

CROSSWALK BETWEEN THE CSREES STRATEGIC PLAN FOR 2007-2012 AND PORTFOLIOS¹ OF PROGRAMS

2008 REVIEW CYCLE

MARKETS, TRADE, POLICY, AND INTERNATIONAL DEVELOPMENT

Relevant Objective - 1.2: Support international economic development and trade capacity building

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

Knowledge Areas

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

Secondary Knowledge Areas

- 601 Economics of Agricultural Production and Farm Management

FARM MANAGEMENT FOR SUSTAINABILITY

Relevant Objective - 2.3: Provide risk management and financial tools farmers and ranchers

Relevant Objective - 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
- 723 Hazards to Human Health and Safety
- 902 Administration of Projects and Programs

Secondary Knowledge Areas

- 602 Business Management, Finance, Taxation, and Estate Planning
- 610 Domestic Policy Analysis
- 605 Natural Resource and Environmental Economics

¹ 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.

- 607 Consumer Economics
- 801 Individual and Family Resource Management

ANIMAL SYSTEMS

Relevant Objective - 2.2: Provide research, education, and extension to increase the efficiency of agricultural production and marketing systems

Relevant Objective - 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

KNOWLEDGE AND OPPORTUNITY FOR COMMUNITIES AND ECONOMIC DEVELOPMENT

Relevant Objective - 3.1: Expand economic opportunities in rural America by providing research, education, and extension to create opportunities for growth²

Knowledge Areas

- 134 Outdoor Recreation
- 602 Business Management, Finance, Taxation, and Estate Planning
- 608 Community Resource Planning and Development
- 609 Economic Theory and Methods
- 803 Sociological and Technological Change Affecting Individuals, Families, and Communities

² 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.

Secondary Knowledge Areas

- 607 Consumer Economics
- 801 Individual and Family Resource Management
- 805 Community Institutions, Health, and Social Services
- 902 Administration of Projects and Programs

EDUCATION

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

Relevant Objective - 6.1: Ensure clean, abundant water and clean, healthy air

Relevant Objective - 6.2: Enhance soil quality to maintain productive working lands

Relevant Objective - 6.3: Protect, enhance, and manage forests and rangelands

Relevant Objective - 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

- 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

PROCESSING, ENGINEERING AND TECHNOLOGY FOR FOOD AND BIO PRODUCTS

Relevant 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

FOOD SAFETY

Relevant 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

NUTRITION AND HEALTHIER FOOD CHOICES

Relevant Objective - 5.1: Ensure access to nutritious food

Relevant Objective - 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

Relevant Objective - 2.2: Provide research, education, and extension to increase the efficiency of agricultural production and marketing systems

Relevant Objective - 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

QUALITY OF LIFE IN RURAL AREAS

Relevant Objective - 3.2: Provide research, education, and extension to improve the quality of life in rural areas

Knowledge Areas

- 607 Consumer Economics
- 724 Healthy Lifestyle
- 801 Individual and Family Resource Management
- 802 Human Development and Well-Being
- 804 Human Environmental Issues Concerning Apparel, Textiles, and Residential and Commercial Structures
- 805 Community Institutions, Health, and Social Services
- 806 Youth Development