

APPENDIX E
Format for Reporting Projected Participation in a Multistate Research Project

RESEARCH: Please complete the "CRIS Codes" and "Personnel %" sections
 1. Using the attached set of CRIS classification codes, select the Knowledge Area(s) (KA), Subject(s) of Investigation (SOI), and Field(s) of Science (FOS) codes which best describe the objective(s) you will be working on.

2. Note the percentage of time commitment (your best estimate) by Scientists Years (SY) (not less than 0.1 SY), Professional Years (PY), and Technical Years (TY);

EXTENSION: Please complete if applicable
 1. For extension commitment, indicate FTE (must be ≤ 1.0)

2. Using the attached set of CRIS classification codes, select one or more "KA" (Knowledge Area) which best describe the objective(s) you will be working on.

OBJECTIVES:
 1. Place a check mark underneath the number of each of the objectives you will be working on.

Project or Activity Designation and Number (if applicable): _____
 Project or Activity Title: _____

Participant Name	Department	RESEARCH							EXTENSION		OBJECTIVES					
		CRIS Codes			Personnel %'s				FTE	KA(s)	1	2	3	4	5	
		KA	SOI	FOS	SY	PY	TY									

SCIENTIST YEAR (SY)

This is the portion of time for scientists (Assistant Professor, Assistant Scientist, and above) who are responsible for creative scientific study, thought, originality, judgments, and accomplishments directly assignable to the activity reported.

PROFESSIONAL YEAR (PY)

This is the portion of time for persons who hold positions in professional categories and who are assigned to research activities of the project. Such professionals usually hold a bachelors and/or masters degree(s). Graduate students, by virtue of their degree and acceptance into graduate school may be categorized as "professionals."

TECHNICAL YEAR (TY)

This is the portion of time for technicians, aids, and laboratory assistants assigned in support of a project or an activity.

KACS (Knowledge Area Classification System):

Click on any of the following topics to skip down to that section.

[TOPIC I. NATURAL RESOURCES AND ENVIRONMENT](#)
[TOPIC II. PLANTS AND THEIR SYSTEMS](#)
[TOPIC III. ANIMALS AND THEIR SYSTEMS](#)
[TOPIC IV. AGRICULTURAL, NATURAL RESOURCE, AND BIOLOGICAL ENGINEERING](#)
[TOPIC V. FOOD AND NON-FOOD PRODUCTS: DEVELOPMENT, PROCESSING, QUALITY, AND DELIVERY](#)
[TOPIC VI. ECONOMICS, MARKETS, AND POLICY](#)
[TOPIC VII. HUMAN NUTRITION, FOOD SAFETY, AND HUMAN HEALTH AND WELL-BEING](#)
[TOPIC VIII. FAMILIES, YOUTH, AND COMMUNITIES](#)
[TOPIC IX. PROGRAM AND PROJECT SUPPORT AND ADMINISTRATION, EDUCATION AND COMMUNICATION](#)

TOPIC I. NATURAL RESOURCES AND ENVIRONMENT

(Click on any topic code to see the full text description)

SOIL

- [101](#) Appraisal of Soil Resources
- [102](#) Soil, Plant, Water, and Nutrient Relationships
- [103](#) Management of Saline and Sodic Soils and Salinity
- [104](#) Protect Soil from Harmful Effects of Natural Elements

(Click on any topic code to see the full text description)

WATER

- [111](#) Conservation and Efficient Use of Water
- [112](#) Watershed Protection and Management

(Click on any topic code to see the full text description)

FOREST AND RANGE RESOURCES

- [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

(Click on any topic code to see the full text description)

NATURAL RESOURCES, GENERAL

- [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

(Click on any topic code to see the full text description)

AIR

- [141](#) Air Resource Protection and Management

TOPIC II. PLANTS AND THEIR SYSTEMS

(Click on any topic code to see the full text description)

PLANT PRODUCTION

- [201](#) Plant Genome, Genetics, and Genetic Mechanisms
- [202](#) Plant Genetic Resources
- [203](#) Plant Biological Efficiency and Abiotic Stresses Affecting Plants
- [204](#) Plant Product Quality and Utility (Preharvest)
- [205](#) Plant Management Systems
- [206](#) Basic Plant Biology

(Click on any topic code to see the full text description)

PLANT PROTECTION

- [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

TOPIC III. ANIMALS AND THEIR SYSTEMS

(Click on any topic code to see the full text description)

ANIMAL PRODUCTION

- [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 Management Systems
- [308](#) Improved Animal Products (Before Harvest)

(Click on any topic code to see the full text description)

ANIMAL PROTECTION

- [311](#) Animal Diseases
- [312](#) External Parasites and Pests of Animals
- [313](#) Internal Parasites in Animals
- [314](#) Toxic Chemicals, Poisonous Plants, Naturally Occurring Toxins, and Other Hazards Affecting Animals
- [315](#) Animal Welfare/Well-Being and Protection

TOPIC IV. AGRICULTURAL, NATURAL RESOURCE, AND BIOLOGICAL ENGINEERING

(Click on any topic code to see the full text description)

- [401](#) Structures, Facilities, and General Purpose Farm Supplies
- [402](#) Engineering Systems and Equipment
- [403](#) Waste Disposal, Recycling, and Reuse
- [404](#) Instrumentation and Control Systems
- [405](#) Drainage and Irrigation Systems and Facilities

TOPIC V. FOOD AND NON-FOOD PRODUCTS: DEVELOPMENT, PROCESSING, QUALITY, AND DELIVERY

(Click on any topic code to see the full text description)

FOOD

- [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

(Click on any topic code to see the full text description)

NON-FOOD

- [511](#) New and Improved Non-Food Products and Processes
- [512](#) Quality Maintenance in Storing and Marketing Non-Food Products

TOPIC VI. ECONOMICS, MARKETS, AND POLICY

(Click on any topic code to see the full text description)

- [601](#) Economics of Agricultural Production and Farm Management
- [602](#) Business Management, Finance, and Taxation
- [603](#) Market Economics
- [604](#) Marketing and Distribution Practices
- [605](#) Natural Resource and Environmental Economics
- [606](#) International Trade and Development
- [607](#) Consumer Economics
- [608](#) Community Resource Planning and Development
- [609](#) Economic Theory and Methods
- [610](#) Domestic Policy Analysis
- [611](#) Foreign Policy and Programs

TOPIC VII. HUMAN NUTRITION, FOOD SAFETY, AND HUMAN HEALTH AND WELL-BEING

(Click on any topic code to see the full text description)

HUMAN NUTRITION

- [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

(Click on any topic code to see the full text description)

FOOD SAFETY

- [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

(Click on any topic code to see the full text description)

HUMAN HEALTH

- [721](#) Insects and Other Pests Affecting Humans
- [722](#) Zoonotic Diseases and Parasites Affecting Humans
- [723](#) Hazards to Human Health and Safety
- [724](#) Healthy Lifestyle

TOPIC VIII. FAMILIES, YOUTH, AND COMMUNITIES

(Click on any topic code to see the full text description)

- [801](#) Individual and Family Resource Management

[802](#) Human Development and Family 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

TOPIC IX. PROGRAM AND PROJECT SUPPORT AND ADMINISTRATION, EDUCATION AND COMMUNICATION

(Click on any topic code to see the full text description)

[901](#) Project and Program Design, and Statistics

[902](#) Administration of Projects and Programs

[903](#) Communication, Education, and Information Delivery

SUBJECT OF INVESTIGATION identifies the commodity, product, organism, entity, resource, or technology not related to specific commodities or resources, that represents the intended target or focus of the research or for which the application of the research is intended. Many projects may require entry of more than one Subject per RPA to adequately describe the research target. A separate line should be used on the AD-417 form to enter each Subject of Investigation classification code and RPA classification code that is necessary to adequately classify the project.

Subject of Investigation:

Use your browser's FIND button for specific subjects:

Soil and Land

0110 Soil

0120 Land

0199 Soil and land, general

Water

0210 Water resources

Watersheds and River Basins

0310 River basins

0320 Watersheds

0330 Wetland and riparian systems

0399 Watersheds and river basins, general

Atmosphere

0410 Air

0420 Weather

0430 Climate

0440 Solar radiation

0499 Atmosphere, general/other

Recreational Resources

0510 Wilderness

0520 Campgrounds and picnic areas

0530 Parks and urban green space

0599 Recreational resources, general/other

Trees, Forests, and Forest Products (excluding edible tree nut crops)

0610 Conifer forests of the North

0611 Conifer forests of the South

0612 Conifer forests of the West

0613 Mixed conifer-broadleaf forests

0620 Broadleaf forests of the North

0621 Broadleaf forests of the South

0622 Broadleaf forests of the West

0630 Chaparral and shrub lands

0640 Tropical forests

0650 Wood and wood products

0660 Paper and pulp derived products

0670 Short rotation woody crops, including holiday trees

0680 Other products of the forest

0699 Trees, forests, and forest products, general

Rangelands and Grasslands

0710 Desert and semidesert shrub land and shinnery

0720 Pinyon-juniper

0730 Mountain grasslands, meadow, and alpine
0780 Grasslands, other
0790 Rangelands, other
0799 Rangelands and grasslands, general
Wildlife and Natural Fisheries Management, Endangered Species
0810 Finfish
0811 Shellfish
0812 Fish habitats
0819 Natural fisheries, other
0820 Wild birds
0830 Wild animals
0840 Fur-bearing animals
0850 Wildlife habitats
0860 Endangered species
0899 Wildlife and natural fisheries, general/other
Citrus
0910 Grapefruit
0920 Orange
0930 Lemon
0999 Citrus, general/other
Tropical/Subtropical Fruit
1010 Banana
1020 Pineapple
1030 Papaya
1040 Mango
1050 Date
1060 Kiwi
1099 Tropical/subtropical fruit, general/other
Deciduous and Small Fruits
1110 Apple
1111 Apricot
1112 Cherry
1113 Nectarine
1114 Peach
1115 Pear
1116 Plum
1119 Deciduous tree fruits, other
1120 Blueberry
1121 Cranberry
1122 Strawberry
1123 Raspberry
1129 Berries and cane fruits, other
1130 Table grapes
1131 Wine grapes
1132 Raisin grapes
1139 Grapes, other
1199 Deciduous and small fruits, general/other
Edible Tree Nuts
1210 Filbert
1211 Pecan
1212 Almond
1213 Walnut

1219 Edible tree nuts, general/other

Vegetables

1310 Potato

1410 Beans (dry)

1411 Beans (fresh, fresh-processed)

1412 Peas (dry)

1413 Peas (fresh, fresh-processed)

1414 Lentil

1419 Leguminous vegetables, other

1420 Melons (includes cantaloupe, muskmelon, watermelon)

1421 Cucumber

1429 Cucurbits, other (includes pumpkin, squash, gourd)

1430 Greens & leafy vegetables (endive, lettuce, spinach, turnipgreens, celery, rhubarb, parsley, asparagus)

1440 Cole crops (cabbage, kale, broccoli, brussels sprouts, cauliflower, kohlrabi)

1450 Sweet potato

1451 Onion, garlic, leek, shallot

1452 Carrot

1453 Yam

1454 Taro

1455 Cassava (or manioc)

1459 Rhizomes, tubers, bulbs, and root crops, general/other (for potato use 1310)

1460 Tomato

1461 Peppers

1462 Eggplant

1469 Solanaceous and related crops, general/other (for potato use 1310)

1470 Mushrooms and other edible fungi

1480 Sweetcorn

1499 Vegetables, general/other

Grain Crops

1510 Corn (for sweetcorn use 1480)

1511 Popcorn

1520 Grain sorghum

1530 Rice

1540 Hard red winter wheat

1541 Hard red spring wheat

1542 Soft red wheat

1543 Soft white wheat (includes club, western)

1544 Hard white wheat

1545 Durum wheat

1549 Wheat, other

1550 Barley

1560 Oats

1570 Rye

1599 Grain crops, general/other (includes buckwheat, millet, triticale)

Pasture and Forage Crops

1610 Pasture

1620 Warm season perennial grasses (includes dallisgrass, bluestems, bermudagrass)

1621 Cool season perennial grasses (bluegrass, bromegrass, fescue, orchardgrass, perennial ryegrass, timothy, wheatgrass)

1629 Perennial grasses, other

1630 Summer annual grasses (forage sorghums, sudangrass, sorghum-sudangrass hybrids)

1631 Winter annual grasses (includes annual ryegrass)
1639 Annual grasses, other
1640 Alfalfa
1641 Trefoil
1642 Red clover
1643 Crownvetch
1644 Winter annual legumes (includes subterranean clover, arrowleaf clover)
1649 Forage legumes, other
1699 Pasture and forage crops, general/other
Fiber Crops
1710 Upland cotton
1711 Long fiber cotton
1719 Cotton, other
1720 Kenaf
1730 Hemp
1740 Ramie
1750 Agave
1799 Fiber crops, general/other
Oilseed and Oil Crops
1810 Cottonseed (for meal, oil, etc.)
1820 Soybean
1830 Peanut
1840 Castor
1841 Crambe
1842 Flax
1843 Safflower
1844 Sunflower
1845 Jojoba
1846 Coconut
1847 Palm
1848 Canola
1849 Cuphea
1850 Lesquerella
1851 Meadowfoam
1852 Rape
1853 Sesame
1854 Chinese tallow
1855 Tung
1899 Oilseed and oil crops, general/other
Tobacco
1910 Flue-cured tobacco
1920 Burley tobacco
1930 Cigar-type tobacco
1999 Tobacco, general/other
Sugar Crops
2010 Sugar beet
2020 Sugar cane
2030 Sweet sorghum
2099 Sugar crops, general/other
Ornamentals and Turf
2110 Ornamental trees and shrubs
2120 Herbaceous perennials and decorative greens

2121 Cut flowers, foliage, and greens
2122 Potted plants
2123 Bedding/garden plants
2129 Florist crops, other
2130 Turf (bentgrass, bermudagrass, bluegrass, dichondra, fescue, ryegrass, zoysia)
2140 Ground covers
2150 Aquatic plants
2160 Arboreta and botanical gardens
2199 Ornamentals and turf, general/other (includes cacti)
Miscellaneous and New Crops
2210 Chemurgic crops
2220 Medicinal crops, non-narcotic
2221 Narcotic plants
2230 Hops
2231 Mint
2232 Coffee
2233 Cocoa
2234 Tea
2235 Herbs and spices
2239 Flavoring and beverage plants, other
2240 Guayule
2241 Hevea
2242 Gums
2249 Rubber, gum, and resin plants, other
2299 Miscellaneous and new crops, general/other
2300 Weeds
Plants
2410 Cross-commodity research--multiple crops
2420 Noncrop plant research
2499 Plant research, general
Bees, Honey, and Other Pollinators
3010 Honey bees
3020 Honey and honey products
3030 Non-honey apiary products
3090 Other Pollinators
3099 Bees, honey, and other pollinators, general
Invertebrates
3110 Insects
3120 Spiders, mites, ticks, and other arthropods
3130 Nematodes
3199 Invertebrates, general/other
Poultry
3210 Egg-type chicken, live animal
3220 Meat-type chicken, live animal
3230 Turkey, live animal
3240 Duck and goose, live animal
3250 Ratites (e.g., ostrich, emu, rhea), live animal
3260 Poultry meat
3270 Eggs
3280 Other poultry products
3299 Poultry, general/other
Beef Cattle

3310 Beef cattle, live animal
3320 Meat, beef cattle
3330 Other beef cattle products
3399 Beef cattle, general/other
Dairy Cattle
3410 Dairy cattle, live animal
3420 Butter
3430 Cheese
3440 Meat, dairy cattle
3450 Milk
3460 Ice cream
3470 Other dairy cattle products
3499 Dairy cattle, general/other
Swine
3510 Swine, live animal
3520 Meat, swine
3530 Other swine products
3599 Swine, general/other
Sheep and Wool
3610 Sheep, live animal
3620 Meat, sheep
3630 Wool fiber
3699 Sheep and wool, general/other
Cultured Aquatic Animals
3710 Catfish
3711 Trout
3712 Salmon
3713 Striped bass
3714 Tilapia
3715 Baitfish (minnows and shiners)
3716 Ornamental finfish
3719 Other cultured finfish
3720 Crawfish
3721 Marine shrimp
3722 Freshwater shrimp
3723 Oysters
3724 Clams and mussels
3725 Ornamental shellfish
3729 Other cultured shellfish
3799 Cultured aquatic animals, general/other
Other Animals
3810 Horses, ponies, and mules
3820 Goats, meat and mohair
3830 Pets (companion animals)
3840 Laboratory animals
3899 Other animals, general
Animals
3910 Cross-commodity research--multiple animal species
3999 Animal research, general
Microorganisms
4010 Bacteria
4020 Fungi (includes yeast)

4030 Viruses
4040 Viroids, mycoplasmas, spiroplasmas, etc.
4050 Protozoa
4099 Microorganisms, general/other

Food
5010 Food (not readily associated with specific plant and animal products)

Clothing and Textiles
5110 Clothing/apparel
5120 Textiles
5199 Clothing and textiles, general

Agricultural Supplies
5210 Fertilizers
5220 Pesticides (includes herbicides, insecticides, fungicides, etc.)
5230 Feed and feed additives
5240 Seeds and other plant propagules
5299 Agricultural supplies, general/other

Structures, Facilities, and Equipment
5310 Machinery and equipment
5320 Houses (human residences), furniture, household equipment, non-textile furnishings
5330 Farm structures and related facilities
5340 Nonfarm structures and related facilities, those used in marketing, storing, processing, distributing, recreation
5350 Domestic and community water supply facilities and systems
5360 Drainage and irrigation facilities and systems
5370 Sewage and waste disposal facilities and systems
5399 Structures, facilities, and equipment, general/other

People and Communities
6010 Individuals (as workers, consumers, members of society)
6020 The family and its members
6030 The farm as an enterprise
6040 Real estate
6050 Communities, areas, and regions, including states and their institutions and organizations
6099 People and communities, general/other

Economy
6110 Economy of the United States and sectors thereof
6120 International economy and sectors thereof
6199 Economy, general/other

Marketing
6210 Farmer cooperatives
6220 Marketing, processing, and supply firms other than cooperatives
6230 Marketing systems and sectors thereof
6299 Marketing, general/other

Other technologies
7010 Biological Cell Systems
7110 Research on research management (not research management per se)

Research Equipment and Methods
7210 Remote sensing equipment and technology
7220 Sensory evaluation/analysis methods (human senses)
7299 Research equipment and methods, general/other
7310 Experimental design and statistical methods
7410 General technology

FIELD OF SCIENCE (FOS) allows the classifier to identify the specific science or technology that constitutes the basic mechanism of the investigation. Here, as in the other classification categories, many projects may require entry of more than one FOS per RPA and Subject to adequately classify the project. A separate line should be used on the AD-417 form to enter each FOS classification code, Subject classification code, and RPA classification code that is necessary to adequately classify the project.

Field of Science:

Biological

- 1000 Biochemistry and biophysics
- 1010 Nutrition and metabolism
- 1020 Physiology
- 1030 Cellular biology
- 1040 Molecular biology
- 1050 Developmental biology
- 1060 Biology (whole systems)
- 1070 Ecology
- 1080 Genetics (includes breeding)
- 1090 Immunology
- 1100 Bacteriology
- 1101 Virology
- 1102 Mycology
- 1103 Other microbiology (includes protozoology, phycology, etc.)
- 1110 Parasitology
- 1120 Nematology
- 1130 Entomology and acarology
- 1140 Weed Science
- 1150 Toxicology
- 1160 Pathology
- 1170 Epidemiology
- 1180 Pharmacology
- 1190 Limnology

Physical

- 2000 Chemistry
- 2010 Physics
- 2020 Engineering
- 2030 Geology
- 2040 Mineralogy
- 2050 Hydrology
- 2060 Geography
- 2061 Pedology
- 2070 Meteorology and climatology
- 2080 Mathematics and computer sciences
- 2090 Statistics, econometrics, and biometrics

Social and Behavioral

- 3000 Anthropology
- 3010 Economics
- 3020 Education
- 3030 Information and communication
- 3040 History
- 3050 Law

3060 Political science
3070 Psychology
3080 Sociology
3090 Sensory science (human senses)
3100 Management
3110 Art and architecture
3111 Landscape architecture