Agency Activity Inventory
by Agency
Appropriation Period: FY 2009-10

Agency: P20 - Clemson PSA

1474 Natural Resources and Environmental Research and Education: Master Wildlifer/Master Naturalist

Conducts statewide Master Wildlife programs to improve wetland and watershed management as a means of preserving water quality and wetland and aquatic wildlife habitat. Conducts statewide Master Naturalist programs to increase the public’s understanding and awareness of natural resource management and to build a network of natural resource ambassadors. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the quality of South Carolina's natural resources
Strategy: Provide for the response and prevention of irresponsible human behavior or non-human natural resource destruction.

FY 2009-10

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Other Fund - Subfund No. & Title: 3035-Op Revenue
Budgetary Program No.: IV, VIIC

Expected Results:
Develop and deliver statewide Master Wildlifer short courses for forest and farm owners, and standardized training for Master Naturalists, SC Department of Natural Resources biologists and administrators, and other interested agencies. Explore alternative methods of delivering Master Wildlifer, primarily over satellite and as a web-based course. Develop local chapters and conduct SC Master Naturalist training programs.

Outcome Measures:
Develop and deliver education programs on Master Wildlifer and Master Naturalist for farm and forest land owners, county Extension agents and potential volunteers to preserve natural resources and wildlife habitats. Master Wildlifer programs were conducted for 100 landowners. Master Naturalist volunteers provided 7,945 hours of service removing invasive species such as beach vitex, monitoring water quality, and assisting state park rangers, primarily in coastal and upstate counties.
1475 Rural Community Enhancement and Improvement

Engage in rural community enhancement and improvement activities that are linked to community image, sustainable economic development, and improved quality of life. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**Statewide Result Area:** Improve the conditions for economic growth

**Strategy:** Provide for a more unified and focused effort in the marketing of our State's assets.

**Expected Results:**
Develop and conduct community improvement programs, such as the SC Design Arts Partnership, a collaborative effort by Clemson University, the SC Downtown Development Association, and the SC Budget & Control Board that helps rural communities design improvements for economic revitalization. Engage citizens in agritourism and agribusiness development projects. Facilitate the work of local task forces and groups that formulate action plans and policies. Work with appropriate agencies to achieve information technology equity for rural areas.

**Outcome Measures:**
Develop and deliver education programs on community enhancement for citizens engaged in economic and tourism development, nonprofit organization boards and groups. Extension programs reached 857 participants, including planning charities conducted in Chapin and Ninety-Six, and an economic development strategic plan developed and implemented in Horry County. Research focused on data analyses and program assessment for rural economic development, particularly in the agribusiness and agritourism sector.

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**Agency:** P20 - Clemson PSA

**Functional Group:** Economic Development & Natural Resources

1476 Government and Public Affairs Research and Education

Conducts applied research and education in public policy areas to promote discussion and action on critical issues facing South Carolina, the Southeast, and the nation. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**Statewide Result Area:** Improve the conditions for economic growth

**Strategy:** Provide for resources and infrastructure for a more skilled and prepared workforce.
### Agency Activity Inventory
by Agency

**Appropriation Period: FY 2009-10**

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**Other Fund - Subfund No. & Title:**  
3035-Op Revenue

**Budgetary Program No.:** IV, VIIC

**Expected Results:**
Distribute information on issues affecting South Carolina today and those that will be important in the future via the Jim Self Center on the Future web site. Present information on educational finance and operational policy to appropriate state and local leaders to enhance the public debate. Expand the civic discussion in South Carolina and increase public participation in governmental operations through partnerships and training sessions.

**Outcome Measures:**
Develop and deliver education programs to community, business, and citizen organizations on research developed at the Thurmond Institute. Specific applications include the costs of growth, fiscal analyses, regional cost/benefit analyses, state issues analyses, and assessments of the state's economic well-being.

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**Agency:** P20 - Clemson PSA  
**Functional Group:** Economic Development & Natural Resources

**1477 Agricultural Education Teachers' Salaries (pass-thru)**

Provide statewide leadership for agricultural education programs in the public schools for South Carolina. Agricultural Education prepares students for successful careers and a lifetime of informed choices in the global agriculture, food, fiber and natural resources systems. The program provides Future Farmers of America (FFA) and adult education activities, such as leadership development, work experiences, internship and job training. Proviso 89.41 of the FY 2010 Appropriations Act authorizes Clemson-PSA to transfer these funds to the Department of Education for Agriculture Education teacher salary adjustments.

**Statewide Result Area:** Improve K-12 student performance

**Strategy:** Provide the public clear, specific, and timely data about the effectiveness and competitiveness of the public schools in the state. This strategy will include standardizing and simplifying the graduation rate calculation so that it reflects high school completion rates. Additionally, parents will be provided with child-specific performance data.

**FY 2009-10**
Agency Activity Inventory
by Agency

Appropriation Period: FY 2009-10

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Other Fund - Subfund No. & Title: 4973-EIA

Budgetary Program No.: IV

Expected Results:
Coordinate and structure agricultural education programs, Future Farmers of America (FFA), and the SC Association of Young Farmers activities in the state’s public schools.

Outcome Measures:
Conduct agricultural education programs in SC high schools. Serve over 10,000 students who are in agricultural education programs; of that number 5,410 are members of Future Farmers of America (FFA). In addition there were 53 Young Farmer and Agribusiness Chapters located in 33 counties throughout the state with a total membership of 1109.

Agency: P20 - Clemson PSA

Functional Group: Economic Development & Natural Resources

1478 Administration

Administration for Clemson University-PSA is an aspect of our organization that is constantly monitored for indications of its efficiencies and effectiveness. Our organizational functions are statewide and highly diversified to meet the requirements of research and Extension. Our research facilities are in numerous locations on-campus and across the state. Additionally, much of our administrative functions are focused on generating outside research funding. The regulatory functions of PSA require very precise management of records and documents for federal and state regulations. These functions are in addition to the traditional administrative functions of account management, clerical support, building maintenance, utilities and communication costs, auditing, and accountability. Section 46-7-90 of the SC Code of Laws authorizes Clemson-PSA to receive and expend federal funds provided to the state's land-grant colleges.

Statewide Result Area: Improve the quality of South Carolina's natural resources

Strategy: Administration

FY 2009-10

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Other Fund - Subfund No. & Title: 3035-Op Revenue
Agency Activity Inventory
by Agency
Appropriation Period: FY 2009-10

Budgetary Program No.: I A/B, IIA/B, III, IV, VIIC

Expected Results:
The administration functions of our division are expected to give our organization: An adequate and safe work environment to carry out state-of-the-art research, development and information dissemination; Support for all state, federal and university mandated compliance regulations for animals, plants and human research; A fully compliant financial audit for federal, state or institutional requirements.

Outcome Measures:
Increase the rate of return on state dollars from outside funding sources for research and outreach activities. Continue to increase the effectiveness and efficiency of all functions of PSA. Maintain financial audit findings in compliance with federal, state or institution regulations. Record all relevant data in support of regulatory activities across the state to ensure a safe and adequate food and water supply and to address environmental issues.

Agency: P20 - Clemson PSA

1479  Distance Education: Radio Productions

Delivers information on Clemson research and education programs to targeted and mass audiences. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the quality of South Carolina's natural resources

Strategy: Provide for the protection of outcome-driven policies / incentives / programs aimed at ecological sustainability.

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Other Fund - Subfund No. & Title:
3035-Op Revenue

Budgetary Program No.: III, IV, VIIC

Expected Results:
Produce radio programs and a supporting web site to deliver research and education information.

Outcome Measures:
Deliver educational information to an average of 20,000 listeners through public radio programs.
Agency Activity Inventory
by Agency
Appropriation Period: FY 2009-10

Agency: P20 - Clemson PSA

1480 Distance Education: Television, Web and Print Productions

Delivers information on Clemson research and education programs to targeted and mass audiences. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the quality of South Carolina's natural resources

Strategy: Provide for the protection of outcome-driven policies / incentives / programs aimed at ecological sustainability.

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Other Fund - Subfund No. & Title:

Budgetary Program No.: III, IV, VIIC

Expected Results:
Produce television programs and web sites to deliver research and education information; produce supporting print materials as needed.

Outcome Measures:
Maximize efficiencies in educational programs by using mass media outlets and the web-based federal eXtension initiative.

Bioengineering Alliance

The SC Bioengineering Alliance is a state-mandated collaborative effort among Clemson University, the University of South Carolina, and the Medical University of South Carolina to promote, strengthen, and develop biomedical engineering education,
Agency Activity Inventory  
by Agency  
Appropriation Period: FY 2009-10

research, and technology transfer across the state to advance basic biomedical research and medical care, enhance bioengineering research and education at the participating universities, and support the regional economy. The Bioengineering Alliance was established as a separate program within Clemson PSA by the FY 1990 - 1991 General Appropriations Act.

Statewide Result Area: Improve the state's post-secondary education system and cultural resources

Strategy: Provide for employability and quality of life opportunities for our graduates.

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Other Fund - Subfund No. & Title:

Budgetary Program No.: VI, VIIC

Expected Results:
Foster communication among organizations and academic disciplines to identify and pursue opportunities for collaborative research, education, and technology transfer. Develop programs that share facilities, equipment, and expertise across the state to advance healthcare, particularly in tissue engineering and regenerative medicine.

Outcome Measures:
No activity in 09-10

funding eliminated in 08-09 budget cuts

Agency: P20 - Clemson PSA  
Functional Group: Economic Development & Natural Resources

1482 Sustainable Agricultural Production Systems: Horticultural Crops

Conducts statewide research and education programs to improve the production efficiency, environmental sensitivity, and profitability of horticultural crop management systems. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the quality of South Carolina's natural resources

Strategy: Provide for the marketing and enhancement of the economic and social value of SC's natural resources.

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Agency Activity Inventory  
by Agency  
Appropriation Period: FY 2009-10

Other Fund - Subfund No. & Title:  
3035-Op Revenue

Budgetary Program No.: III, IV, VIIC

Expected Results:
Conduct research and education programs to: Improve profitability of horticultural cropping systems, Reduce negative environmental impacts of horticultural cropping systems, and Encourage producers to adopt new horticultural production systems.

Outcome Measures:
Develop and deliver education programs on horticultural crop production for agricultural producers and Extension personnel. 553,888 acres were farmed using integrated crop management and 125,256 acres were planted in high-value crops such as kohlrabi, cilantro and leeks. Extension programs support the S.C. Grown initiative of the state Agriculture Department, including muscadine vineyards, fruits, vegetables and herbs. Ongoing research seeks to improve disease and pest management practices, reduce pesticide usage, increase production of high-value niche crops, and improve turfgrass management strategies. Research generated 4 disclosures and 1 patent application.

Agency: P20 - Clemson PSA  
Functional Group: Economic Development & Natural Resources

1483  The South Carolina Institute for Energy Studies  
The South Carolina Institute for Energy Studies (SCIES) is a state chartered research and development organization established in 1984 via the FY 1984 - 1985 General Appropriations Act. SCIES is administratively housed at Clemson University, reporting to the Vice President for Research.

Statewide Result Area: Improve the quality of South Carolina's natural resources

Strategy: Provide for the protection of outcome-driven policies / incentives / programs aimed at ecological sustainability.

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Other Fund - Subfund No. & Title:  

Budgetary Program No.: V, VIIC

Expected Results:
Through interaction with all departments at Clemson University, all universities within South Carolina, state
Agency Activity Inventory
by Agency

Appropriation Period: FY 2009-10

agencies, federal agencies, and private industry throughout the nation: Promote energy research and development in and for the state; Transfer energy technology developed by others to South Carolina applications; Contribute to national energy issues in areas of excellence; Promote state-wide energy education activities.

**Outcome Measures:**
No activity in 09-10

funding eliminated in 08-09 budget cuts

Agency: P20 - Clemson PSA

Functional Group: Economic Development & Natural Resources

1484 Rural Community Leadership Development

Conducts Palmetto Leadership training that provides community leadership development training, facilitates strategic planning for economic development, public issues education, youth leadership, and serves as a collaborative agency with other leadership program sponsors. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the conditions for economic growth

Strategy: Provide for a more unified and focused effort in the marketing of our State's assets.

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Other Fund - Subfund No. & Title:
3035-Op Revenue

Budgetary Program No.: IV, VIIC

Expected Results:
Develop and deliver education programs on leadership, team-building, strategic planning, and effective operations for civic and community leaders and nonprofit organizations. Promote participation in collaborative task forces to build leadership skills to address statewide economic and community development issues. Conduct youth leadership programs and workshops to enhance leadership, communication, team building, and citizenship skills. Conduct training in natural resources needs and urbanization patterns for civic and community leaders.

Outcome Measures:
Develop and deliver education programs on leadership for municipal and community leaders, particularly in addressing natural resource needs, population growth, and urbanization patterns. Outreach programs included leadership training for 4,379 participants; grant-writing for 1,211 community leaders to build local capacity and a seminar by the S.C. Women's Connection broadcast on public TV and radio to build women's leadership potential.
Agency Activity Inventory
by Agency
Appropriation Period: FY 2009-10

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Agency: P20 - Clemson PSA  Functional Group: Economic Development & Natural Resources

1485  Natural Resources and Environmental Research and Education: Recreation and Tourism

Conducts statewide education programs to promote environmentally sound natural resource recreation and tourism opportunities in South Carolina. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the quality of South Carolina's natural resources
Strategy: Provide for the response and prevention of irresponsible human behavior or non-human natural resource destruction.

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Other Fund - Subfund No. & Title: 3035-Op Revenue
Budgetary Program No.: III, IV, VIIC

Expected Results:
Develop and deliver educational programming on the interaction of water quality and recreation and tourism activities. Provide additional training to nature-based tourism professionals to ensure that the content and delivery of their education programs is accurate and of high quality.

Outcome Measures:
Develop and deliver educational programs on the nature-based tourism industry for recreation and tourism operators, Extension county agents, government officials, land management, agency personnel, and citizens. Research seeks to develop agro-tourism, outdoor recreation and nature-based tourism as alternative revenue sources.

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Agency: P20 - Clemson PSA  Functional Group: Economic Development & Natural Resources

1486  Natural Resources and Environmental Research and Education: Alternative Income

Page 10  9/22/2009
Opportunities for Landowners

Conducts statewide education programs to assist landowners in developing alternative income sources from natural resources, with a focus on wildlife resources. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the conditions for economic growth

Strategy: Provide for a more unified and focused effort in the marketing of our State's assets.

**FY 2009-10**

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**Budgetary Program No.:** IV, VIIC

Expected Results:
Develop and deliver educational programs for farm and forest landowners, Extension agents, and natural resource professionals on alternative income opportunities from natural resources, with an emphasis on wildlife resources. Continue development of the Pee Dee Research & Education Center as a demonstration site for integrated farm, forest and wildlife management illustrating both management and income opportunities from wildlife.

Outcome Measures:
Develop and deliver education programs on alternative income opportunities for farm and forest landowners, Extension agents, and natural resource professionals. Extension programs reached 499 landowners with training on wildlife management as an alternative income source. Research includes nature-based tourism and agritourism opportunities for rural landowners.

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Agency: P20 - Clemson PSA

Functional Group: Economic Development & Natural Resources

Natural Resources and Environmental Research and Education: Water Quality and Quantity

Conducts statewide research and education programs to address the impacts of land use on water quality and quantity, and to promote Best Management Practices for homeowners, farmers, landowners, municipal officials, volunteers, and youth. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the quality of South Carolina's natural resources

Strategy: Provide for the response and prevention of irresponsible human behavior or non-
Agency Activity Inventory  
by Agency

Appropriation Period: FY 2009-10

human natural resource destruction.

FY 2009-10

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Other Fund - Subfund No. & Title:
3035-Op Revenue

Budgetary Program No.: III, IV, VIIC

Expected Results:
Conduct research to develop best management practices that reduce pollution, erosion, and storm water run-off, and thereby improve water quality. Conduct education programs to train municipal officials, watershed coordinators, project managers, consultants, contractors, and citizens in these practices. Storm water management programs include Nonpoint Education for Municipal Officials and Carolina Clear. Conduct research to understand the chemical, biological and physical dynamics of lakes and streams. Conduct research related to understanding economic, socio-cultural and ecosystem dynamics of watersheds. Undertake initiatives to study policy and political issues that affect lakes, rivers, streams and aquatic systems across South Carolina and the Southeast.

Outcome Measures:
Develop and deliver education programs on water quality that reached 450,186 participants, including municipal officials, contractors, homeowners, farmers, landowners, and youth. Lead a statewide Water Resources Conference for 350 participants from universities, state and federal agencies, non-governmental organizations, and the public. Develop a statewide focus on watershed management as the EPA-DHEC designated Watershed Center of Excellence for SC. Reduce fecal coliform levels in rural watersheds through education programs to exclude livestock from streams and to replace aging septic systems. Ongoing research focuses on nonpoint source pollution control, the effect of urbanization on contamination of surface waters, and the health of stream ecosystems. Research generated 1 disclosure and 1 patent issued.

Agency: P20 - Clemson PSA

Functional Group: Economic Development & Natural Resources

1488 Natural Resources and Environmental Research and Education

Conducts statewide research to protect and enhance the wildlife, soil and natural resources in South Carolina. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the quality of South Carolina's natural resources

Strategy: Provide for the marketing and enhancement of the economic and social value of SC's natural resources.
Agency Activity Inventory
by Agency
Appropriation Period: FY 2009-10

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Other Fund - Subfund No. & Title:
3035-Op Revenue

Budgetary Program No.: III, IV, VIIC

Expected Results:
Conduct research to: Develop agriculture and forestry practices that protect wildlife and the environment, and reduce forest fuel loads; Develop techniques for managing forest drainage systems; Determine the toxicity of metals and pesticides to aquatic animals and the impacts of non-point source pollution on wildlife; Develop sensors, tools and methodologies for soil, pest and water management to enhance environmental sustainability.

Outcome Measures:
Develop and deliver education programs on natural resources. Developed plan to prevent wildfires in Georgetown County by reducing fuel loads, in collaboration with the Forestry Commission. Ongoing research develops remote environmental sensing technology, monitors wildlife habitat conditions in Southeastern forests, studies the effects of climate change on coastal marine communities, and analyzes management systems for forested wetlands. Research generated 1 disclosure.

Agency: P20 - Clemson PSA

Functional Group: Economic Development & Natural Resources

1489 Sustainable Agricultural Production Systems: Nutraceutical Crops

Conducts statewide research and education programs to improve the production efficiency, environmental sensitivity, and profitability of nutraceutical crop management systems. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the quality of South Carolina's natural resources

Strategy: Provide for the response and prevention of irresponsible human behavior or non-human natural resource destruction.

FY 2009-10

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Other Fund - Subfund No. & Title:
3035-Op Revenue
Agency Activity Inventory
by Agency
Appropriation Period: FY 2009-10

Budgetary Program No.: III, VIIC

Expected Results:
Conduct research and education programs to develop crop management and harvesting techniques that improve the production efficiency and profitability of nutraceutical crops.

Outcome Measures:
Research focuses on production methods for high-value nutraceutical crops.

Agency: P20 - Clemson PSA

1490 Sustainable Agricultural Production Systems: Organic Crops

Conducts statewide research and education programs to improve the production efficiency, environmental sensitivity, and profitability of organic crop management systems. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the quality of South Carolina's natural resources

Strategy: Provide for the protection of outcome-driven policies / incentives / programs aimed at ecological sustainability.

FY 2009-10

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Other Fund - Subfund No. & Title:
3035-Op Revenue

Budgetary Program No.: III, IV, VIIC

Expected Results:
Conduct research and education programs to: Develop crop management information about the promising niche market of organic farming; Disseminate information on organic farming systems to current growers and growers interested in adopting organic practices.

Outcome Measures:
Develop and deliver education programs to enhance the use of organic farming systems. Extension training programs reached 1,240 participants. Research focuses on pest and fertility management strategies for sustainable production.
1491 Reducing the Impact of Animal Agriculture on the Environment

Clemson PSA is the sole source for providing training as required by law for all livestock and poultry producers to receive their waste permit. This program reduces the environmental impact of animal waste through statewide research and education programs for animal agriculture producers. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the quality of South Carolina's natural resources
Strategy: Provide for the protection of outcome-driven policies / incentives / programs aimed at ecological sustainability.

**Expected Results:**
Develop and demonstrate new, cost-effective technologies and practices to reduce the environmental impacts of animal agriculture. Develop and deliver education programs to train and certify animal facility operators and to educate livestock producers on environmentally sound manure treatment, storage and utilization systems, and methods to reduce sediment loading of streams from pastures, holding areas, and land application sites. (Confined Animal Manure Management)

**Outcome Measures:**
Develop and deliver education programs to certify newly permitted confined-livestock and poultry producers and to provide annual re-certification training for all permit holders, as required by state law. 1,764 livestock producers attended recertification trainings to maintain their permits. Research focuses on sustainability of livestock and poultry production.
Agro Medicine (pass-thru)

The S C Agromedicine Program is a cooperative effort between the Medical University of SC (MUSC) and Clemson's Cooperative Extension Service. It provides: 1) Education to physicians, nurses & other health care workers who serve the farming community about farm-related health issues (e.g. pesticide poisoning, insect/spider bites, fire ant sting reactions, noise-induced hearing loss, etc.); 2) Education to pest-control operators, mosquito abatement officials & other agriculture workers regarding health effects of pesticides, risk & personal protection; 3) Education to lay and professional groups regarding food quality / food safety and farm safety issues; 4) Research on farm-related health issues; and 5) Services such as telephone consultations to physicians, the Cooperative Extension Service and individual patients on farm-related health issues. Agromedicine was established as a separate program within Clemson-PSA by the FY 1986-1987 Appropriations Act. Funds appropriated to PSA for Agromedicine are transferred to MUSC annually under a contractual agreement.

Statewide Result Area: Improve the health and protections of our children and adults

Strategy: Provide for measures to increase the number of individuals with a medical home.

FY 2009-10

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Other Fund - Subfund No. & Title:

Expected Results:

Provide teaching, research and service in the area of agromedicine to improve the diagnosis and treatment of agriculture-related health problems, the accuracy of the public's perceptions of food quality and safety and pesticide health effects, and the overall safety and health of the farm population.

Outcome Measures:

No activity in 09-10

funding eliminated in 08-09 budget cuts

Agency: P20 - Clemson PSA

Functional Group: Economic Development & Natural Resources

Agricultural Biosecurity

The lead agency in South Carolina to provide coordination of statewide surveillance for naturally occurring and introduced diseases and pests of agricultural plants and animals under Homeland Security Presidential Directives 8, 9 and 10. In addition, education programs are developed and implemented for disaster preparedness, prevention, and mitigation for livestock and other animals, whether those disasters are natural or man-made. Sections 46-7-10 et seq. of the SC Code of Laws authorizes
Agency Activity Inventory
by Agency

Appropriation Period: FY 2009-10

Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**Statewide Result Area:** Improve the quality of South Carolina's natural resources

**Strategy:** Provide for the protection of outcome-driven policies / incentives / programs aimed at ecological sustainability.

### FY 2009-10

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**Other Fund - Subfund No. & Title:**
3035-Op Revenue

**Budgetary Program No.:** III, IV, VIIC

**Expected Results:**
Improve local, state, and regional capabilities to detect, recognize, diagnose, and prevent agroterrorism and threats to food production agriculture by foreign animal diseases, foreign plant diseases, or other disasters that threaten agriculture or food safety.

**Outcome Measures:**
Develop and deliver education programs for farmers, county and state emergency response personnel and Extension agents focusing on agricultural biosecurity, including agroterrorism awareness, prevention, mitigation, response and recovery. Collaborate with other state agencies to develop alert systems and response plans for exotic plant/animal diseases and pests. Conduct training exercises for state and local responders to ensure readiness; conduct research on biosecurity issues. Implement SC AgWatch program to enhance on-farm preparedness and response through increased awareness of foreign plant and animal diseases/pests, biosecurity practices, and notification procedures.

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**Agency:** P20 - Clemson PSA

**Functional Group:** Economic Development & Natural Resources

### 1494 Environmental Horticulture Education

Conducts statewide research and education programs to increase the use of environmentally sound horticultural practices and to protect the quality of the state's soil, air, and water. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**Statewide Result Area:** Improve the quality of South Carolina's natural resources

**Strategy:** Provide for the protection of outcome-driven policies / incentives / programs aimed at ecological sustainability.
Agency Activity Inventory  
by Agency  
Appropriation Period: FY 2009-10

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Other Fund - Subfund No. & Title:  
3035-Op Revenue

Budgetary Program No.: IV, VIIC

Expected Results:
Conduct research and education programs to inform horticulture professionals, master gardeners, and consumers on environmentally sound horticultural practices.

Outcome Measures:
Develop and deliver information on environmentally sound horticultural practices to 24,756 consumers and horticulture professionals via Urban Horticulture Center and Home & Garden Information Center (HGIC) toll-free telephone line. Deliver information through public radio and TV programs and through the HGIC web site (6.5 million visits annually). Provided training to 6,569 consumers and horticulture professionals, trained 1,125 new Master Gardeners, and provided 67,168 hours of volunteer horticulture services to communities.

Agency: P20 - Clemson PSA

Functional Group: Economic Development & Natural Resources

1495 Agricultural Biotechnology
Conducts biotechnology research and shares research findings for commercial development through patents and licenses to build the knowledge-based economy. Mass-produces genetic reference libraries for research using high-end robots, sequencers, and physical mapping equipment. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the conditions for economic growth

Strategy: Provide for resources and infrastructure for a more skilled and prepared workforce.

FY 2009-10

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Other Fund - Subfund No. & Title:  
3035-Op Revenue

Budgetary Program No.: III, VIIC
Agency Activity Inventory
by Agency

Appropriation Period: FY 2009-10

Expected Results:
Discover and apply significant biotechnology products and processes to improve agriculture, the environment, and human health. Patent and license research discoveries for commercial application to build the knowledge-based economy in South Carolina. Collaborate with SC Bio and the Department of Commerce to recruit biotech companies and assist with new company start-ups.

Outcome Measures:
Discoveries in biotechnology products and processes will be disclosed through research publications and patents, and will be available for commercial application through license agreements. New employment opportunities will be created through biotechnology business recruitment and new company start-ups. Ongoing research focuses on improving performance of agricultural crops, the national animal genome study, engineering for a biobased economy, and developing bioinformatics resources. Research generated 1 disclosure and 3 patent applications.

Agency: P20 - Clemson PSA
Functional Group: Economic Development & Natural Resources

1496 Risk Management Systems for Agricultural Firms

Provides statewide economic analyses of agricultural enterprises and technologies and education programs to assist farm managers in developing viable business systems. In addition, risk management research is conducted and information is disseminated to agricultural managers. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the conditions for economic growth
Strategy: Provide for a more unified and focused effort in the marketing of our State's assets.

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Other Fund - Subfund No. & Title:
3035-Op Revenue

Budgetary Program No.: III, IV, VIIC

Expected Results:
Conduct statewide research and education programs on agricultural market assessment and appropriate marketing strategies for agricultural commodities in South Carolina.

Outcome Measures:
Develop and deliver education programs on risk management to 335 farm and agribusiness managers.
Agency Activity Inventory  
by Agency  
Appropriation Period:  FY 2009-10  

Agency:  P20 - Clemson PSA  
Functional Group:  Economic Development & Natural Resources  

1497  Integrated Pest Management (IPM) for Agriculture and Forestry  
Conducts statewide research and education programs to identify alternative pest control strategies for field crops and landscape/ornamental plants and to reduce dependence on the use of agricultural chemicals by increasing the use of biological controls. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area:  Improve the quality of South Carolina's natural resources  
Strategy:  Provide for the protection of outcome-driven policies / incentives / programs aimed at ecological sustainability.

FY 2009-10  

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Other Fund - Subfund No. & Title:  
3035-Op Revenue  
Budgetary Program No.:  III, IV, VIIC  

Expected Results:  
Agricultural producers and producers of landscape and ornamental plants in South Carolina will adopt and utilize integrated pest management (IPM) practices that will reduce the number of pesticides and increase the value of South Carolina's agricultural products.

Outcome Measures:  
Conduct statewide research and deliver education programs on integrated pest management for agricultural producers and forest landowners. IPM strategies are used on 40,526 acres of collards, 2,500 acres of cotton and 17,000 acres of peaches. Ongoing research focuses on using IPM to protect honey bee colonies and developing IPM strategies for cotton, forest trees and high-value specialty crops.

Agency:  P20 - Clemson PSA  
Functional Group:  Economic Development & Natural Resources
1498  Sustainable Forestry Management and Environmental Enhancement

Conducts statewide research and education programs to develop and demonstrate new methods in ecologically and economically sustainable forest and wildlife management, particularly in restoring forest ecosystems and habitats for endangered species, and developing alternative income sources for landowners. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**Statewide Result Area:** Improve the quality of South Carolina's natural resources

**Strategy:** Provide for the protection of outcome-driven policies / incentives / programs aimed at ecological sustainability.

**FY 2009-10**

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**Other Fund - Subfund No. & Title:**
3035-Op Revenue

**Budgetary Program No.:** III, IV, VIIC

**Expected Results:**
Research programs will develop new management practices that promote sustainable use and management of forest resources. Research will include an education component, such as training or demonstrations of new techniques, particularly for industrial and government foresters. Education programs will encourage landowners to adopt and use practices developed through research.

**Outcome Measures:**
Develop new forest management practices that expand and enhance sustainable forestry practices. Install demonstrations of these techniques for use in educational programs. Through these programs, increase the number of acres of forests in South Carolina using sustainable forestry practices, increase biodiversity in the state, restore longleaf pine ecosystems, and facilitate the conservation of ecosystems. Extension training programs were delivered to 1,094 people who manage 105,453 acres of forest land. Average savings were $56,000 in management costs. Ongoing research focuses on forested wetland ecosystems, the environmental responses to fire and forest management in the SC coastal plain, and modeling the effects of hurricanes on forests in the Southeast.

---

**Agency:** P20 - Clemson PSA

**Functional Group:** Economic Development & Natural Resources

1499  Natural Resources and Environmental Research and Education: Nuisance Species

Conducts statewide research and education programs to effectively address and minimize problems with nuisance species that cause significant economic, health and human safety concerns in South Carolina. These species include invasive plants, such as beach vitex and giant salvinia, which compromise water quality and negatively impact revenues from tourism, shipping,
Agency Activity Inventory
by Agency
Appropriation Period: FY 2009-10

fishing, forestry and other industries. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**Statewide Result Area:** Improve the quality of South Carolina's natural resources

**Strategy:** Provide for the protection of outcome-driven policies / incentives / programs aimed at ecological sustainability.

**FY 2009-10**

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**Budgetary Program No.:** IV, VIIC

**Expected Results:**
Develop and deliver education programs for landowners, homeowners, natural resource professionals, and county Extension agents on controlling nuisance species such as beach vitex and giant salvinia, which compromise water quality and negatively impact the coastal environment.

**Outcome Measures:**
Develop and deliver education programs on nuisance species for 881 landowners, homeowners, and natural resource professionals. Extension programs led efforts to eradicate beach vitex and replant with native vegetation on 241 sites, and to control phragmites on 988 acres on the SC coast. A statewide cogongrass survey covered 5,000+ miles of roads and identified the invasive species in 10 counties.

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**Agency:** P20 - Clemson PSA

**Functional Group:** Economic Development & Natural Resources

1500 Rural Community Public Issues Education

Conducts education programs on public issues management and certifies facilitators to lead local efforts. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**Statewide Result Area:** Improve the conditions for economic growth

**Strategy:** Provide for a more unified and focused effort in the marketing of our State's assets.

**FY 2009-10**
Agency Activity Inventory
by Agency

Appropriation Period: FY 2009-10

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Other Fund - Subfund No. & Title:
3035-Op Revenue

Budgetary Program No.: IV, VIIC

Expected Results:
Develop and deliver education programs on facilitation skills and best practices of conflict resolution for use in public meetings and public forums (Public Issues Management School). Partner with state agencies and private interest groups to offer training in facilitation, negotiation, conflict resolution and management, and mediation. Prepare educational materials for the public (print, video, television, and radio) to promote understanding of public issues.

Outcome Measures:
Develop and deliver education programs on public issues for state, federal, and local agency personnel, association members, and citizens. Extension programs included training for 327 individuals in establishing civil societies and youth participation in national issues forums on health care and violence prevention. A partnership with the SC Bar Association, called Project Citizen, is a nationally recognized initiative to develop civic education and engagement programs in middle schools.

Agency: P20 - Clemson PSA

Functional Group: Economic Development & Natural Resources

1502 Rural Community Economic Development

Conducts statewide programs to enhance economic development through workforce analysis, business development strategies and policy formation, and surveys to enhance workforce preparedness and business retention efforts. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the conditions for economic growth

Strategy: Provide for a more unified and focused effort in the marketing of our State's assets.

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Other Fund - Subfund No. & Title:
3035-Op Revenue
Agency Activity Inventory  
by Agency  
Appropriation Period: FY 2009-10

Expected Results:
Conduct county-based programs annually to increase business retention and expansion and workforce preparation, focusing on the least-developed counties. Convey community and regional economic impact assessment data to business leaders and economic development organizations. Provide county and municipal leaders with socio-economic trend and pattern data to support local economic development strategic planning efforts.

Outcome Measures:
Develop and deliver education programs on business retention and enhancement for business and workforce preparation agencies. Conduct research to expand economic development opportunities in rural communities, particularly in agribusiness, the life sciences, and the knowledge-based economy. Extension training to enhance rural economic development reached 361 participants. Grant-writing workshops and planning charities to enhance rural economic development reached 2,305 participants. Ongoing research focuses on growing capacity in the knowledge economy and building community-based entrepreneurship.

---

Agency: P20 - Clemson PSA

1503 Livestock-Poultry Health Programs: Meat Inspection

Inspects and tests meat and poultry processing operations in South Carolina to ensure the safety of the state's food products of animal origin. Sections 47-4-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to perform these duties as assigned by law.

Statewide Result Area: Improve the quality of South Carolina's natural resources

Strategy: Provide for the minimization of negative effects related to business and population growth, industrialization and development.

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Other Fund - Subfund No. & Title: 3035-Op Revenue

Budgetary Program No.: IIA, IIB, VIIC

Expected Results:
Develop and present a comprehensive training course for all inspection personnel to ensure as safe a meat supply as possible in South Carolina. Develop and maintain the Food Emergency Notification System, a database of SC government agencies and private industry.
Agency Activity Inventory  
by Agency  
Appropriation Period: FY 2009-10

**Outcome Measures:**
Provide inspectors the technical framework to review the Sanitation Standard Operating Procedure and the Hazard Analysis and Critical Control Point (HACCP) system of official establishments to determine if they are in compliance with Title 9, Code of Federal Regulations, Parts 416 (Sanitation) and 417 (HACCP Systems) and require corrective action for deficiencies. Work in collaboration with the SC Emergency Management Division to notify state agencies and industry of food recalls, using the Food Emergency Notification System database.

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**Agency:** P20 - Clemson PSA  
**Functional Group:** Economic Development & Natural Resources

1504 Livestock-Poultry Health Programs: Animal Health and Diagnostic Laboratory

Provides statewide surveillance for diseases that affect both humans and other animals, and provides the diagnostic expertise to support control and eradication of disease of domestic animals. Provides veterinary diagnostic laboratory facilities and expertise to assist state veterinarians in diagnosing diseases found in companion and food animals, as well as in wildlife. Serves as the primary agency for ESF-17 in the State Emergency Operations Plan; provide multi-agency coordination of statewide animal emergency response plans to protect livestock and wildlife, and to support public health and safety. Sections 47-4-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to perform these duties as assigned by law.

**Statewide Result Area:** Improve the quality of South Carolina's natural resources  
**Strategy:** Provide for the minimization of negative effects related to business and population growth, industrialization and development.

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Other Fund - Subfund No. & Title:  
3035-Op Revenue  

**Budgetary Program No.:** IIA, IIB, VIIC

**Expected Results:**
Ensure the safety and health of humans and other animals in South Carolina. Maintain the state's disease-free status by the U.S. Department of Agriculture (USDA) for cattle brucellosis, swine brucellosis, classical swine fever, pseudo-rabies, tuberculosis, and pullorum-typhoid. Implement the National Animal Identification System (NAIS) for traceability of disease outbreaks. Maintain a full-time staff of employees who are trained and demonstrate proficiency in specific tests certified by USDA laboratories. Maintain adequate funding, professional and technical staff, facilities and information resources to meet accreditation standards by the American Association of Veterinary Laboratory Diagnosticians (AAVLD). Coordinate the Animal Emergency Response with the County Animal Response Teams (CART), Extension Service, and multi-state agencies.
Agency Activity Inventory  
by Agency  
Appropriation Period: FY 2009-10

Outcome Measures:
Monitor livestock/poultry health statewide to meet requirement of maintaining certified free status in appropriate disease areas. Monitor and enforce livestock/poultry interstate movement/commerce requirements. Register premises and encourage animal identification to enhance tracking of animal movement during disease investigations. Granted full AAVLD Accreditation. Maintained 100% pass rating on laboratory proficiency testing certifications. Continue to assist County Emergency Management Directors, when requested, in the development of County Animal-Agriculture Response Teams (CARTs). Conducted two statewide exercises with USDA, DHEC, and SCEMD involving the deployment of the National Veterinary Stockpile in response to Highly Pathogenic Avian Influenza. Delivered SC Ag-Watch training classes regarding foreign animal disease, biosecurity, and notification procedures to approximately 1500 participants. Assisted State Homeland Security Planners in the development of a state food and agriculture asset list, and initiated the development of an all-encompassing database of state food and agriculture sector assets as a first step to ensure protection of this sector of the state’s infrastructure.

Agency: P20 - Clemson PSA  
Functional Group: Economic Development & Natural Resources

1505 Regulatory and Public Service Programs: Plant and Seed Certification

Carries out statewide mandated programs for plant and seed certification ensure the quality of fertilizer and lime; the prevention and control of introduced plant pests and pests of honey bees; certification of seed purity/germination; certification for organically produced plants; and certification of freedom from plant pests in nursery, greenhouse and transplants. These mandated services also administer quality assurance/identity preservation for transgenic crops. Since September 11th, the mandate also includes Homeland Security. Our mission is to prevent, mitigate, and respond to agroterrorism. Section 46-7-90 of the SC Code of Laws authorizes Clemson-PSA to receive and expend federal funds provided to the state's land-grant colleges.

Statewide Result Area: Improve the quality of South Carolina's natural resources
Strategy: Provide for the minimization of negative effects related to business and population growth, industrialization and development.

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Other Fund - Subfund No. & Title: 3035-Op Revenue

Budgetary Program No.: IA, IB, VIIC

Expected Results:
Through statewide educational enforcement of legislative mandates: Fertilizer and lime will be of a higher quality. Fewer or mitigated introductions of invasive plant pests will occur. Nursery and greenhouses will sell plants with...
fewer insects or disease pests. There will be less likelihood of agroterrorism. Administration of genetic and quality standards for certification of seed and vegetative propagated materials will ensure less chance of cross contamination. Inspection and certification of plant industry products will allow national and global sales and will support the organic produce industry. Homeland Security will be enhanced through regulation of the sale of fertilizer to reduce the likelihood of its misuse by terrorists.

Outcome Measures:
Sample and analyze a minimum of 5% of fertilizer materials sold in the state and enforce the statute to maintain deficiency rate of less than 20%. Certify plant commodities for interstate and international shipment by responding to over 1,000 phytosanitary requests within a one-week timeframe and maintain a minimum acceptance rate above 94%. Certify commercial greenhouses, nurseries, dealers, and turf/sod farms as apparently free from plant pests by conducting annual inspections of each of the 700+ licensed nurseries and ~300 dealers, achieving a 95% compliance rate. Inspect and certify eligible seed production for purity in order to maintain a minimum of 95% of seed lots meeting SC Certification Standards. Prevent and mitigate introductions of invasive species, concentrating on surveys to detect and mitigate sudden oak death, citrus diseases, emerald ash borer, light brown apple moth (peach pest), cogongrass, and tropical soda apple. Reduce the threat of agroterrorism through regulatory exercises, training and equipping staff, regulating sales of potentially explosive fertilizers, and conducting surveys to detect potential agroterrorism risks.

Agency: P20 - Clemson PSA
Functional Group: Economic Development & Natural Resources

1506 Boll Weevil Eradication Programs (pass-thru)
Mandated service to administer boll weevil eradication program. Boll weevil eradication program established by Section 46-10--10 et seq. of the SC Code of Laws.

Statewide Result Area: Improve the quality of South Carolina's natural resources

Strategy: Provide for the protection of outcome-driven policies / incentives / programs aimed at ecological sustainability.

FY 2009-10

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Other Fund - Subfund No. & Title:

Budgetary Program No.: IA

Expected Results:
Fewer or mitigated boll weevil infestations will occur.
Agency Activity Inventory
by Agency
Appropriation Period: FY 2009-10

Outcome Measures:
Prevent and mitigate boll weevil infestations. Compliance with boll weevil program requirements will be monitored helping ensure that cotton grown in SC is boll weevil free. The reduction in boll weevil infestations will reduce toxicity and frequency of pesticide applications to cotton.

Agency: P20 - Clemson PSA

1507  Regulatory and Public Service Programs: Pesticide Regulation
Carries out statewide mandated programs for pesticide regulation ensure safe and legal use of pesticides and administer pesticide container recycling programs. Since September 11th, the mandate also includes Homeland Security. Our mission is to prevent, mitigate, and respond to agroterrorism. Section 46-7-90 of the SC Code of Laws authorizes Clemson-PSA to receive and expend federal funds provided to the state's land-grant colleges.

Statewide Result Area: Improve the quality of South Carolina's natural resources

Strategy: Provide for the protection of outcome-driven policies / incentives / programs aimed at ecological sustainability.

FY 2009-10

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Other Fund - Subfund No. & Title:
3035-Op Revenue

Budgetary Program No.: IA, IB, VIIC

Expected Results:
Through statewide educational enforcement of legislative mandates: Pesticide exposure and misuse will be reduced. Groundwater contamination from pesticides will be reduced. SC structures will be better protected from insect attack. Homeland Security will be enhanced through regulation of the use of pesticides to reduce the likelihood of misuse by terrorists.

Outcome Measures:
Reduce S.C. pesticide misuse by making over 2,000 inspections to ensure safe pesticide use and structural pest control compliance with pesticide labels, and state and federal law. Reduce the threat of agroterrorism through regulatory efforts dealing with pesticide use, including aerial applications of pesticides.
Agency Activity Inventory
by Agency
Appropriation Period: FY 2009-10

Agency: P20 - Clemson PSA  Functional Group: Economic Development & Natural Resources

1508 4-H and Agricultural & Natural Resource Programs for Youth

Conducts statewide 4-H and research-based agriculture and natural resources education for youth. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve K-12 student performance
Strategy: Provide all students a customized learning experience.

FY 2009-10

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Other Fund - Subfund No. & Title:
3035-Op Revenue

Budgetary Program No.: III, IV, VIIC

Outcome Measures:
Develop and deliver education programs for youth and their families, with help from a statewide network of trained volunteers. 1,489 adults were trained as volunteers who worked with 18,330 youth in statewide programs, including natural resources in schools, water quality and conservation projects, outdoor education programs, livestock and crop production, and developing GPS/GIS maps for livestock evacuation during emergencies.

Agency: P20 - Clemson PSA  Functional Group: Economic Development & Natural Resources

1509 Food Safety and Nutrition

Conducts statewide research and education programs for farmers, food-handling employees, and consumers to ensure the safety and enhance the nutritional value of agricultural food products. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the health and protections of our children and adults
Agency Activity Inventory  
by Agency  
Appropriation Period: FY 2009-10

Strategy: Provide increased access to insurance and private payment for healthcare.

FY 2009-10

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<th>Federal Funds</th>
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Other Fund - Subfund No. & Title:
3035-Op Revenue

Budgetary Program No.: III, IV, VIIC

Outcome Measures:
Develop and deliver education programs on safe food-handling practices and healthful food choices for consumers, agricultural producers, commercial food handlers, processing and packing industry employees. 631 managers and employees at 230 food service establishments were certified in safe food handling and preparation. Ongoing research focuses on active packaging for food safety and stability, control of food-borne pathogens in pre- and post-harvest crop production and food safety in poultry production. Research generated 4 disclosures.

Agency: P20 - Clemson PSA  
Functional Group: Economic Development & Natural Resources

1510 Sustainable Agricultural Production Systems: Animal Production Systems

Conducts statewide research and education programs to improve the production efficiency, environmental sensitivity, and profitability of animal production systems. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the quality of South Carolina's natural resources

Strategy: Provide for the protection of outcome-driven policies / incentives / programs aimed at ecological sustainability.

FY 2009-10
Agency Activity Inventory
by Agency

Appropriation Period: FY 2009-10

<table>
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Other Fund - Subfund No. & Title:
3035-Op Revenue

Budgetary Program No.: III, IV, VIIC

Expected Results:
Conduct research and education programs to: Improve the production efficiency of confined animal systems; Improve grazing management practices for increased efficiency of production; Improve marketing of grazing livestock; Protect water quality in and running off from pastures; Provide information on current and emerging specialty animal industries; Increase awareness of the impact of herd health and reproduction on economic efficiency. Support the development of niche markets for beef, dairy, and poultry producers to allow farmers to diversify their operations and make local products available to SC citizens. Develop and implement animal production systems that are economically sustainable and environmentally sound. Provide training that will increase herd management skills and assist producers in making informed business decisions.

Outcome Measures:
Develop and deliver education programs on sustainable animal production systems for agricultural producers, Extension and other agency personnel. 5,900 livestock producers attended Extension programs to improve breeding and herd health, implement grazing management and drought response programs, and prepare for natural and biosecurity disasters. Ongoing research focuses on forage-fed beef, improved reproductive efficiency in cattle and horses, lowering milk-fat composition in dairy cattle, and improved disease resistance in poultry. Research generated 1 disclosure and 2 patent applications.

Agency: P20 - Clemson PSA

Functional Group: Economic Development & Natural Resources

1511 Natural Resources and Environmental Research and Education: Urban wildlife

Conducts statewide research and education programs to create and maintain ecologically significant habitats (including waterways and forests) in and around urban areas as traditional wildlife habitats are lost. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the quality of South Carolina's natural resources

Strategy: Provide for the protection of outcome-driven policies / incentives / programs aimed at ecological sustainability.

Fiscal Year 2009-10

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Agency Activity Inventory
by Agency
Appropriation Period: FY 2009-10

Expected Results:
Examine urban wildlife planning issues from the macro level (regions, states, counties, and cities) to the individual site. Educate involved stakeholders on the diverse issues and concerns involved in attracting and/or managing wildlife in urban and suburban areas. Encourage community and governmental leaders to plan for urban wildlife green spaces and waterways as part of a national effort. Assist in the development and implementation of urban wildlife plans and models for municipalities and developers, including green spaces, waterways and forests.

Outcome Measures:
Develop and deliver education programs on urban wildlife management for landowners, homeowners, nuisance wildlife control operators, natural resource professionals and Extension agents. Extension programs reached 323 participants.

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Agency: P20 - Clemson PSA

1512 Growth and Population Research and Education

Conducts applied research and education on population growth and its impact on urban planning and land use in coastal South Carolina. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the quality of South Carolina's natural resources
Strategy: Provide for the marketing and enhancement of the economic and social value of SC's natural resources.

FY 2009-10

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Other Fund - Subfund No. & Title:
3035-Op Revenue

Budgetary Program No.: IV, VIIC

Expected Results:
Address the growing information needs of the resource management and planning community through spatial technology products. Create visual products that enhance environmental knowledge, social science and policy
education. Make complex spatial analysis understandable to a wider audience and transfer this information via the Internet and network resources.

**Outcome Measures:**
The Coastal Zone Management study for SC-DHEC identifies strengths and areas of concern in the state's coastal region. Growth projection models and analyses guide planning for K-12 schools in Anderson County and for the University Center of Greenville.

<table>
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<tr>
<th>Agency</th>
<th>Functional Group</th>
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<tr>
<td>P20 Clemson PSA</td>
<td>Economic Development &amp; Natural Resources</td>
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</tbody>
</table>

**1513 Community and Economic Affairs Research and Education**

Conducts applied research and education in public policy areas to promote discussion and action on critical economic development issues facing South Carolina, the Southeast and the nation. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

- **Statewide Result Area:** Improve the conditions for economic growth
- **Strategy:** Provide for a more unified and focused effort in the marketing of our State's assets.

<table>
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<tr>
<th>FY 2009-10</th>
<th>Total</th>
<th>General Funds</th>
<th>Federal Funds</th>
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**Expected Results:**
Address local, state and regional and international policy issues through research. Provide information about emerging and current issues to policy makers and citizens, including information on data and data sources. Promote the discussion of policy options. Prepare reports and present workshops profiling South Carolina communities. Develop and provide methodologies for community enhancement and development. Conduct studies and make presentations on government finance, annexation, consolidation, tax policy, fiscal impact issues, economic development policy, planning, infrastructure investment, community planning and nature-based tourism. Provide expertise by participation in local, state, and regional initiatives.

**Outcome Measures:**
30 presentations were made to civic groups, city and county councils, and community leaders to share research findings on growth projection models, demographics and population trends, economic trends and taxation issues, in addition to 120 public radio programs that reach approximately 20,000 listeners.
1514  Sustainable Agricultural Production Systems: Agronomic Crops

Conducts statewide research and education programs to improve the production efficiency, environmental sensitivity, and profitability of agronomic crop management systems. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

Statewide Result Area: Improve the quality of South Carolina's natural resources

Strategy: Provide for the protection of outcome-driven policies / incentives / programs aimed at ecological sustainability.

Expected Results:
Conduct research and education programs to: Improve profitability of agronomic cropping systems; Reduce negative environmental impacts of agronomic cropping systems; Encourage adoption of new agronomic production systems; Encourage adoption of alternative methods of nutrient and pest management; Explore potential agricultural crops for use as biofuels.

Outcome Measures:
Develop and deliver education programs on agronomic crop production for agricultural producers, Extension and other agency personnel. Peanut management programs improved S. C. grower profitability by over $3 million. Small grain research and production trials increased grower profitability by over $1.2 million. Ongoing research focused on new technologies and management systems to improve crop yields and resistance to diseases and pests; reduce inputs of fertilizer, water and pesticides; and produce crops such as switchgrass for biofuels. Research generated 1 disclosure.

Agency: P20 - Clemson PSA
Functional Group: Economic Development & Natural Resources
1515 Household and Structural Pest Control and Pesticide Training

Clemson PSA is the sole source for statewide pesticide safety education and training of pest control professionals. Sections 46-7-10 et seq. of the SC Code of Laws authorizes Clemson-PSA to conduct Agricultural Research and to carry out Extension work as assigned by law.

**Statewide Result Area:** Improve the quality of South Carolina's natural resources

**Strategy:** Provide for the minimization of negative effects related to business and population growth, industrialization and development.

### FY 2009-10

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**Other Fund - Subfund No. & Title:**
3035-Op Revenue

**Budgetary Program No.:** IV, VIIC

**Expected Results:**
Conduct statewide education programs to identify, prevent and correct health and structural problems related to household pests and wood-destroying organisms in the home and work environment through training and education. Provide pesticide training programs for SC applicators (private and commercial) to protect applicators, the general public and the environment from misuse of pesticides.

**Outcome Measures:**
Pest control professionals, building owners, agricultural growers/producers and landscape maintenance professionals are trained in safe methods to reduce damage by insects and other pests. 376 pesticide applicators were trained for certification / recertification as required by state and federal regulations. In addition, 797 individuals were trained in pest control practices for human environments and 172 individuals were trained in controlling wood destroying insect pests.

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**Agency:** P20 - Clemson PSA

**Functional Group:** Economic Development & Natural Resources

**9998 4.04% Mid-Year Reduction**

4.04% Mid-Year Reduction

**Statewide Result Area:** Improve the quality of South Carolina's natural resources
Agency Activity Inventory
by Agency
Appropriation Period: FY 2009-10

Strategy: FY 2009-10 4.04% Mid-Year Reduction

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Other Fund - Subfund No. & Title:
NA

Budgetary Program No.: NA

Expected Results:
NA

Outcome Measures:
NA

AGENCY TOTALS

*Clemson PSA*

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