

# CROSSWALK BETWEEN THE CSREES STRATEGIC PLAN FOR 2007-2012 AND PORTFOLIOS OF PROGRAMS

## 2009 REVIEW CYCLE

### What is a Portfolio?

**Functional Definition:** A portfolio is a set of continuing, CSREES-funded activities broadly focused on a current and/or emerging issue of societal importance and serves as the foundation for agency planning and assessment.

**Operational Definition:** A portfolio is operationally defined by a unique set of primary knowledge areas (KAs) supplemented by secondary KAs that may be shared with other portfolios<sup>1</sup>.

### Animal Systems

**Portfolio Mission:** Within CSREES, the Animal Systems team promotes animal production and protection systems that are efficient, economically competitive, environmentally sound, and socially acceptable through research, education, and extension programs.

**Portfolio Vision:** The Animal Systems vision is to be the respected national entity that advances high-quality, innovative, and relevant agricultural animal research, extension, and education programs through partnerships with public and private organizations and agency counterparts.

#### **Relevant CSREES Strategic Plan Objectives:**

- 2.2 Provide research, education, and extension to increase the efficiency of agricultural production and marketing systems
- 4.2 Develop and deliver research, education, and extension to reduce the number and severity of agricultural pest and disease outbreaks

#### **Knowledge Areas**

- 301 Reproductive Performance of Animals
- 302 Nutrient Utilization in Animals
- 303 Genetic Improvement of Animals
- 304 Animal Genome
- 305 Animal Physiological Processes
- 306 Environmental Stress in Animals
- 307 Animal Production Management Systems
- 308 Improved Animal Products (Before Harvest)
- 311 Animal Diseases
- 312 External Parasites and Pests of Animals
- 313 Internal Parasites in Animals
- 314 Toxic Chemicals, Poisonous Plants and Naturally Occurring Toxins and Other Hazards Affecting Animals
- 315 Animal Welfare, Well Being, and Protection
- 721 Insects and other Pests Affecting Humans
- 722 Zoonotic Diseases and Parasites Affecting Humans

---

<sup>1</sup> While supportive of all CSREES work, Knowledge Area 901 Program and Project Design, and Statistics is linked to Objective 3.1 in the CSREES Strategic Plan for technical reasons. Knowledge Area 901 is not linked to a discrete portfolio.

## Education

**Portfolio Mission:** Support and strengthen institutions' educational programs in the food and agricultural sciences.

**Portfolio Vision:** Highly trained college graduates in the food and agricultural sciences who are globally experienced in applied research and extension and are representative of American's cultural and ethnic diversity.

### **Relevant CSREES Strategic Plan Objectives:**

CSREES education programs build the human resource capacity needed to support all the strategic objectives and education-related actionable strategies appear in each objective of the CSREES Strategic Plan. For technical reasons, Knowledge Area 903 is linked to Objective 3.1 (Provide research, education, and extension to increase the efficiency of agricultural production and marketing systems) in the CSREES Strategic Plan. Also for technical reasons, the performance information for education programs appear in Objective 2.2 (Provide research, education, and extension to increase the efficiency of agricultural production and marketing systems).

### **Knowledge Areas**

903 Communication, Education, and Information Delivery

## Environment and Natural Resources

**Portfolio Mission:** Promote and support research, education, and extension programs that optimize the production of goods and services from working lands while protecting the nation's natural resource base and environment.

**Portfolio Vision:** Healthy watersheds, clean air, high quality soils, sustainable ecosystems and people better informed in their personal and professional endeavors about working lands and the environment.

### **Relevant CSREES Strategic Plan Objectives:**

- 3.1 Expand economic opportunities in rural America by providing research, education, and extension to create opportunities for growth
- 6.1 Ensure clean, abundant water and clean, healthy air
- 6.2 Enhance soil quality to maintain productive working lands
- 6.3 Protect, enhance, and manage forests and rangelands
- 6.4 Protect and enhance wildlife habitat to benefit desired, at-risk, and declining species

### **Knowledge Areas**

- 101 Appraisal of Soil Resources
- 102 Soil, Plant, Water, Nutrient Relationships
- 103 Management of Saline and Sodic Soils and Salinity
- 104 Protect Soil from Harmful Effects of Natural Elements
- 111 Conservation and Efficient Use of Water
- 112 Watershed Protection and Management
- 121 Management of Range Resources
- 122 Management and Control of Forest and Range Fires
- 123 Management and Sustainability of Forest Resources
- 124 Urban Forestry
- 125 Agroforestry
- 131 Alternative Uses of Land

- 132 Weather and Climate
- 133 Pollution Prevention and Mitigation
- 134 Outdoor Recreation
- 135 Aquatic and Terrestrial Wildlife
- 136 Conservation of Biological Diversity
- 141 Air Resource Conservation and Management
- 403 Waste Disposal, Recycling and Reuse
- 405 Drainage and Irrigation Systems and Facilities
- 605 Natural Resource and Environmental Economics

### **Farm Management for Sustainability**

**Portfolio Mission:** The mission of the Farm Management for Sustainability Portfolio is to capture the depth and breadth of research, education and extension activities related to the fundamental health of the farming enterprise regardless of its size, location, or farming methods used; the health and safety of the farm owner, operator or farm worker; the financial condition of the farm family; and types of business enterprises associated with the farm or ranch.

**Portfolio Vision:** To improve the sustainability, profitability and viability of the nation's farms, ranches and working lands and the health and well-being of those families owning, operating or working those lands.

#### **Relevant CSREES Strategic Plan Objectives**

- 2.3 Provide risk management and financial tools for farmers and ranchers
- 3.1 Expand economic opportunities in rural America by providing research, education, and extension to create opportunities for growth

#### **Knowledge Areas**

- 601 Economics of Agricultural Production and Farm Management
- 602 Business Management, Finance, Taxation, and Estate Planning
- 723 Hazards to Human Health and Safety
- 902 Administration of Projects and Programs

#### **Secondary Knowledge Areas**

- 610 Domestic Policy Analysis
- 605 Natural Resource and Environmental Economics
- 607 Consumer Economics
- 801 Individual and Family Resource Management

## **Food Safety**

**Portfolio Mission:** The Food Safety Program supports research, education and extension activities at public and private partner institutions to reduce/eliminate food borne pathogens in the food chain by providing leadership in determining the direction and administering grant funding for such activities.

**Portfolio Vision:** Pathogenic microorganisms and their toxic products, chemical residues, and natural toxins in foods consumed in the US are at lower than infectious doses that cause food borne illness.

### **Relevant CSREES Strategic Plan Objective**

- 4.1 Reduce the incidence of food-borne illnesses and contaminants through research, education, and extension

### **Knowledge Areas**

- 711 Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources
- 712 Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins

## **Markets, Trade, Policy, and International Development**

**Portfolio Mission:** The CSREES Markets, Trade, Policy, and International Development portfolio advances marketing, trade, public policy, and development-related knowledge about agricultural, forestry, natural resource and related products and services to public and private constituencies.

**Portfolio Vision:** Enhance the competitiveness of US agriculture and natural resources worldwide.

### **Relevant CSREES Strategic Plan Objectives**

- 1.2 Support international economic development and trade capacity building
- 2.1 Provide research, education, and extension to expand domestic market opportunities
- 3.1 Expand economic opportunities in rural America by providing research, education, and extension to create opportunities for growth

### **Knowledge Areas**

- 603 Market Economics
- 604 Marketing and Distribution Practices
- 606 International Trade and Development Economics
- 609 Economic Theory and Methods
- 610 Domestic Policy Analysis
- 611 Foreign Policy and Programs

### **Secondary Knowledge Areas**

- 601 Economics of Agricultural Production and Farm Management

## **Nutrition and Healthier Food Choices**

**Portfolio Mission:** The mission of the Nutrition and Healthier Choices Portfolio is to develop the research base for guidance on diet and physical activity and to develop and carry out effective educational and environmental strategies to improve the Nation's health by providing leadership for strong research, education and extension.

**Portfolio Vision:** The vision is active, healthy Americans in healthy communities.

### **Relevant CSREES Strategic Plan Objectives**

- 5.1 Ensure access to nutritious food
- 5.2 Promote healthier eating habits and lifestyles

### **Knowledge Areas**

- 701 Nutrient Composition of Food
- 702 Requirements and Function of Nutrients and Other Food Components
- 703 Nutrition Education and Behavior
- 704 Nutrition and Hunger in the Population

## **Plant Systems**

**Portfolio Mission:** To provide strong research, extension, and educational programs that promote the efficiency of plant production and protection systems that are economically competitive, environmentally sound, and produce high quality and safe products for the American consumer and international markets.

**Portfolio Vision:** A sustainable, globally competitive, consumer driven plant agriculture industry that is based on and supported by high quality, innovative, and relevant research, extension and educational programs developed by USDA through partnerships with universities and the private sector as well as the in-house research, extension, and regulatory programs of the Department.

### **Relevant CSREES Strategic Plan Objectives**

- 2.2 Provide research, education, and extension to increase the efficiency of agricultural production and marketing systems
- 4.2 Develop and deliver research, education, and extension to reduce the number and severity of agricultural pest and disease outbreaks

### **Knowledge Areas**

- 201 Plant Breeding, Genome, Genetics, and Genetic Mechanisms
- 202 Plant Genetic Resources and Biodiversity
- 203 Plant Biological Efficiency and Abiotic Stresses Affecting Plants
- 204 Plant Product Quality and Utility (Preharvest)
- 205 Plant Management Systems
- 206 Basic Plant Biology
- 211 Insects, Mites, and Other Arthropods Affecting Plants
- 212 Pathogens and Nematodes Affecting Plants
- 213 Weeds Affecting Plants
- 214 Vertebrates, Mollusks, and Other Pests Affecting Plants
- 215 Biological Control of Pests Affecting Plants
- 216 Integrated Pest Management Systems

### ***Processing, Engineering and Technology for Food and Bio Products***

***Portfolio Mission:*** Support strong research, education, and extension programs to commercialize new processes and new or improved food and bioproducts for a sustainable agriculture through engineering, new technology and biological science.

***Portfolio Vision:*** Food and bioproducts through sustainable agriculture production and processing systems using new and improved technology.

#### ***Relevant CSREES Strategic Plan Objective***

2.1 Provide research, education, and extension to expand domestic market opportunities

#### ***Knowledge Areas***

- 401 Structures, Facilities, and General Purpose Farm Supplies
- 402 Engineering Systems and Equipment
- 404 Instrumentation and Control Systems
- 501 New and Improved Food Processing Technologies
- 502 New and Improved Food Products
- 503 Quality Maintenance in Storing and Marketing Food Products
- 504 Home and Commercial Food Service
- 511 New and Improved Non-Food Products and Processes
- 512 Quality Maintenance in Storing and Marketing Non-Food Products

### ***Quality of Life in Rural Areas***

***Portfolio Mission:*** The mission of the Quality of Life in Rural Areas Portfolio is two-pronged: to facilitate informed decisions affecting people and communities through integrated research, education, and extension; and to strengthen families, promote positive youth development, and encourage healthy living.

***Portfolio Vision:*** Enhanced quality of life in rural America.

#### ***Relevant CSREES Strategic Plan Objectives***

- 3.1 Expand economic opportunities in rural America by providing research, education, and extension to create opportunities for growth
- 3.2 Provide research, education, and extension to improve the quality of life in rural areas

#### ***Knowledge Areas***

- 607 Consumer Economics
- 608 Community Resource Planning and Development
- 724 Healthy Lifestyle
- 801 Individual and Family Resource Management
- 802 Human Development and Well-Being
- 803 Sociological and Technological Change Affecting Individuals, Families, and Communities
- 804 Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures
- 805 Community Institutions, Health, and Social Services
- 806 Youth Development