland/Pasture Management
Risk Management
Small Farm Viability
Tropical Agriculture
Urban Gardening

Goal 2

Food Accessability and Affordability
Food Handling
Food Quality
Food Recovery/Gleaning
Food Resource Management

Food Safety
Food Security
Foodborne Illness
Foodborne Pathogen Protection
HACCP

Goal 3

Birth Weight
Health Care
Human Health
Human Nutrition
Infant Mortality
Medicinal Plants
Nutricueticals

Goal 4

Agricultural Waste Management
Air Quality
Biodiversity
Biological Control
Drought Prevention and Mitigation
Endangered Species
Energy Conservation
Forest Crops
Forest Resource Management
Global Change and Climate Change
Hazardous Materials
Integrated Pest Management
Land Use
Natural Resources Management
Nutrient Management
Permaculture Land Management
Pesticide Application
Recycling
Riparian Management
Soil Erosion
Soil Quality
Sustainable Agriculture
Water Quality
Weather and Climate
Wetlands Restoration and Protection
Wildfire Science and Management
Wildlife Management
Yard Waste/Composting

Goal 5

Aging
Agricultural Financial Management
Character/Ethics Education
Child Care/Dependent Care
Children, Youth, and Families at Risk
Communications Skills
Community Development
Conflict Management
Consumer Management
Estate Planning
Family Resource Management
Farm Safety
Fire Safety
Home Safety
Home-based Business Education
Impact of Change on Rural Communities
Jobs/Employment
Leadership Training and Development
Literacy
Parenting
Promoting Business Programs
Promoting Housing Programs
Retirement Planning
Supplemental Income Strategies
Tourism
Workforce Preparation - Youth and Adult
Workforce Safety
Youth Development/4-H
Youth Farm Safety

Focus Areas in FY 2001 CSREES Budget

Advances in Biotechnology to Develop New Agricultural Products
Biobased Products Program
Improved Pest Control and Food Quality and Protection Act Implementation
Invasive Species Program
Modifying Food Intake Behavior
Organic Agriculture, Production, and Processing Methods
Scientific Basis for Optimal Health
Small Farms and Their Contributions to Local Economies
Sustainability of Agriculture and Forestry
Water Quality

Appendix B

Sample

Goal 1

Overview

Developed by state institution based on projections made in the Plan of Work.

Key Theme - Animal Production Efficiency

a. Extension specialists developed a comprehensive program to assure the quality of cattle produced in the State. The Beef Quality Assurance program consisted of three concurrent sessions on Proper Management, Targeted Breeding and Responsible Culling. Each 20-minute session was conducted in front of its own stand alone display with numerous examples and visual aids. These programs were presented at livestock auction facilities aimed at producers with small to medium-sized herds; at order buyer facilities aimed at their management and beef and dairy cattle processing employees and at a number of other locations. Cooperating Institutions/Organizations: The State’s Cattleman's Association National Cattlemen's Beef Association The State Livestock Markets Association The State Veterinary Medical Association

b. Impact - More than 3600 people attended these meetings which is about 10 percent of the state's beef operations. Overall evaluation of the value of the program by participants was 9.14 on a 10 point scale. Nearly 80 percent of those surveyed after the meeting indicated they had implemented changes or were planning changes in their operations as a result of attending this meeting.

c. Source of Federal Funds - Smith-Lever 3b&c

d. Scope of Impact - State Specific

Key Theme - Plant Germplasm

a. The State Agricultural Experiment Station researchers are developing new cover crop and forage cultivars that are more productive and useful to farmers. This has been done by gathering plant material and using this to breed new crops. The first objective of the project on forage crops is to identify and evaluate molecular, physiological, and morphological traits that can be used as selection criteria in developing germplasm of forages with enhanced disease resistance, seedling vigor, persistence, tolerance to environmental stress, and yield. The second

objective is to study genetic structure and genotype-environment interactions to formulate selection strategies conducive to the development of improved germplasm through conventional and unconventional breeding techniques. Applied research also has been conducted on cultivar development of vetches, sericea lespedeza, crimson clover, caley pea, red clover, white clover, and switchgrass.

b. Impact - Thus far, five new cultivars have been developed including: AU Grazer, released in 1997, is the first sericea lespedeza cultivar tolerant to grazing. This cultivar has higher survival and more vigor under grazing conditions than other sericea lespedeza cultivars. Also, it has better forage quality as is evidenced by the lower lignin content and more digestible dry matter than previous cultivars. AU Sunrise, released in 1997, is the earliest maturing crimson clover cultivar in the market. It was selected in cooperation with the USDA-Natural Resources Conservation Service. AU EarlyCover, is the only early flowering hairy vetch cultivar commercially available. It was released in cooperation with USDA-NRCS in 1994. AU GroundCover, is the only caley pea cultivar available in the market. It was released in cooperation with USDA-NRCS in 1994. State researchers also cooperated in the release of the hairy vetch cultivar Americus by the StateX Agricultural Experiment Station and the USDA-Soil Conservation Service in 1993. AU Donnelly, a cultivar of low-tannin sericea lespedeza was released in 1987. AU Donnelly has more early spring growth and is higher yielding throughout the season than AU Lotan, the only other low-tannin cultivar available to farmers. AU Donnelly averages 6 percent higher in digestible dry matter and 10 percent higher in crude protein than AU Lotan at the hay stage. Tannin content is about the same in AU Donnelly as in AU Lotan.

c. Source of Federal Funds - Hatch

d. Scope of Impact - Multi-State Research
   a. - With State X

Key Theme - Aquaculture

a. A State research project has been concentrating on better understanding how the larvae find and recognize the inducing cue and how this recognition results in the change to an edible adult oyster. The project uses an electron and laser scanning confocal microscropy combined with antibodies that allow researchers to visualize the sensory structures of the oyster larvae. Eventually, pharmacological probes will be used to examine the larvae's responses to substance involved in the process leading to the induction and the change to the adult form. The project began in 1998 and ends in 2003.

b. Impact - So far, the larvae have been labeled with antibodies that bind to the

neurotransmitter serotonin and have been examined using the laser-scanning microscoper. This work is allowing researchers to develop a diagram of some of the nervous system circuitry that is responsible for larval behavior that allows a larva to locate the cue. The information eventually will allow for greater efficiency and success in commercial oyster culture, both in artificial and natural oyster environments.

c. Source of Federal Funds - Hatch

d. Scope of Impact - State Specific

(Complete copy of this document can be found at: www.reeusda.gov/part/areera/)