

AGENCY NAME:	Clemson University PSA		
AGENCY CODE:	P200	SECTION:	045

**Fiscal Year 2015-16
Accountability Report**

SUBMISSION FORM

AGENCY MISSION	<p>I. Mission Statement</p> <p>Clemson University Public Service Activities is made up of four interrelated units: Experiment Station, Extension Service, Livestock Poultry Health and Regulatory Services. The overall agency mission is to conduct research, extension (knowledge transfer) and regulatory programs that:</p> <ul style="list-style-type: none"> • Advance the competitiveness of South Carolina’s \$41.7 billion agriculture and forestry industry • Enhance the economic potential of rural communities • Safeguard the food supply • Preserve natural resources • Prepare young people for the workforce through 4-H
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AGENCY VISION	<p>II. Vision Statement</p> <p>To be acknowledged as the foremost provider of practical new discoveries, outreach education and technical assistance in the areas of agribusiness productivity and profitability, economic and community development, environmental conservation, food safety and nutrition, and 4-H youth development to enhance the quality of life for South Carolina’s citizens.</p>
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Please state yes or no if the agency has any major or minor (internal or external) recommendations that would allow the agency to operate more effectively and efficiently.

RESTRUCTURING RECOMMENDATIONS:	No
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Please identify your agency’s preferred contacts for this year’s accountability report.

	<u>Name</u>	<u>Phone</u>	<u>Email</u>
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I have reviewed and approved the enclosed FY 2015-16 Accountability Report, which is complete and accurate to the extent of my knowledge.

AGENCY DIRECTOR (SIGN AND DATE):	
(TYPE/PRINT NAME):	Dr. George R. Askew, Vice President, Clemson University Public Service and Agriculture

BOARD/CMSN CHAIR (SIGN AND DATE):	
(TYPE/PRINT NAME):	E. Smyth McKissick, III, Chairman, Clemson University Board of Trustees

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AGENCY'S DISCUSSION AND ANALYSIS

Clemson University's Public Service Activities (PSA) welcomes the opportunity to provide: 1) relevant information regarding its mission, funding, and performance; 2) external and internal factors affecting our performance this year; 3) our current efforts and results; and 4) present and anticipated changes.

Please see the Appendix for very brief information regarding Clemson University and PSA's accountability systems both external and internal. The 2015-16 reporting period is driven by the leadership of Vice President for Public Service and Agriculture Dr. George R. Askew, Regulatory Services Director, Dr. Stephen Cole, Livestock, Poultry and Health Director, Dr. Boyd Parr, Clemson Experiment Station Director, Dr. Christopher Ray, and Cooperative Extension Service Director, Dr. Thomas R. Dobbins. Clemson University continues to be led by President, Dr. James P. Clements, and is a 21st best national public university, as ranked by *U.S. News & World Report*.

Public Service Activities (PSA) is at the core of Clemson's land-grant university mission of teaching, research, and public service. Located in all 46 counties and at five Research and Education Centers around the state, PSA develops and delivers research-based information in five major focus areas - agrisystems productivity and profitability, natural and environmental resources, food safety and nutrition, agribusiness, and 4-H youth and families.

Clemson PSA is part of the national USDA system of research and knowledge transfer. We work collaboratively with stakeholders and other state agencies to identify issues and develop research-based solutions that enhance South Carolina's largest industry—agribusiness—that contributes \$41.7 billion and 200,000 jobs to the state economy. Clemson PSA is uniquely equipped to transfer science-based information to the state's citizens through the Extension Service, which conducts educational programs in all 46 counties targeted to the local needs.

Clemson Public Service Activities is made up of four interrelated units: Regulatory Services, Livestock-Poultry Health, Experiment Station, and Extension Service.

Regulatory Services programs protect the state from exotic and invasive species, ensure that pesticides are used safely, regulate the structural pest control industry, verify that fertilizer and lime meet standards and labeled guarantees, conduct programs for seed and organic certification, provide diagnosis of plant pests, and ensure readiness to respond to an agroterrorism event impacting the state's agriculture.

Livestock-Poultry Health (LPH) Programs ensure the health and safety of the livestock/poultry industries and companion animals, and protect the meat supply and public health of South Carolinians.

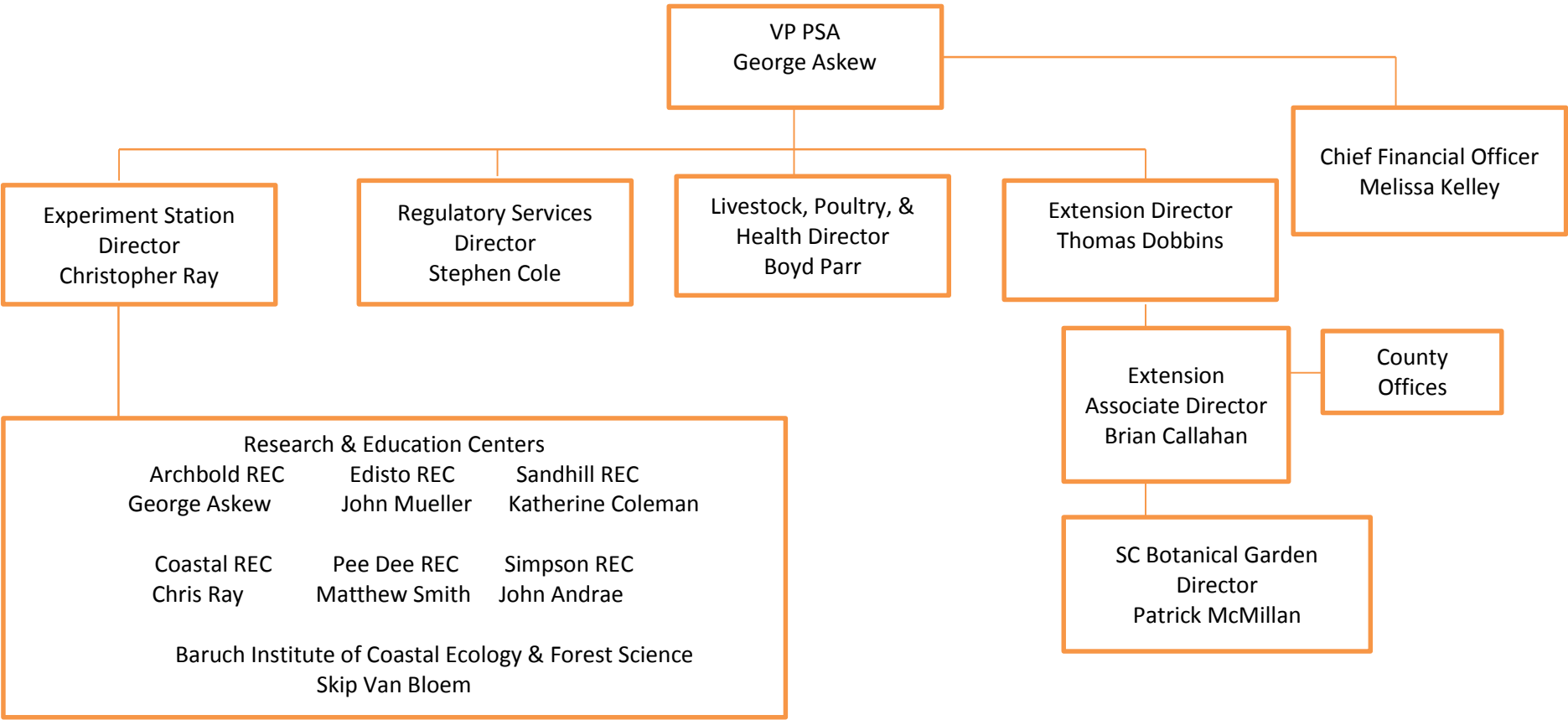
Clemson Experiment Station scientists work to improve the quality of life for people in South Carolina, the nation, and the world by providing science-based information on major issues facing decision makers.

Cooperative Extension Service agents meet the diverse needs of South Carolina citizens by delivering research-based information on agriculture, the environment, food safety and nutrition, agribusiness, and 4-H youth and families to farmers, producers, agribusiness professionals, and individuals across the state. Educating people in these types of areas in each state is the directive of the Land Grant College Act. If we did not accomplish our goals, the land grant system would not be able to function. South Carolina citizens and PSA stakeholders have direct input into decisions of the Extension system through statewide planning efforts and a needs identification process. The exchange between field and campus staff informs the research agenda, ensuring that program development addresses real needs of South Carolinians. In addition, working with Regulatory and LPH, our motto is *regulation through education*.

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PSA Organizational Chart



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Accountability and Format of Templates

The Strategic Planning and Performance Measures sections are arranged by the four main units within Clemson PSA: Regulatory Services, Livestock-Poultry Health, Experiment Station (Research), and the Extension Service. The results of our efforts are highlighted in the Strategic Planning and Performance Measures section of this report, however, the impact of Public Service Activities' research, educational, and regulatory programs goes far beyond the immediate recipients and is not easily formatted to an Excel spreadsheet. Below are some PSA accomplishments for FY 2015-16, organized by major unit.

REGULATORY SERVICES www.clemson.edu/public/regualtory/

Efforts to expand collaboration between Clemson Regulatory Services and Clemson Extension began in FY 2015 to leverage the expertise of Regulatory Services and the statewide connections of Extension agents. Regulatory and Extension personnel identified the following programs that could be expanded by collaboration:

- **Integrated Pest Management in Schools:** The Department of Pesticide Regulation (DPR) Compliance Inspectors collected pesticide application records for 647 schools since mid-2013. These application records are reviewed by the Reduced Risk Specialist and logged for future reference. Application records for 97 schools were reviewed during the last fiscal year. Also, pesticide applicators in 15 school districts were contacted last year. A breakdown of the applicators contacted is as follows: Commercial Lawn Care Operators (13), Noncommercial Lawn Care Operators (8), and Structural Pest Control Operators (11). In addition to preparing informational materials related to School IPM, DPR held ten training sessions on School IPM for Extension and Regulatory personnel throughout SC. Approximately 60 Extension and Regulatory employees participated in these trainings.
- The Department of Pesticide Regulation (DPR) **collected 208,042 pounds of used pesticide containers for recycling.** Since the program began in 1993, nearly 3 million pounds of pesticide containers have been recycled, representing an equal number of containers. The program helps protect the environment.
- **Invasive Species Program:** In response to new 2015 legislation, an Invasive Species Advisory Council was installed and put into service twice within the past year. Chaired by the Department of Plant Industry (DPI), the Council recommended the addition and deletion of several plant pests from the State Plant Pest List. A second impromptu meeting was called by DPI in response to a new disease of boxwoods discovered in South Carolina in which the Council recommended proper DPI action.
- **Benghal Dayflower:** In fall of 2015 this noxious weed was found in Dorchester County in South Carolina. After an extensive survey a quarantine was issued in an attempt to stop the continued spread of this weed across the state. The Department of Plant Industry implemented innovative technology in the form of a GIS mapping system to track and monitor eradication efforts.

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- **PCR testing for fecal coliforms:** Department of Plant Industry is assisting South Carolina municipalities in meeting EPA water quality standards. A molecular method was developed, tested and successfully implemented to differentiate fecal coliforms of animal origin in water samples. In FY 2016 we expanded the water sampling program for counties and municipalities as a service. This project is being done in conjunction the Clemson Center for Watershed Excellence. Pilot testing samples have already begun with the actual municipalities’ samples to begin September 2016.
- The Department of Plant Industry’s **Fertilizer Program** has increased the fertilizer samples by 40% since 2014. The sample numbers are now at 3,400 samples per year with 11.7% deficiency rate, well below the target of 20%.
- **Apiary Inspection Program:** In one year the DPI Apiary Inspection Program saw a dramatic increase in the issuance of Entry Permits and requested certifications for apiary shipments. With this increase in hive inspections and statewide education came an increase in Africanized Honeybee inspections (10+ inspections; none positive) and the discovery of American Foulbrood (3 confirmed). The program continues to grow and serve this vital state agricultural industry.

LIVESTOCK-POULTRY HEALTH <http://www.clemson.edu/lph/>

The Livestock-Poultry Health Programs protect the health of food animals, other livestock, and companion animals, conducting constant surveillance for diseases that affect both man and animals, providing the diagnostic expertise that allows for treatment and eradication of disease of domestic animals, inspecting/testing the processing of foods of animal origin, and coordinating state agricultural/animal emergency response as lead agency of ESF-17.

Animal agriculture represents \$14.5 billion to South Carolina’s overall economy, with over 58% of direct farm sales in South Carolina agriculture in a January 2015 study. Livestock-Poultry Health (LPH) programs protect and monitor the health of all livestock and poultry in the state and are integral to this industry’s continuation and growth.

Animal Health Programs personnel conducted 898 inspections at livestock auction markets, after-hours markets, dealers, farms, and miscellaneous sales sites such as flea markets. These inspections are part of the requirement for **maintaining the state’s “disease free”** status and are coordinated with USDA.

A novel H5N2 strain of **Highly Pathogenic Avian Influenza (HPAI)** caused the largest and most expensive foreign animal disease outbreak in the history of the United States in the Upper Midwest in 2015. Livestock-Poultry Health’s top strategic need is to be adequately staffed and equipped to help assure early detection, swift eradication and rapid recovery for the state’s poultry producers in an HPAI event in SC. Direct losses to the poultry industry in SC would be substantial and the potential loss of export and interstate markets is a significant concern we will face for the next several years. “Disease free” status improves access to both interstate and international markets. The state veterinarian signed 252 letters this year certifying South Carolina’s status for poultry enabling import to certain countries. S.C. poultry industry exports were valued at \$145.8 million in 2009.

SC Ag-Watch program led by LPH provides training to livestock owners on improved biosecurity practices, foreign animal disease awareness, and notification procedures. This approach emphasizes prevention of disease along with the traditional roles of disease surveillance, control, and eradication. State and local emergency managers also use SC Ag-Watch Manuals as a reference for agricultural emergencies.

LPH continued work on the **Mid-Atlantic Secure Milk Supply Project** in SC along with the State Veterinarians in TN, NC, VA, MD, WV, DE, NJ, PA, NY & GA. This project, developed in collaboration with all S.C. dairy

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industry segments, created a regional plan to mitigate potential economic losses of non-infected, voluntarily participating dairy farms in the event of a foot and mouth disease outbreak, without significantly increasing the likelihood that the disease could spread. LPH & Clemson University completed work on the official MOU that was endorsed in SC by the State Veterinarian, Clemson VP for PSA, Commissioner of Agriculture and the Governor. It has since been endorsed by all 11 states.

The **Veterinary Diagnostic Center** completed 91,495 tests and procedures during FY15-16 in performing its animal and food safety diagnostic duties. Of these, 90,508 were related to production animals and regulatory duties; the remaining 987 were from companion animals and wildlife.

SC Meat-Poultry Inspection completed its **annual audit by USDA Food Safety Inspection Service**. This review is to ensure a safe meat supply. The S.C. program continues to meet or exceed the federal requirements. Department activities included 100% on-line inspection during slaughter operations on 1,170 slaughter days that processed 22,520 livestock and more than 3.9 million poultry. Additionally, inspectors performed 42,824 individual inspection procedures during daily inspection in 73 slaughter and processing facilities.

Livestock-Poultry Health helps assure South Carolina’s concerns are discussed at the national and international levels. Professional staff served in many roles including the Secretary’s (USDA) Advisory Committee on Animal Health, American Veterinary Medical Association (AVMA) Animal Agriculture Liaison Committee, National Animal Health Information Technology Board (USDA), Vice-Chair of US Animal Health Association (USAHA)/American Association of Veterinary Laboratory Diagnosticians (AAVLD) Joint Committee on Animal Emergency Management, First Vice-President of USAHA, S.C. Delegate in AVMA House of Delegates, and President-elect of the American Association of Small Ruminant Practitioners.

CLEMSON EXPERIMENT STATION http://www.clemson.edu/public/experiment_station/

As a leading land-grant public research institution, Clemson University highlights its federal **grant activities** in this report. The number of externally funded research grants is one measure of Experiment Station scientists’ success in competing for limited funding. The data is cyclical in nature because of long-term funding periods—usually two to five years—limited numbers of principal investigators, and time constraints. This data is used to evaluate researchers’ productivity as well as to determine PSA’s contribution to university goals for generating external funding for research. In addition, the active Experiment Station projects produced 65 annual technical contributions, 164 journal articles and 14 book chapters in FY16.

The National Institute for Food and Agriculture will be moving towards a project format with similar projects being grouped together, called umbrella projects. Meetings were held with Clemson University researchers to discuss the potential for group participation in an umbrella project, based on fields of study for the Experiment Station. Over the course of the year, these groups have written their proposals and had them approved externally through peer review as well as through internal review. The research proposed in these new umbrella projects will begin on October 1, 2016.

COOPERATIVE EXTENSION www.clemson.edu/extension/

Last year, the Clemson University Cooperative Extension Service completed a 5-year strategic plan and has begun implementation of that plan. Extension has moved from 13 regions to 6 regions each with a Regional Lead Agent (RLA). Previously, RLAs were heavily involved in programs. A major change allows the RLAs to become leaders that are actively involved in the daily operations and implementation of our strategic plan. There is now one Regional Business Center (RBC) per region to help establish regional consistency. These changes have allowed Extension to be a more responsive administration to the needs of the professional county agents.

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As we studied the formation of our team structure and through careful and deliberate constructive conversations with agents, stakeholders and industry leaders, a change was made in the Natural Resource and Horticulture Teams to enhance the programmatic activities in both areas and two new Program Team Leaders were named. The Water and Forestry teams have combined under the Natural Resource Team to gain more synergy. The Horticulture Team has split into two teams, Commercial and Urban Horticulture. These changes will allow us to focus more on quality programming. The Economic and Community Development Team has been renamed Agribusiness and has a goal of fostering the development of local and regional food systems, promoting entrepreneurial and agribusiness development, and enhancing community resiliency and economic capacity.

In order to provide more opportunities for advancement and a way to develop succession plans, a formal Regional Lead Agent internship program has been developed and is offered to two individuals annually. In addition, a new Extension Mentoring Program is being established. The goal of the Extension Mentoring Team is to develop an individualized mentoring program for all of our new and beginning agents. The State Extension Advisory Council has been restructured and is now called the State Extension Advancement Council. Last year because of the hard work of Extension Agents and our advocacy team to develop quality programming, we were able to hire 14 new agents.

This has also been a very relentless year on our Agribusiness, Agronomic, Forestry and Livestock Teams with the historic flooding in the lower part of the state. Our agents were some of the first responders to help our most treasured commodity, *South Carolina farmers*. Our Agribusiness team has worked hand-in-hand with the S. C. Commissioner of Agriculture and the South Carolina Farm Bureau President to get the Farm Aid Bill passed through our legislation session. The South Carolina Department of Agriculture has lead on this project, but our agents are and will be the frontline for our farmers to assist with the application process.

Extension personnel delivered **educational programs** and information through 254,286 contacts across all 46 South Carolina counties. More than 155,991 participants attended 9,740 Extension programs. We have developed numerous partnerships with federal, state, local, and non-governmental entities, which has allowed us to eliminate duplication of service and at the same time, increase programmatic output and expertise.

To **reduce food-borne illness**, agents conducted ServSafe® food safety training for managers, supervisors, and other food handlers. A total of 255 food-service employees earned a course completion certificate, representing 176 food establishments. The National Restaurant Association estimates that, on average, a food-borne illness outbreak costs an establishment about \$75,000. The approximate economic value of the trainings could be as high as \$13,200,000 by preventing outbreaks.

Extension agents developed and delivered 1,210 educational programs in the areas of **Sustainable Forest Management and Natural Resources** (including water quality and quantity programs), reaching 26,385 people. Volunteers such as Master Naturalists contributed over 22,163 hours, which represent \$468,526 of program support. Agents conducted fire assessments, and presented workshops on prescribed fire burning, timber taxation, wildlife and pond management, hunting and land liability, forest landowner association meetings, and worked with individual families. The total acres affected was over 500,000.

Agents conducted 5,433 **4-H programs** that reached 94,486 youth and families with programs on agriculture, science and natural resources, food safety and nutrition, and leadership. In STEM programs, youth used critical thinking and problem-solving skills. Some 1,813 youth participated in citizenship/service projects. Over 3,352 adult volunteers contributed 20,112 hours, which represents a value of \$425,167 of program support.

Extension programs on productivity and profitability benefitted growers farming more than 1,100,000 **acres of agronomic crops**, which included 115,000 acres of peanuts, 440,000 acres of soybean, 180,000 acres of cotton, 350,000 acres of corn, and 15,000 acres of sorghum.

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Participants in the **Palmetto Leadership, Senior Leadership, and Junior Leadership** programs reported that they strengthened their community awareness and ability to access community resources, built partnerships, and strengthened their capacity to respond to future issues and opportunities. The most recent research indicates that 70% of graduates were still involved in a responsible community project three years after graduation. Youth and adults completing leadership projects collaborate with others in the region to address an issue or concern.

Extension Livestock and Forages programming focuses on increasing the adoption of research based best management practices to increase environmental sustainability, profit, and livestock/forage health. Programs increased market awareness and marketing strategy, leading producers to sell feeder calves directly off the farm, which increased the value of these cattle by an average of \$77/head compared to traditional marketing options. By marketing cattle off-farm, participating cattle farmers received an average of \$5,515 more income per farm versus traditional marketing methods. Other programs included Southern Forages Seminar, Hay Production Field Day, Sire Seminar, Master Cattleman, Grazing Management, Grass Masters, Small Ruminant Management, Backyard Poultry, Animal and Agriculture Flooding, Pork Quality Assurance trainings, biosecurity programs, meat goat workshops, and quality milk initiative assessments. Certification and re-certification credits were offered.

South Carolina Regulation R.61-43 provides requirements for confined animal facilities and the utilization of animal manure from those facilities. Under this regulation, managers of confined animal facilities must obtain a manure management certification through Clemson University and maintain that certification. Trainings were held around the state for 1,663 producers who received certification or recertification.

The economic impact of selected **Extension Horticulture Programs** again last year was estimated at \$2,836,000. Extension commercial vegetable production was \$235,000, commercial fruit production was \$960,000, commercial ornamental production was \$500,000, and the Clemson Small Farm Projects was \$105,000. The Small Farm Projects with SC State University with Clemson’s assistance resulted in \$36,000 in savings due to improved fertility and pest management with some reporting a 50% increase in sales volume and a 25% increase in profit margin. Due to improved knowledge of tree management, pest management, and fertility management particularly in old orchards undergoing renovation, growers have saved or gained in better quality and yields approximately \$47,500.

Agents conducted 319 **nutrition, physical activity, and health programs** for the public, reaching 4,605 persons. Expanded Food and Nutrition Education Programs were conducted for 527 limited resource adults and resulted in improved nutrition, physical activity, food safety, and food resource management practices (such as planning meals, comparing prices, and using grocery lists). Approximately 2,140 volunteer hours were contributed for adult and youth EFNEP programs, representing a program value of \$45,240.

Home and Garden Information Center (HGIC) experts provided gardening information to 9,291 individuals by telephone or in person. In addition, the HGIC website recorded 3,931,758 hits last year. HGIC updated 183 fact sheets and created 11 new fact sheets.

Some 454 **Master Gardeners** contributed 103,697 hours of volunteer service through programs, oral presentations, newsletters, radio programs, and TV appearances. This represents a value of \$2,192,155 in program support.

Extension agents and specialists used traditional media and social media to publish 2,501 articles in newspapers, trade publications, and newsletters. They delivered information on television, radio, Facebook, blogs and websites, reaching potentially over 1,000,000 people in South Carolina and neighboring states. In some counties text messages are sent to farmers with daily weather forecasts and local grower updates.

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Strategic Planning Template

Type	Goal	Item # Strat	Object	Associated Enterprise Objective	Description
G	1			Education, Training, and Human Development	The Clemson Experiment Station aims to identify critical issues and find solutions through research that support South Carolina's agriculture and forest industries.
S		1.1			Provide research based information for use by livestock producers, dairy and poultry farmers and horse owners in South Carolina. Support and assist the commercial horticulture industry, farmers and homeowners in South Carolina. Generate new science to boost agricultural production, improve global capacity to meet the growing food demand, and foster innovation in fighting hunger by addressing food security for vulnerable populations. Improve the quality, nutritional value and safety of the food consumed by South Carolina's citizens.
O			1.1.1		<i>Research will be conducted to improve animal production systems, improve horticultural crop production, to address issues related to global food security and hunger, in climate change, and in food safety, nutrition, and human health in South Carolina. Outcomes are to include disclosures, patent actions, new varieties, and technical contributions.</i>
S		1.2			Develop new innovative programs and strategies to encourage economic growth and development in South Carolina's rural counties.
O			1.2.1		<i>Research will be conducted to develop new strategies for rural economic growth in South Carolina. Outcomes are to include disclosures, patent actions, and technical contributions.</i>
S		1.3			Help to insure that South Carolina's citizens and industry have an ample supply of water and habitat for fish, wildlife and recreational purposes now and in the future, and to improve the quality of South Carolina's forests through watershed management, timber production strategies, and forest management practices.
O			1.3.1		<i>Research will be conducted to improve natural resources in South Carolina. Outcomes are to include disclosures, patent actions, and technical contributions</i>
S		1.4			Identify and develop biomass which can be used for biofuels, design optimum crops and forest products to maximize bioenergy production, and produce value-added bio-based industrial products. Generate knowledge to develop agricultural systems that maintain high productivity in the face of climate change.
O			1.4.1		<i>Research will be conducted into sustainable energy and climate change. Outcomes are to include disclosures, patent actions, and technical contributions</i>
G	2			Education, Training, and Human Development	The Clemson Extension Service will improve the economy, environment, and well-being of South Carolinians through the delivery of unbiased research-based information and education.

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Type	Goal	Item # Strat	Object	Associated Enterprise Objective	Description
S		2.1			Offer educational programming to improve the production efficiency, environmental sensitivity, and profitability of animal production systems and reduce the environmental impact of animal waste in South Carolina through Livestock and Forages programming.
O			2.1.1		<i>Growers will improve the production efficiency of confined animal systems and marketing of grazing livestock and will adopt grazing managing practices.</i>
S		2.2			Develop and offer high quality, targeted and relevant educational programs that educate non-commercial and commercial horticulture clientele on environmentally sound horticultural practices.
O			2.2.1		<i>Growers will adopt new horticultural production practices, including environmentally sound integrated pest management practices and IPM strategies and systems.</i>
O			2.2.2		<i>Consumers will increasingly gain information about environmental horticulture information through the Home and Garden Information Center (HGIC).</i>
S		2.3			Develop and implement agricultural production systems in South Carolina that are economically sustainable, safe and environmentally sound through the Sustainable Agronomic Production Program.
O			2.3.1		<i>Growers will adopt new agronomic production practices.</i>
S		2.4			Promote healthy lifestyles and improve the quality and safety of food for the citizens of South Carolina through the Food Safety, Nutrition and Health Program.
O			2.4.1		<i>Managers and supervisors will be certified to train food handlers in safe food handling techniques and food handlers will increase knowledge and skills in safe food handling and will practice safe food handling techniques.</i>
O			2.4.2		<i>Participants in the nutrition programs will show improvement in one or more nutrition practices.</i>
S		2.5			Identify or develop assessment tools and statewide local foods needs assessment plan to demonstrate economic benefits of local food sales and related economic impacts.
O			2.5.1		<i>Regional food systems working groups or advisory teams will be established and led by Extension.</i>

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S		2.6			Empower youth to become healthy, productive, and contributing members of society and promote their educational success through a learn-by-doing approach, inclusive learning environments, and the involvement of caring adults.
O			2.6.1		<i>Youth will gain knowledge and skills in leadership, citizenship, competency, coping, and caring skills through 4-H Youth Development Program.</i>
S		2.7			Promote the use of best management practices of forest systems and other natural resources to improve South Carolina's forest productivity and promote natural resource conservation through the Sustainable Forestry and Natural Resources Program.
-			2.7.1		<i>Landowners will adopt best management practices for forestry and natural resources.</i>
S		2.8			Help foster Clemson University's academic reputation through relevant public service, highly regarded faculty and staff and well trained volunteers.
O			2.8.1		<i>Extension staff will conduct relevant public service, publish scholarship for peer review, and publicize their achievements to Clemson University databases and university media, including the Clemson University Management Information System (CUMIS).</i>
G	3			Maintaining Safety, Integrity and Security	Clemson Livestock Poultry Health will ensure the continued health of the livestock and poultry industry, ensure safe, wholesome, properly labeled meat and poultry products, and protect the public health of the citizens of South Carolina.
S		3.1			Monitor interstate movement of animals, perform inspections at livestock auction markets, and develop and expand livestock traceability capability for livestock disease prevention, control and eradication.
O			3.1.1		<i>Protect animal and public health through control of endemic, foreign, and emerging diseases; enforce state and federal animal health laws and regulations by monitoring interstate movement of animals and inspecting livestock auction markets; expand livestock traceability, designed to enhance animal disease control, surveillance, and eradication programs</i>
S		3.2			Protect the health of consumers by providing a comprehensive inspection service to ensure safe, properly labeled, wholesome meat and poultry products.
O			3.2.1		<i>Regulate approximately 90 meat and poultry plants; protect the health of consumers by providing a comprehensive inspection service to ensure that meat and poultry products are safe, wholesome and accurately labeled.</i>
S		3.3			Provide accurate and timely veterinary diagnostic and surveillance testing for early detection of disease.

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O			3.3.1		<i>Provide accurate and timely veterinary diagnostic and surveillance testing for early detection of disease, thus improving the response activities and mitigating economic losses in livestock and poultry industry sectors; to meet NVSL accreditation standards and criteria for technicians to be proficiency certified.</i>
G	4			Maintaining Safety, Integrity and Security	Regulatory Services protects the citizens of South Carolina and the environment by implementing legislatively mandated regulatory programs and by providing other essential programs and services for agriculture and related sectors and for homeowners.
S		4.1			Ensure the safe use of pesticides to protect South Carolina's public health, natural resources and environment.
O			4.1.1		<i>Regulate the structural and turf/ornamental pest control industries ensuring compliance with pesticide laws and regulations.</i>
O			4.1.2		<i>Monitor the use of pesticides in South Carolina to ensure their safe and effective use and prevent harm to humans, plants, animals and the environment.</i>
S		4.2			Protect South Carolina's structures from termites and other structural pests by ensuring high standards are met for the pest.
O			4.2.1		<i>Regulate the structural and turf/ornamental pest control industries ensuring compliance with pesticide laws and regulations.</i>
O			4.2.2		<i>Monitor the use of pesticides in South Carolina to ensure their safe and effective use and prevent harm to humans, plants, animals and the environment.</i>
S		4.3			Ensure that the fertilizer, lime, landplaster and soil amendments sold in South Carolina will be of high quality and properly labeled.
O			4.3.1		<i>Fertilizer, lime, and soil amendments distributed to end users in South Carolina must meet label guarantees and be free of contaminants.</i>
S		4.4			Protect South Carolina' agriculture and the environment from harmful or invasive plant disease, weed, and insect species.
O			4.4.1		<i>Protect South Carolina's ecosystem and all levels of agricultural production by mitigating impact from plant pests, i.e., plant diseases, etc.</i>
S		4.5			Establish standards will be met for the production of certified seed.
O			4.5.1		<i>Seed is certified as true to variety and meets all official certification standards for quality and purity.</i>

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Type	Goal	Item # Strat	Object	Associated Enterprise Objective	Description
S		4.6		Correctly identify or diagnose plant pests and diseases and provide effective control recommendations in a timely manner.	
O			4.6.1		<i>Analyze plant samples to identify or diagnose weed, disease, and insect problems, providing results and control recommendations to clients.</i>
S		4.7		Help prepare South Carolina to better recover from disasters and other emergencies impacting agriculture in the state.	
O			4.7.1		<i>Ensure that all employees are trained on the ICS (Incident Command System) in the event of an emergency. Have trainings to make sure that everybody understands their roles.</i>
S		4.8		Enforce that established standards will be met for the production of certified organic products.	
O			4.8.1		<i>Provide USDA ---NOP accredited certification services to organic producers, processors, and handlers who seek certification through our agency.</i>
S		4.9		Provide for effective leadership, management and administration of Division programs, personnel and facilities.	
O			4.9.1		<i>Annually develop and initiate specific objectives for the various program areas within the two departments to include assignment of responsibility and target dates for completion.</i>
S		4.1		Provide information and analytical testing for soil, plant tissue, feed and forage, animal waste, irrigation water, and compost samples for individual clients, commercial dealers, Extension Agents, Extension Specialists, and researchers in South Carolina.	
O			4.10.1		<i>Provide Ag Service Lab Samples by categories</i>

Agency Name: Clemson University PSA

**Fiscal Year 2015-16
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Agency Code: P200 **Section:** 045

Performance Measurement Template

Item	Performance Measure	Target Value	Actual Value	Future Target Value	Time Applicable	Data Source and Availability	Calculation Method	Associated Objective(s)
1	Identify disclosures of new products and processes associated with the project results generated by its faculty.	The number of disclosures is not easily predicted.	5	Target values will change as our project formats are changing	July 1-June 30	Experiment Station Existing Data	The data is compared to the projected number of disclosures.	1.1.1., 1.2.1, 1.3.1, 1.4.1
2	Number of patent applications and awards associated (Patent Actions)	Number of patent applications and awards is difficult to predict.	1	Target values will change as our project formats are changing	July 1-June 30	Experiment Station Existing Data	The data is compared to the projected number of patent applications and patents awarded. The data demonstrates the discovery of new knowledge and its exclusivity to South Carolina, and it is an indication of the merit of the discoveries submitted.	1.1.1., 1.2.1, 1.3.1, 1.4.1
3	Number of license agreements signed for technology reflected in patents.	Number of license agreements signed is difficult to predict.	1	Target values will change as our project formats are changing	July 1-June 30	Experiment Station Existing Data	The data is compared to the number of licenses which are projected to be signed. The data demonstrates the application of new knowledge and it is an indication of the merit of the new technology.	1.1.1., 1.2.1, 1.3.1, 1.4.1
4	Number of technical contributions related to research.	Number of technical publications accepted for peer-reviewed publications is not a predictable variable.	65	Target values will change as our project formats are changing	July 1-June 30	Experiment Station Existing Data	The number of technical contributions are aggregated, and the results are evaluated using projected targets based upon historical data.	1.1.1., 1.2.1, 1.3.1, 1.4.1
5	Number of new plant varieties developed	Number of plant varieties developed is difficult to predict.	2	Target values will change as our project formats are changing	July 1-June 30	Experiment Station Existing Data	Activity volume	1.1.1
6	One or more community collaborations will be sustained to detect, recognize, diagnose, prevent, respond and recover from disasters in the animal program this year.	new	2	2	July 1-June 30	Clemson University Management Information System (CUMIS)	Number of collaborations reported	2.1.1

7	Percent of participants completing livestock and forages programs will report a gain in knowledge and skills.	80	91	90	July 1-June 30	Livestock and forages evaluations/CAMM exams/CUMIS	Number of participants gaining knowledge divided by the number who attended the program	2.1.1
8	Percent of participants completing sustainable horticultural programs will report a gain in knowledge and skills.	80	97	90	July 1-June 30	Horticulture evaluations/CUMIS	Number of participants gaining knowledge divided by the number who attended the program	2.2.1
9	Percent of participants completing sustainable agronomic production programs will report a gain in knowledge and will apply skills learned.	80	95	90	July 1-June 30	Agrocnomic crop evaluations and number of acres affected	Number of people reporting acres affected	2.3.1
10	Percent of participants in the pesticide applicator training program will increase knowledge and receive certification as a result of participating in educational programs.	80	97	90	July 1-June 30	Pesticide application evaluations	Number of participants gaining knowledge divided by the number who attended the program.	2.3.1.
11	Percent of participants attending food safety training will be certified in safe food handling.	80	87	85	July 1-June 30	Food safety training exams	Number participating divided by number passing tests. Potential cost of outbreaks per establishment.	2.4.1
12	Participants in the nutrition programs will show improvement in one or more nutrition practices.	75	93	90	July 1-June 30	Dietary recall records; pre/post tests	Number showing improvement divided by the number participating	2.4.2
13	Participants who complete Agribusiness programs will report knowledge gained.	80	94	90	July 1-June 30	Community and economic development program evaluations/CUMIS	Number of participants gaining knowledge divided by the number who attended the program	2.5.1
14	Percent of graduates from the Leadership Programs will collaborate to implement community projects.	50	100	Dropped	July 1-June 30	External reports from collaborators	Number of people collaborating divided by the number participating	Dropped
15	Percent of youth ages 9--19 participating in 4-H will demonstrate skills learned as a result of participating in 4--H projects.	80	94	90	July 1-June 30	4-H leadership development evaluations/ES 237	Number of participants gaining knowledge divided by the number who attended the program	2.6.1
16	Volunteer hours contributed to 4-H projects.	25,000	20,112	20,000	July 1-June 30	4-H leadership development evaluations/ES 237	Number of reported adult and youth volunteer hours contributed	2.6.1
17	Volunteers will be equipped for leadership roles, will train youth with new knowledge and skills, and will make positive impacts in their communities.	4,000	3,352	3,000	July 1-June 30	Volunteer reports	Number of volunteers receiving training	2.6.1
18	Percent of foresters and landowners will report a gain in knowledge as a result of participating in sustainable forest and natural resource programs.	80	99	90	July 1-June 30	Sustainable management forestry evaluations and numbers of acres affected	Number of participants gaining knowledge divided by the number who attended the program	2.7.1

19	At least one Extension impact statement will be produced and published per Extension staff member to convey relevant public service, achievements and scholarship for on campus and off-campus communities.	50	50	100	July 1-June 30	Impact Statement database	Number of media reports	2.8.1
20	Percent of persons completing water resources programs will report a gain in knowledge and skills.	80	97	Dropped	July 1-June 30	Water resources program evaluations	Number of participants gaining knowledge divided by the number who attended the program	Dropped
21	Number of new premises registered by Livestock Poultry Health	100	145	100	July 1 - June 30	LPH reports	Total	3.1.1
22	Total number of premises registered by Livestock Poultry Health	6160	6205	6305	July 1 - June 30	LPH reports	Total	3.1.1
23	Meet disease testing and trace back requirements for continued "disease free" status as specified in the code of federal regulations	Requirements met	Requirements met	Requirements met	July 1 - June 30	LPH reports		3.1.1, 3.2.1
24	Conduct inspections and investigations at locations including livestock markets, exhibitions, sales, and on livestock farms throughout South Carolina.	450 inspections, farm visits, and investigations.	763 inspections, farm visits, and investigations.	450 inspections, farm visits, and investigations.	July 1 - June 30	LPH inspection reports		3.1.1, 3.2.1
25	Inspection of meat and poultry plants and HACCP and SSOP records by inspector in charge. In-depth reviews of meat and poultry plants and HACCP and SSOP records by inspectors.	100% daily inspection of all meat and poultry plants and records, when operating.	100% daily inspection of all meat and poultry plants and records, when operating.	100% daily inspection of all meat and poultry plants and records, when operating.	July 1 - June 30	LPH inspection reports		3.1.1, 3.2.1
26	Meet NVSL (National Veterinary Services Laboratories) accreditation standards and criteria for technicians to be proficiency certified.	100% final pass rate achieved for all lab technicians on required proficiency testing for FY15-16	100% final pass rate achieved for all lab technicians on required proficiency testing for FY15-16	100% final pass rate achieved for all lab technicians on required proficiency testing for FY16-17	July 1 - June 30	NVSL test results	100% final pass rate of NVSL proficiency tests for procedures performed in Clemson Veterinary Diagnostic Center for which NVSL monitors test performance.	3.3.1
27	Maintain AAVLD (American Association of Veterinary Laboratory Diagnosticians) Accreditation or achieve accreditation through alternate group with ISO 17025 standards.	ISO 17025 Accreditation or AAVLD	ISO 17025 Accreditation	ISO 17025 Accreditation	July 1 - June 30	Accrediting bodies		3.3.1

28	Perform diagnostic procedures which are required for marketing of livestock and poultry, maintenance of "disease free" status, ensuring a safe meat supply, and assisting veterinarians and producers in diagnosing and treating diseases in animals.	Perform 80,000 diagnostic procedures. Over 90% of those procedures will relate to production animals.	91,495 diagnostic procedures; 98.9% of those procedures were regulatory/producti on animal related	Perform 80,000 diagnostic procedures. Over 90% of those procedures will relate to production animals.	July 1 - June 30	LPH reports		3.1.1, 3.2.1, 3.3.1
29	Number and acceptance rate of phytosanitary certificates issued.	100%	100%	95%	July 1-June 30	Benchmarking	DPI issued 1,436 federal phytosanitary certificates in a timely manner last year with no rejections from any country. 100% acceptance rate.	4.4.1
30	Total number of inspections of regulated businesses and the resultant compliance rate of these inspections.	100%	100%	95%	July 1-June 30	Activity volume	628 of 628 nurseries were inspected (100%). 532 of 1807 nursery dealers were inspected (33%). All were in compliance or brought into compliance after inspection. The nurseries that were not inspected were hobbyists rather than commercial nurseries.	4.4.1
31	DPI will conduct targeted surveys to detect potential invasive species introductions and regularly survey and treat currently infested sites with the goal of eradication.	8	8	4	July 1-June 30	Activity volume	Eight (8) targeted surveys were conducted during the reporting period as follows: Emerald Ash Borer - none detected. Thousand Canker Disease - not detected. Stone Fruit Pest - not detected. Nursery pest - none detected. Honeybee - no pest detected. Forest Pests - no pests detected, Tomato/Solanaceous - not detected. Wood Boring Bark Beetle - no pest detected. 3 Noxious weed surveys with eradication efforts: Benghal Dayflower - no new sites, 4 sites were treated Itchgrass - no new sites, 2 sites monitored Cogongrass - one new site, 13 sites treated	4.4.1
32	Record and report the rate of fertilizer samples deficient, which is a direct measure of a company's ability to meet its legal obligation to provide consumers with the plant nutrients guaranteed on the label.	20.00%	11.70%	Less than 20%	July 1-June 30	Benchmarking	Of 3,300 fertilizer samples collected, 282 were found to be deficient for an overall deficiency rate of 11.7%, well below the 20% rate.	4.3.1

33	Percentage of seed lots inspected in the field that meet purity standards in laboratory tests.	99.50%	99.30%	95%	July 1-June 30		98.1% compliance rate of the samples of certified seed lots (428) were found with the SC Seed Certification Standards for purity.	4.5.1
34	Conduct on-site inspections and records audits of all producers and handlers desiring to obtain organic certification.	99.50%	99.50%	95%	July 1-June 30		There are 51 operations certified plus 10 new operations in progress	4.5.1, 4.8.1
35	Provide accurate and timely diagnosis of all samples and viable control recommendations based on this diagnostic information.	Met - The Plant Problem Clinic processed 3,986 samples	Met - The Plant Problem Clinic processed 3,386 samples	Samples diagnosed and identification and control recommendations provided within one week.	July 1-June 30	Activity volume	The Plant Problem Clinic processed 3,986 samples. This was broken down as follows: 936 disease or abiotic problems, 122 insects or mites, 218 weeds. The Molecular Plant Pathogen Detection Laboratory processed 269 samples. The Commercial Turf Clinic processed 118 samples. 2,323 nematode samples.	4.6.1
36	Compliance rate Category 7 licensed pesticide applicators.	60%	89%	60%	July 1-June 30	Benchmarking	The structural compliance rate benchmark of 60% was exceeded. For the reporting period, the structural compliance rate was 89%.	4.1.1, 4.2.1
37	Total number of pesticide applicators licensed in Category 3.	2800	3292	2800	July 1-June 30	Activity	The total number of Category 3 applicators possessing a valid license during the reporting period exceeded 2,800 applicators. The number of Category 3 applicators who had a valid license during this period was 3,292 applicators.	4.1.1, 4.2.1
38	The number of compliance, complaint and other inspections conducted annually will be recorded and compared against an established benchmark of 2000 inspections.	2000	2247	2000	July 1-June 30	Activity volume	Inspections conducted during the period exceeded the benchmark of 2,000 inspections. The total number of inspections (compliance, complaint, dealer, structural pest, marketplace, agricultural use, groundwater, lawn care, worker protection, record check, producer establishment, structural pre-treat, non-ag use) for the reporting period was 2,247.	4.1.2, 4.2.2

39	Implement sustainable IPM programs in selected SC school districts.	Schools in 3 school districts	Schools in 3 school districts	Schools in 3 school districts	July 1-June 30	Benchmarking	DPR's Compliance Inspectors collected pesticide application records for 647 schools since mid-2013. These application records are reviewed by the Reduced Risk Specialist and logged for future reference. Application records for 97 schools were reviewed during the last fiscal year. Also, Pesticide applicators in 15 school districts were contacted last year. A breakdown of the applicators contacted is as follows: Commercial Lawn Care Operators (13), Noncommercial Lawn Care Operators (8), and Structural Pest Control Operators (11). In addition to preparing informational materials related to School IPM, DPR held ten training sessions on School IPM for Extension and Regulatory personnel throughout SC. Approximately 60 Extension and Regulatory employees participated in these trainings.	4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1
40	Develop and maintain emergency preparation and response plans for agroterrorism or other emergency situations that may affect SC agriculture.	Training Completed	Training Completed	Training Completed	July 1-June 30	Government standards	During the reporting period, the public has been educated about potential hazards and risks through 286 individual contacts made by DPR investigators. In addition, several staff attended relevant meetings and trainings.	4.1.2, 4.2.1, 4.2.2., 4.3.1, 4.4.1, 4.6.1
41	Measure the number of repeat violators (structural compliance)	20%	14.00%	Less than 20%	July 1-June 30	Benchmarking	The percentage of structural pesticide applicators who were repeat violators during the reporting period was 14%, therefore significantly less than the repeat violator benchmark of 20%.	4.1.1, 4.2.1
42	Provide a means for electronic submission of fertilizer, lime, landplaster and soil amendment tonnage reporting and payment. Likewise for seed and organic certification applications.	System online-implemented	System online-implemented	System online-implemented	July 1-June 30	Implementation complete	The online tonnage reporting and payment system developed for DPI by Kelly Solutions, Inc. is running with further growth and increased adoption rates.	4.3.1, 4.5.1

43	Total samples analyzed by the Agricultural Service Lab	100%	100%	100%	July 1-June 30	Benchmarking	Soil 49,401, Compost, 67; Animal Waste, 921; Animal Waste Contract, 683; Irrigation Water, 690; Plant Tissue, 2067; Feed and Forage, 713; Other Research/Commercial, 4182	4.10.1
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Legal Standards Template

Item #	Law Number	Jurisdiction	Type of Law	Statutory Requirement and/or Authority Granted	Associated Program(s)
1	46-9-10 et seq	State	Statute	Provides for the creation of the State Crop Pest Commission to carry out the regulation and/or eradication of certain plant pests and diseases.	Regulatory Services
2	46-13-10 et seq	State	Statute	Provides for Clemson to operate a pesticide program in South Carolina.	Regulatory Services
3	46-21-610 et seq.	State	Statute	Provides for Clemson to operate a program of seed and plant certification to foster the production and distribution of pure varieties of seed and plants in South Carolina.	Regulatory Services
4	46-35-10 et seq		Statute	Provides the Director of Regulatory and Public Service Programs shall regulate neglected or abandoned fruit orchards in the State.	Regulatory Services
5	46-7-10 et seq		Statute	Provides for the Director of Plant Industries to oversee the regulation of plant pests and pesticides throughout the State.	Regulatory Services

6	46-10-10 et seq		Statute	Provides for Clemson to operate and administer a Boll Weevil Eradication Program.	Regulatory Services
7	46-25-10 et seq	State	Statute	Provides for Clemson to regulate the inspection, analysis, distribution and sale of commercial fertilizers.	Regulatory Services
8	46-23-10 et seq	State	Statute	Provides for Clemson to regulate noxious weeds throughout the state.	Regulatory Services
9	46-37-10 et seq	State	Statute	Provides for Clemson to regulate the shipment and movement of honey bees throughout the state.	Regulatory Services
10	47-4-10 et seq	State	Statute	Establishes the State Livestock Poultry Health Commission; delegates authority to State Veterinarian, establishes penalties for violations and further authority to promulgate regulations.	Livestock Poultry Health
11	47-11-10 thru 170	State	Statute	Provides for the State veterinarian to oversee the permitting, inspection and operation of a public livestock market within the State.	Livestock Poultry Health

12	47-13-10 et seq.	State	Statute	Provides for the State Veterinarian to carry out the day to day responsibilities of the Clemson BOT as it relates to the regulation of livestock and poultry health diseases. This includes the authority to establish quarantines, enact regulations focused on the control of certain livestock diseases, to prevent the sale of diseased livestock, to embargo livestock likely to pose a disease threat.	Livestock Poultry Health
13	47-22-10 et seq.	State	Statute	Provides that LPH Director shall permit, inspect and otherwise regulate rendering plants in South Carolina, as well as vehicles used to transport raw materials.	Livestock Poultry Health
14	47-17-10 et seq.	State	Statute	Provides for the Director of LPH to oversee and establish a livestock meat inspection program, including the oversight and inspection of the slaughter and preparation of meat products for intrastate sale. Clemson is also authorized to carry out certain responsibilities under the Federal Meat Inspection Act if requested/agreed to by Federal Government.	Livestock Poultry Health
15	47-19-10 et seq.	State	Statute	Provides for Clemson PSA to be the designated state agency for cooperating with the US Secretary of Agriculture under the Federal Poultry Products Inspection Act. This includes the inspection of live poultry, carcasses and poultry products, as well as inspection of facilities for sanitary conditions and practices.	Livestock Poultry Health
16	47-6-10 et seq.	State	Statute	Provides that the State Livestock Poultry Health Commission and State Veterinarian shall regulate the control and eradication of pseudo rabies in SC.	Livestock Poultry Health
17	46-7-10, and 46-7-100 et seq	State	Statute	Clemson University shall have general powers and duties related to certain agricultural investigations, including the regulation and enforcement of livestock and poultry diseases, host statewide Extension meetings, etc.	Livestock Poultry Health

18

46-7-30, and 46-7-50 and 46-7-80 thru 90

State

Statute

Provides for Clemson University to operate at least two experimental stations across the State to conduct farm demonstrations and research. Furthermore, Clemson to receive appropriations from Congress for operation of said experiment stations.

Agricultural Research

19

46-7-60 thru 90

State

Statute

Provides for Clemson to receive funding from Congress, as well as grants, while carrying out research and cooperative extension work.

Cooperative Extension

20

47-7-10 et seq.

State

Statute

Clemson University shall have general powers and duties related to certain agricultural investigations, including the regulation and enforcement of livestock and poultry diseases.

Livestock Poultry Health

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Program Template

Program/Title	Purpose	FY 2015-16 Expenditures (Actual)				FY 2016-17 Expenditures (Projected)				Associated Objective(s)
		General	Other	Federal	TOTAL	General	Other	Federal	TOTAL	
I.A. Regulatory Services - General	Regulatory Services protects the state from exotic and invasive species, ensures that pesticides are used safely, regulates the structural pest control industry, verifies that fertilizer and lime meet standards and labeled gurantees, conducts programs for seed and organic certification, provides diagnosis of plant pests, and ensures readiness to respond to a catastrophic event impacting the state's agriculture.	\$ 731,811	\$ 4,627,275		\$ 5,359,086	\$ 723,576	\$ 4,753,469		\$ 5,477,045	All Goal 4 Objectives
I.B. Regulatory Services - Restricted	Regulatory Services protects the state from exotic and invasive species, ensures that pesticides are used safely, regulates the structural pest control industry, verifies that fertilizer and lime meet standards and labeled gurantees, conducts programs for seed and organic certification, provides diagnosis of plant pests, and ensures readiness to respond to a catastrophic event impacting the state's agriculture.			\$ 1,068,934	\$ 1,068,934			\$ 1,125,000	\$ 1,125,000	All Goal 4 Objectives
II.A. Livestock-Poultry Health - General	The role of the Clemson Livestock Poultry Health (LPH) is to protect animal health through control of endemic, foreign, and emerging diseases in livestock and poultry and to protect the health of S. C. consumers by providing a comprehensive inspection service to ensure that meat and poultry products are safe, wholesome and accurately labeled.	\$ 3,108,892	\$ 229,201		\$ 3,338,093	\$ 3,822,376	\$ 1,269,513		\$ 5,091,889	All Goal 3 Objectives

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Program Template

Program/Title	Purpose	FY 2015-16 Expenditures (Actual)				FY 2016-17 Expenditures (Projected)				Associated Objective(s)
		General	Other	Federal	TOTAL	General	Other	Federal	TOTAL	
II.B. Livestock-Poultry Health - Restricted	The role of the Clemson Livestock Poultry Health (LPH) is to protect animal health through control of endemic, foreign, and emerging diseases in livestock and poultry and to protect the health of S. C. consumers by providing a comprehensive inspection service to ensure that meat and poultry products are safe, wholesome and accurately labeled.			\$ 2,326,346	\$ 2,326,346			\$ 2,400,000	\$ 2,400,000	All Goal 3 Objectives
III. Agricultural Research	The role of Clemson's Experiment Station is to conduct research to develop relevant, science-based information that improves the state's economy by enhancing agriculture and forestry production, and natural resources management	\$ 14,703,566	\$ 4,426,211	\$ 4,977,479	\$ 24,107,256	\$ 15,739,009	\$ 5,642,886	\$ 5,500,000	\$ 26,881,895	All Goal 1 Objectives
IV. Cooperative Extension	The role of Clemson Extension is to transfer science-based information from the Experiment Station, Livestock-Poultry Health and Regulatory Services to commercial growers, livestock producers, land managers and individuals so that clientele can use the information to improve their well-being.	\$ 16,295,639	\$ 6,839,554	\$ 6,654,190	\$ 29,789,383	\$ 16,726,731	\$ 11,729,700	\$ 7,500,000	\$ 35,956,431	All Goal 2 Objectives

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Customer Template

Divisions or Major Programs	Description	Service/Product Provided to Customers	Customer Segments	<i>Specify only for the following Segments: (1) Industry: Name; (2) Professional Organization: Name; (3) Public: Demographics.</i>
Livestock-Poultry Health Programs	Ensures the continued health of the livestock and poultry industry, ensure safe, wholesome, properly labeled meat and poultry products.	Protects health and marketability of livestock and poultry and products in the state, inspects meat and poultry products in state inspected plants and protects public health in SC.	Executive Branch/State Agencies	
Livestock-Poultry Health Programs	Ensures the continued health of the livestock and poultry industry, ensure safe, wholesome, properly labeled meat and poultry products.	Protects health and marketability of livestock and poultry and products in the state, inspects meat and poultry products in state inspected plants and protects public health in SC.	Industry	Poultry (All phases of Broilers, Turkeys, Layers, Breeders, Quail, Pigeon, ducks), Beef Cattle, Dairy Producers, Pork Industry, Sheep, Goats, Horses, Alpacas, zoos, veterinarians, state meat/poultry slaughter facilities, state meat/poultry processing facilities
Clemson Experiment Station	Conducts research to identify critical issues and find solutions through research that support South Carolina's agriculture and forest industries.	Scientists work to improve the quality of life for people in South Carolina, the nation, and the world by providing science-based information on major issues facing decision makers.	General Public	Producers, Commercial and small farmers; academic institutions; researchers
Cooperative Extension Service	Improve the economy, environment, and well-being of South Carolinians through the delivery of unbiased research-based information and education.	Agents meet the diverse needs of S. C. citizens by delivering research-based information on Agrisystems Productivity and Profitability, Environmental and Natural Resource Conservation, Food Safety and Nutrition, Agribusiness, and 4-H Youth Development.	General Public	Youth ages 5-19; Producers; Commercial and small farmers; families; individuals; Gender: All; Economic requirements: All incomes

Dept. of Pesticide Regulation	Regulatory and Public Service Agency with Clemson University	The Department of Pesticide Regulation works to protect health, property, and our environment by promoting the safe and proper use of pesticides. Our programs include applicator licensing and education, pesticide container recycling, integrated pest management in schools, endangered species protection, and the worker protection program. Pesticide Regulation is the enforcement and investigative authority in South Carolina for pesticide use, alleged pesticide misuse, substandard termite treatments, and the South Carolina Wood Infestation Report.	General Public	All pesticide users
Dept. of Plant Industry - Seed Program	Regulatory and Public Service Agency with Clemson University	The Department of Plant Industry's Seed Program works to serve the farmers who grow certified seed crops. The service is to provide inspections/approvals/disapprovals by AOSCA standards for crops to be certified in the program.	General Public	Growers
Dept. of Plant Industry - Fertilizer Program	Regulatory and Public Service Agency with Clemson University	The Department of Plant Industry's Fertilizer Program aims to control quality and guarantees of all fertilizer, lime, landplaster sold in South Carolina.	General Public	All farmers or purchasers of fertilizer in South Carolina
Dept. of Plant Industry - Fertilizer Program	Regulatory and Public Service Agency with Clemson University	The Department of Plant Industry's Fertilizer Program works to serve the industry for all fertilizers/lime/ and landplaster manufacturers and dealers in South Carolina by AAPFCO recognized guidelines.	Industry	Fertilizer Industry
Agricultural Service Lab	Regulatory and Public Service Agency with Clemson University	To provide information and analytical testing for soil, plant tissue, feed and forage, animal waste, irrigation water, and compost samples for	General Public	Individual clients, commercial dealers, Extension Agents, Extension Specialists, and researchers in South Carolina

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Partner Template

Name of Partner Entity	Type of Partner Entity	Description of Partnership	Associated Objective(s)
Counties throughout the state	Local Government	Quarterly meetings allow partners to communicate planned activities and share opportunities for partnering. Anderson Stormwater Partners assist with Green Pond Landing Bio-Cell Project to convert and existing dry detention pond into a bio-cell and serve as a demonstration project for the community.	2.7.1
Ashley Cooper Stormwater Education Consortium	Non-Governmental Organization	Meetings allow partners to communicate planned activities and share opportunities for partnering.	2.7.1
Clemson University's Food, Nutrition and Packaging Science Department	Higher Education Institute	Assisted with the Healthy Lifestyles Summit and Cooking like a Chef summer day camps	2.6.1
Palmetto Conservation Foundation and the City of Columbia Animal Shelter	Non-Governmental Organization	Partnered to implement Trails and Tails hike. Almost 50 participants hiked with 18 shelter dogs. Provided bandanas and information on keeping our trails and waterways clean.	2.7.1
Natural Resources Conservation Service	Federal Government	Partnered to sponsor Cover Crops and Irrigation Management Workshop.	2.7.1
Local Soil and Water Conservation Districts	Local Government	Work with them on many soil and water conservation projects. Partner to host field day events on soil conservation, water issues, and sustainable agriculture projects.	2.2.1
Future Farmers of America	K-12 Education Institute	Agents work with a number of FFA programs/teachers around the state to provide up-to-date information to high school agriculture students about current issues in agriculture as well as educational opportunities at Clemson University or vocational opportunities with the Extension Service.	2.3.1

Lowcountry Food Bank	Non-Governmental Organization	Partnered to teach nutrition lessons during Cooking Matters Classes.	2.6.1
SC Elementary, Middle and High Schools	K-12 Education Institute	Provided educational programming, (examples: school enrichment, field trips, after school programs). In STEM education, groups design and built air powered rockets and made improvements to see how they could increase their flight distance. Students learn about agriculture and natural resource conservation.	2.6.1, 2.2.1; 2.2.2
South Carolina Master Gardeners	Professional Association	Work with 4-H Gardening Project and also with county gardening programs in the schools.	2.2.2, 2.6.1
Department of Social Service (CACFCP) Child and Adult Care Food Program	State Government	Conducted training on Building a Healthy Plate with MyPlate & CACFP meal pattern in Greenville and Richland Counties.	2.4.2
EnLIGHTen SC	Private Business Organization	Partners with the State 4-H Engineering Event.	2.6.1
Home school associations	K-12 Education Institute	Partner to provide educational programming	2.6.1
SC Department of Natural Resources	State Government	Partnered to sponsor residential wildlife and natural resources camp	2.6.1
South Carolina State Fair	Private Business Organization	This group hosts 4-H Day at the Fair and the Healthy Lifestyles Competition. This year they are hosting a 4-H Alumni Day at the fair. They host the 4-H Poultry Showmanship Award and the 4-H Rabbit Showmanship Award.	2.6.1
South Carolina's Coalition for Mathematics and Science	Private Business Organization	Work with 4-H Science on the Move	2.6.1
Tractor Supply Company	Private Business Organization	Conduct fall and spring "4-H Clover Campaigns"	2.6.1

South Carolina Farm Bureau and county bureaus throughout the state	Non-Governmental Organization	Partner to provide educational programming. They disseminate Farm Bureau information during meetings. They often act as meeting sponsors. Several agents are on the county Farm Bureau executive boards as non-voting advisors.	2.6.1, 2.3.1
USC Salkehatchie, Central Carolina Technical College	Higher Education Institute	To assist in planning and implementing programs. Partnered to provide computer coding and robotics training for teachers in some regions, developed youth water quality monitoring and other natural resources programs. Culinary Partners for SC School Foodservice Nutrition Training at Greenville Tech.	2.6.1
Quality Deer Management Association	Professional Association	Assist with the wildlife food plot project.	2.7.1
Wild at Webb	Private Business Organization	Assist with a Forestry Clinic and a summer wildlife camp.	2.6.1
Wannamaker Wildlife	Private Business Organization	Assist with the wildlife food plot project.	2.6.1
City of Columbia Community Development Division and Office of Business Opportunities	Local Government	Partnered with the City of Columbia to provide small business development training to citizens residing in the Eau Claire Redevelopment Zone.	2.5.1
USDA	Federal Government	The USDA funds Experiment Station projects. The Pee Dee REC has partnered to promote integrated land management that includes space for wildlife, farming, and forestry through the Wildlife Habitat Incentives Program (WHIP). The Pee Dee REC serves as a demonstration site to local farmers considering adding wildlife habitat to their farms. The Pee Dee REC is home to four USDA-ARS faculty members. USDA-ARS faculty study similar subjects as their Pee Dee REC counterparts, including cotton research and water management.	1.1.1, 1.2.1, 1.3.1, 1.4.1
North Carolina State University	Higher Education Institute	Pee Dee REC faculty member currently working with North Carolina State University to investigate the biology and pest status of the tobacco splitworm.	1.1.1

SC Department of Agriculture	State Government	Partner to provide educational programming	2.1.1, 2.2.1, 2.3.1, 2.5.1, 2.6.1
SC Agribiz Council	Professional Association	Partner to provide educational programming	2.1.1, 2.2.1, 2.3.1, 2.5.1, 2.6.1
AgFirst	Professional Association	Partner to provide educational programming	2.1.1, 2.2.1, 2.3.1, 2.5.1, 2.6.1
Arbor One	Professional Association	Partner to provide educational programming and funding	2.1.1, 2.2.1, 2.3.1, 2.5.1, 2.6.1
AgSouth	Professional Association	Partner to provide educational programming and funding	2.1.1, 2.2.1, 2.3.1, 2.5.1, 2.6.1
USDA Rural Development	Federal Government	Funding and program partners on the SET IV Program which is designed to develop regional agriculture, food system and rural economic development initiatives	2.5.1
Central Midlands and Santee Lynch Council of Government	Non-Governmental Organization	Funding and program partners on the SET IV Program which is designed to develop regional agriculture, food system and rural economic development initiatives	2.5.1
South Carolina State University	Higher Education Institute	Funding and program partners on the SET IV Program which is designed to develop regional agriculture, food system and rural economic development initiatives	2.5.1
Freshwater Coast Community Foundation	Non-Governmental Organization	Partnered with Clemson for rural entrepreneurship development in Abbeville, McCormick, and Southern Anderson County.	2.5.1
Catawba Farm and Food Coalition	Non-Governmental Organization	Partner to promote the purchase of locally grown and produced foods, to keep valuable agricultural land in production, to ensure the economic viability of farms, to benefit public and environmental health and to strengthen our regional economy.	2.5.1

The Midlands Local Food Collaborative	Non-Governmental Organization	The group includes participants from 11 federal, state, local, academic, and non-profit organizations who meet monthly to coordinate regional food system efforts for the Midlands of SC.	2.5.1
USDA APHIS VS	Federal Government	Livestock & Poultry Animal Health disease prevention, surveillance, control and eradication	3.1.1, 3.2.1, 3.3.1
USDA FSIS	Federal Government	Matching funds and oversight of state meat inspection	3.2.1
Clemson University Police Department	Local Government	Serves as training support, firearms, legal update, maintain officer personnel files. Through their terminal load DPR arrest warrants into the NCIC database.	4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10.
SC Dept. of Natural Resources	State Government	Often conduct joint criminal investigations of environmental crimes with DNR Law Enforcement. Partner to prevent and control wildlife diseases	4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10, 3.1.1, 3.2.1, 3.3.1
US EPA	Federal Government	Through a cooperative agreement, DPR serves as the State Lead Agency charged with investigating civil and criminal violations of the Federal Insecticide, Fungicide and Rodenticide Act.	4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10
SC State Diagnostic and Veterinary Lab	State Government	Provides laboratory analysis of investigative samples pertaining to domestic or animal kills as a result of accidental or intended pesticide poisonings. Also performs all necropsies on animals that are suspected of being intentionally, illegally poisoned by a pesticide	4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10
SC Attorney General	State Government	DPR CID maintains a close working relationship with Assistant Attorney General assigned to environmental crimes. AG provides legal advice, assists in the drafting of search and arrest warrants, prosecutes all DPR cases assigned to General Sessions Trials, and prepares Departmental indictments for officer testimony in front of the Grand Jury.	4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10
SC Dept. of Agriculture	State Government	DPR works closely with the DoA as a result of mutual interests concerning SC agriculture. Partners with the Agribusiness Team to grow the agriculture industry in SC overall in commercial agriculture production and local food systems.	2.1.1, 2.3.1, 2.4.2, 2.5.1, 4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10

SC DHEC	State Government	DPR - CID and DHEC Office of Criminal Investigations work as part of a Federal Task Force on Environmental Crimes. Each agency has a law enforcement officer that has been sworn in as a Special Deputy United States Marshal. DPR and DHEC routinely share information and develop protocols for environmental events such as protocols and contingency plans for dealing with the Zika virus. Prevent and control zoonotic diseases.	4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10, 3.1.1, 3.2.1, 3.3.1
SCPCA	Professional Association	Work closely with SCPCA which is a member-funded, non-profit organization committed to protecting public health, food and property from pests.	4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10
AAPCO	Professional Association	Oversees the State FIFRA Issues Research and Evaluation Group (SFIREG). SFIREG and it's working committees provide a platform for the states and EPA to resolve challenges to successful implementation of pesticide programs and policies in the USA and territories.	4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10
ASPCRO	Professional Association	Promote better understanding and efficiency in the administration of laws and other written documents of regulatory authority between states concerning the control and eradication of pests of structures and their immediate environs.	4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10
SLED	State Government	DPR and the SC Law Enforcement Division have developed an exceptional working relationship by way of a seamless exchange of information with the agents that operate the Fusion Center. SLED provides potential lifesaving information through NCIC data and criminal history information of targets of criminal investigations. DPR – CID law enforcement all hold their commission through SLED.	4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10
Criminal Justice Academy	State Government	Provides initial training and certification of all DPR certified law enforcement officers. SCCJA provides periodic training and yearly re-certifications.	4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10
SC DMV	State Government	Supplies crucial vehicle and driver information which enables DPR to run vehicle license plates. Access to this restricted information is through a joint agreement between DPR, DMV and SLED.	4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10
ES EPA	Federal Government	Criminal Investigations Division Special Agents routinely work with DPR law enforcement where the interests of the state of SC and the United States Government coincide.	4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10

EPA CID	Federal Government	Provides periodic firearms trainings, presents talks on the fourth amendment. Special agents accompany DPR law enforcement on occasion into the field to work parallel investigations.	4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10
US Dept. of Homeland Security	Federal Government	Has on multiple occasions ask for the assistance of DPR agents to run joint investigations where pesticides are being shipped illegally into the US from other countries of origin.	4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10
US Customs and Border Patrol	Federal Government	Contact DPR agents when shipments of mis-branded, illegal or otherwise questionable pesticides are processed the Customs.	4.1.1, 4.1.2, 4.2.1, 4.2.2, 4.3.1, 4.4.1, 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.9.1, 4.10

Agency Name: **Clemson University PSA**

Fiscal Year 2015-16
Accountability Report

Agency Code: **P200** Section: **045**

Report Template

Item	Report Name	Name of Entity Requesting the Report	Type of Entity	Reporting Frequency	Submission Date (MM/DD/YYYY)	Summary of Information Requested in the Report	Method to Access the Report
1	Research and Extension Annual Plan of Work	National Institute of Food and Agriculture	Federal	Annually	4/1/2016	Annual Plan of Work	http://portal.nifa.usda.gov/web/areera/plans/2015-2019/2015-South-Carolina-State-University-and-Clemson-University-Combined-Research-and-Extension-Plan-of-Work.pdf
2	Research and Extension Annual Report of Accomplishments	National Institute of Food and Agriculture	Federal	Annually	4/2/2016	Annual Report of Accomplishments	http://portal.nifa.usda.gov/web/areera/Reports/2013/2013-Clemson-University-and-South-Carolina-State-University-Combined-Research-and-Extension-Annual-Report-of-Accomplishments-and-Results.pdf
3	Project Financial Report	National Institute of Food and Agriculture	Federal	Annually	1/5/2016	Annual Financial Report	https://portal.nifa.usda.gov/portal/front/home
4	McIntire-Stennis Program of Research	National Institute of Food and Agriculture	Federal	Annually	7/19/2016	Annual McIntire-Stennis Project Reporting	https://portal.nifa.usda.gov/portal/front/home
5	Animal Health Program of Research	National Institute of Food and Agriculture	Federal	Annually	9/15/2016	Annual Animal Health Project Reporting	https://portal.nifa.usda.gov/portal/front/home
6	Animal Health Capacity Worksheet	National Institute of Food and Agriculture	Federal	Annually	1/8/2016	Annual Animal Health Financial Reporting	Report Submitted via Email
7	Mid-Year Report	EPA	Federal	Annually	7/31/2016	Excel template with 5700 Main, 5700 WPS , and 5700 CC (container/containment), 5700 Page 2 Quarterly Reports for: Groundwater, WPS, Recertification, Producer Establishments, IPM, and Pesticide Container Recycling.	EPA and hard copy in office
8	Federal Year-End Report	EPA	Federal	Annually	10/31/2016	Excel template with 5700 Main, 5700 WPS , and 5700 CC (container/containment) 5700 Page 2	EPA and hard copy in office
9	Year-End Report	EPA	Federal	Annually	1/31/2017	Excel template with 5700 Main, 5700 WPS , 5700 CC(container/containment), and Outcomes for the Work Plan approved by EPA 5700 Page 2 Quarterly Reports for: Groundwater, WPS, Recertification, Producer Establishments, IPM, and Pesticide Container Recycling.	EPA and hard copy will be available in office
10	Annual Report	AOSCA	Outside Organization	Annually	1/1/2017	Annual summary of the seed certification program. AOSCA sets the national standards for seed certification.	Published on AOSCA website
11	Annual Report	AAPFCO	Outside Organization	Annually	1/1/2017	Annual summary of the fertilizer tonnage program. AAPFCO sets the national standards for fertilizer.	Published on AAPFCO website (Administration portal) http://www.aapfoc.org

Agency Name: **Clemson University PSA**

**Fiscal Year 2015-16
Accountability Report**

Agency Code: **P200** **Section:** **045**

Oversight Review Template

Item	Name of Entity Conducted Oversight Review	Type of Entity	Oversight Review Timeline (MM/DD/YYYY to MM/DD/YYYY)	Method to Access the Oversight Review Report
1	USDA-NIFA Equal Opportunity Staff	Federal	03/29/2016 to 04/05/2016	Report Not Yet Received
2	Edisto Forage Bull Test	Outside Organization	2015 to 2016	Report Can Be Mailed
3	Expanded Food and Nutrition Education Program (EFNEP)	Internal	2015 to 2016	Report Can Be Mailed
4	Payroll - Compensatory Time and Kronos Timekeeping	Internal	2015 to 2016	Report Can Be Mailed
5	Procurement - Procurement Card	Internal	2015 to 2016	Report Can Be Mailed
6	Procurement Services - buyWays	Internal	2015 to 2016	Report Can Be Mailed