

<b>AGENCY NAME:</b>	Clemson University PSA		
<b>AGENCY CODE:</b>	P200	<b>SECTION:</b>	45

## Fiscal Year 2018–2019 Accountability Report

### SUBMISSION FORM

<b>AGENCY MISSION</b>	<p>Clemson Public Service and Agriculture (PSA) is a state agency comprised of four units: Clemson Experiment Station, Clemson Cooperative Extension Service, Livestock and Poultry Health, and Regulatory Services. Clemson PSA safeguards the health and safety of livestock, poultry and companion animals and protects the food supply and public health of South Carolinians through its Livestock Poultry Health division, while PSA's Regulatory Services division ensures the safe, effective use of fertilizers and pesticides, and the quality of seeds and plants grown in the state and conducts programs that prevent agroterrorism. Clemson PSA works collaboratively with Clemson's College of Agriculture, Forestry and Life Sciences to conduct research and outreach through the Clemson Experiment Station and Clemson Cooperative Extension Service.</p>
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<b>AGENCY VISION</b>	<p>To be acknowledged as the foremost provider of practical new discoveries, outreach and education, and technical assistance in the areas of agrisystems productivity and profitability, agribusiness, environmental and natural resources, 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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Does the agency have any major or minor recommendations (internal or external) that would allow the agency to operate more effectively and efficiently?

	Yes	No
<b>RESTRUCTURING RECOMMENDATIONS:</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Is the agency in compliance with S.C. Code Ann. § 2-1-230, which requires submission of certain reports to the Legislative Services Agency for publication online and the State Library? See also S.C. Code Ann. § 60-2-30.

	Yes	No
<b>REPORT SUBMISSION COMPLIANCE:</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<b>AGENCY NAME:</b>	Clemson University PSA		
<b>AGENCY CODE:</b>	P200	<b>SECTION:</b>	45

Is the agency in compliance with various requirements to transfer its records, including electronic ones, to the Department of Archives and History? See the Public Records Act (S.C. Code Ann. § 30-1-10 through 30-1-180) and the South Carolina Uniform Electronic Transactions Act (S.C. Code Ann. § 26-6-10 through 26-10-210).

<b>RECORDS MANAGEMENT COMPLIANCE:</b>	<b>Yes</b>	<b>No</b>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>

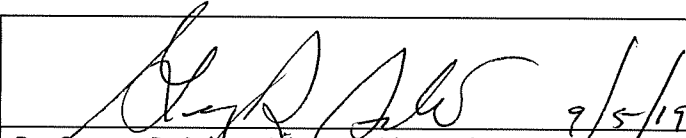
Is the agency in compliance with S.C. Code Ann. § 1-23-120(J), which requires an agency to conduct a formal review of its regulations every five years?

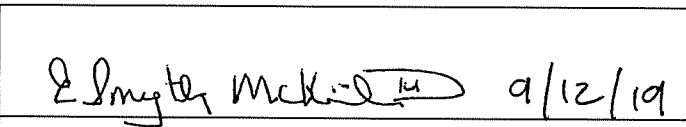
<b>REGULATION REVIEW:</b>	<b>Yes</b>	<b>No</b>
	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please identify your agency's preferred contacts for this year's accountability report.

	<u>Name</u>	<u>Phone</u>	<u>Email</u>
<b>PRIMARY CONTACT:</b>	Dr. George R. Askew	864-656-3140	gaskew@clemson.edu
<b>SECONDARY CONTACT:</b>	Dr. Susan T. Guynn	864-656-0606	sguynn@clemson.edu

I have reviewed and approved the enclosed FY 2018–2019 Accountability Report, which is complete and accurate to the extent of my knowledge.

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

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

<b>AGENCY NAME:</b>	<b>Clemson University PSA</b>		
<b>AGENCY CODE:</b>	<b>P200</b>	<b>SECTION:</b>	<b>45</b>

### AGENCY’S DISCUSSION AND ANALYSIS

Clemson University [Public Service and Agriculture](#) (PSA) has responsibilities related to two-thirds of the land-grant mission of Clemson University: research and outreach. The current structure of PSA consists of four units: Clemson Experiment Station, Clemson Cooperative Extension Service (CES), Livestock and Poultry Health (LPH) and Regulatory Services (RS). These four units work together seamlessly to help promote and protect the agriculture and forest industries in South Carolina, which are, collectively, a \$41.7 billion industry, supporting over 200,000 jobs. Additionally, research and outreach is conducted to promote the well-being of citizens through improved nutrition, food safety practices and positive youth development.

To support these efforts, PSA has institutes and centers that are focused on critical areas: Animal Coproducts Research and Education Center, Archbold Tropical Research and Education Center, Institute of Translational Genomics, South Carolina Water Resources Center and Wood Utilization + Design Institute. Additionally, the Clemson Experimental Forest and the South Carolina Botanical Gardens fall under the umbrella of PSA. The Clemson Experimental Forest is a 17,500-acre working forest that surrounds campus and is utilized for teaching, research, and outreach. The South Carolina Botanical Garden, also adjacent to campus, is a 295-acre sanctuary for the purpose of re-engaging people with nature.

PSA is led by the Vice President for PSA, Dr. George R. Askew, and the Dean of the College of Agriculture, Forestry, and Life Sciences (CAFLS) and Associate Vice President for PSA, Dr. Keith L. Belli. The four units of PSA are led by: Dr. Paula Agudelo, CAFLS Associate Dean for Research and Director of the Experiment Station; Dr. Stephen Cole, Director of Regulatory Services; Dr. Thomas R. Dobbins, CAFLS Associate Dean of Outreach and Engagement and Director of Clemson Cooperative Extension Service; and Dr. Boyd Parr, State Veterinarian and Director of Livestock and Poultry Health (see Figure 1 for the PSA Organizational Chart).

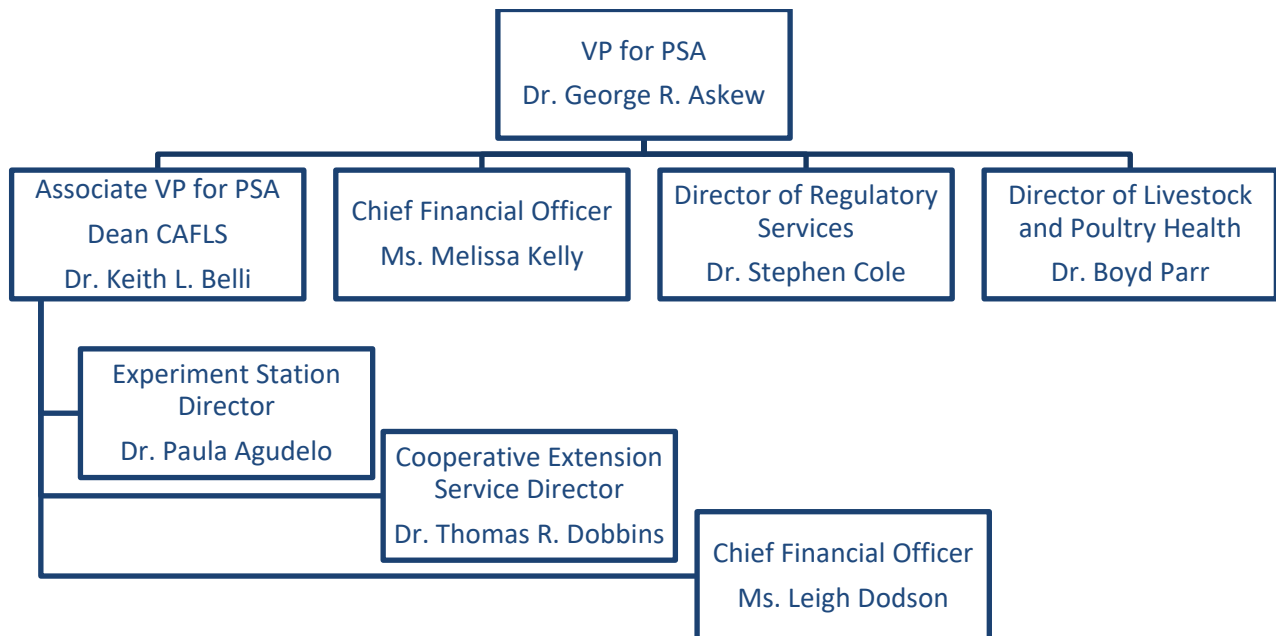


Figure 1. Public Service and Agriculture Organization Chart (Revised 5/21/2019)

<b>AGENCY NAME:</b>	<b>Clemson University PSA</b>		
<b>AGENCY CODE:</b>	<b>P200</b>	<b>SECTION:</b>	<b>45</b>

**EXPERIMENT STATION** (<http://www.clemson.edu/cafls/research>)

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 success with regard to the work of Experiment Station scientists to acquire limited funding. In addition to funding achievements, the number of educational programs and published peer-reviewed journal articles has increased. Over the past year, there has been increased focus on integrating the research and education missions of the Experiment Station. There has been an increase in the number of graduate students, many of them advised or co-advised by faculty located at the Research and Education Centers (RECs). For FY2018-19, the Clemson Experiment Station has been active in multiple research areas. A brief overview of just a few of the projects include the following:

Peaches - To help South Carolina peach growers produce bountiful yields, scientists at Clemson University along with CES agents met with growers to present the latest research-based information, with diseases being one of the main topics. Streaking or “Tiger Stripes” and Armillaria root rot were two of the diseases researchers are studying. The presence of Tiger Stripes was particularly significant in 2018 and caused severe damage to peach crops. Researchers found susceptibility to streaking depends on cultivar, maturity stage and rainwater quality. Studies are ongoing to identify a solution for Armillaria root rot, a soil-borne fungus which has cost millions of dollars in crop losses and has no identified controls to date.

Row Crops - A research sensor engineer at Clemson’s Edisto Research and Education Center is designing a cost-effective harvester attachment for an Unmanned Ground Vehicle (UGV) or robot to help reduce costs associated with labor and increased pest resistance. The robotic harvester can be programmed to perform selective harvesting before pests or weeds have an opportunity to take over. The harvester was tested within the first three months of its development, and ongoing tests to continuously improve the new technology are being conducted.

Plant-Based Proteins - Researchers at Clemson University have received one of the first-ever plant-based protein competitive research grants to study how field peas and grain sorghum can be organically grown to become the next generation of nutrient-dense plant-based proteins. Consumer demand for organically grown plant-based protein is increasing, partly driven by growing interest in allergen- and gluten-free markets. Field peas are an excellent source of plant-based protein, and sorghum is a gluten-free ancient grain that has tremendously diverse nutritional traits. Researchers are attempting to optimize a specific type of organic system that is most conducive for crops in our region.

**COOPERATIVE EXTENSION SERVICE** (<https://www.clemson.edu/extension/>)

The mission of the Cooperative Extension Service (CES) is to improve the economy, environment and well-being of South Carolinians through the delivery of unbiased research-based information and education, which fulfills the land-grant university mission. Without CES, Clemson University would not be able to obtain its three directives of teaching, research, and outreach. Clemson Extension has offices in all forty-six counties in the state in order to meet the diverse needs of communities. The exchange between field and campus staff informs the research agenda, ensuring that program development addresses relevant needs of South Carolinians. While it is not possible to adequately report all of the accomplishments by CES across the state, several innovative statewide initiatives are highlighted in below.

Land-Grant Press by Clemson Extension: [Land-Grant Press by Clemson Extension](#) provides science-based, peer-reviewed publications written by Extension personnel and university scientists for professional stakeholder audiences, including livestock, equine and forestry owners and managers. The variety of Land-Grant Press publication types feature expert content from the array of CES’s public

<b>AGENCY NAME:</b>	<b>Clemson University PSA</b>		
<b>AGENCY CODE:</b>	<b>P200</b>	<b>SECTION:</b>	<b>45</b>

outreach programs including agriculture, natural resources, horticulture, agribusiness, food safety, health and nutrition and youth development. Two primary needs fulfilled by Land-Grant Press include: (1) a centralized online repository of Extension publications written for these target audiences, and (2) a rigorous and structured peer-review process to ensure the output of scholarly products. The content published through Land-Grant Press is disseminated broadly through a dynamic, mobile-friendly website. Land-Grant Press is being developed with the intent to create a renowned model of excellence that will propel CES into national stature for elevation of the quality and delivery of refereed Extension publications.

Master Pond Manager: Of all natural resources, water resources in South Carolina provide opportunities and fulfill needs for agriculture, recreation, tourism and commercial industry that help support the state’s economy. The successful management of South Carolina’s waterways, including recreational pond and stormwater pond management, is imperative to preserving the integrity of our water resources and economic vitality. Poorly managed pond systems can impact downstream waterways and impair the health of the pond and in turn, the services the pond provides to the landowner. In the eight coastal counties of South Carolina alone there are more than 20,000 recreational and stormwater ponds. Clemson Extension has a long history in delivering impactful pond management outreach, but feedback through programs and focus groups showed an interest in the availability of more intensive training through electronic or online delivery methods. To meet this need, Clemson Extension launched the Master Pond Manager (MPM) program in 2015. The program is a multi-week online and field-based course providing stormwater and recreational training to pond owners and management professionals. The MPM program provides participants with the tools needed to develop an integrated pond management plan that provides for healthy pond function. Course curriculum can be tailored to the individual participant’s needs and role in management, as well as the pond system being managed. The syllabus can include content in: (1) pond design, inspection, and maintenance; (2) limnology and water quality monitoring; (3) integrated aquatic plant management; (4) maintaining a balanced ecosystem and supporting diverse wildlife; (5) fish management, and (6) pond retrofits and land-based best management practices to support pond health. To date, more than 270 people have participated in the eight different class offerings, and over eighty professionals have been certified as Master Pond Managers. Field days were scheduled throughout the state, resulting in the installation of series demonstration sites that showcased pond best management practices, including vegetated buffers and floating treatment wetlands. Next steps for the Master Pond Manager program include the development of a series of “Short Course” special topic trainings, including a dam inspection and maintenance training developed in partnership with the South Carolina Department of Health and Environmental Control and Natural Resource Conservation Service. For more information on the Master Pond Manager program, please visit: [www.clemson.edu/mpm](http://www.clemson.edu/mpm).

Agribusiness: Agriculture is a \$41 billion business in South Carolina. Therefore, programs focused on helping farmers achieve financial success is imperative. Three statewide initiatives to be highlighted in FY 2018-2019 are: Farm Risk Management workshops, Ag + Art Tours, and Agribusiness Planning. The Extension Agribusiness Team continues to develop farm risk management workshops and deliver core programs for South Carolina farmers. Agriculture is experiencing a down cycle with the combination of low prices and a string of disasters four out of the last five years. Four different statewide programs were offered to help farmers and industry professionals manage production, marketing and policy risk. The 3<sup>rd</sup> Annual South Carolina Ag Outlook Conference was held November 15, 2018 for agricultural lenders and industry professionals with fifty-one attendees representing two farm credit associations, Farm Service Agency, banks, a grain brokerage, and the South Carolina Department of Agriculture. Attendees represented an estimated two-thirds of the agricultural lenders in South Carolina. Presentations by the Extension Agribusiness Team included commodity outlooks, overview of the financial situation, and alternative enterprises for bees, goats and industrial hemp. The 20<sup>th</sup> Annual Executive Marketing Seminar was held January 8-10, 2019. The purpose of the seminar was to teach

<b>AGENCY NAME:</b>	<b>Clemson University PSA</b>		
<b>AGENCY CODE:</b>	<b>P200</b>	<b>SECTION:</b>	<b>45</b>

attendees how to develop a marketing plan, and twenty-four crop growers attended. Topics included fundamental and technical market analysis, using weather data, mega trends for 2019-2025, success in cyclical economics, crop insurance refresher, and putting the plan on paper. The 2018 Budget Reconciliation Act amended the 2014 Farm Bill and added seed cotton as a program crop beginning with the 2018 season. This meant generic base was eliminated and farmers and landowners had to make decisions related to crop base allocation on generic base acreage (old cotton base) and ARC/PLC program election. An in-service training was held for Extension Agents, and five regional workshops were held in October 2018 in cooperation with the Farm Service Agency to educate farmers on the decisions they had to make by the end of the year, as well as provide example analyses. Over 200 participants attended the workshops. A total of 375,000 base acres were reallocated in South Carolina under the seed cotton program with a potential total payment of \$13.5 million in 2019 under the ARC/PLC program election.

The South Carolina Ag + Art Tour is an agritourism program held each weekend in June that combines farm tours, and art exhibits and shows. The tour was established in York County in 2012 by Clemson Extension and the Olde English Tourism District. The event has grown to include over ninety farms, 250 artisans and 200 volunteers across ten counties in 2019. The South Carolina Ag + Art Tour is a free, self-guided tour, the largest free tour of its kind in the US, with over 30,000 visitors since 2012. The tour has created an opportunity to increase purchases of locally grown food through new producer-consumer relationships. The tour included farms that have not historically implemented agritourism strategies in their business plan. Utilizing this business opportunity will help to reduce some of the financial risks associated with ag-based businesses.

Education and assistance in the area of agribusiness planning were delivered by the Agribusiness Team through four programs, the South Carolina New and Beginning Farmer Program (SCNBFP), Feeding Innovation Healthy Foods Initiative, Annie's Project and the ACRE Business Curriculum. The SCNBFP is focused on enabling new and beginning farmers to be successful, productive, and innovative members of their local agricultural community. Fourteen workshop sessions were designed to provide the tools, knowledge and skills necessary to be successful entrepreneurs, sound business managers, exemplary stewards of SWAPA (soil, water, air, plants, and animals) and successful marketers. There were forty-five graduates in May 2019. Feeding Innovation is a small business training program targeted to food business startups or in the idea stage. Feeding Innovation was created by the South Carolina Community Loan Fund and collaborates with the Extension Agribusiness Team to deliver an 8-week course. Participants develop business plans with instruction on financial planning, operations management, law and regulation, marketing and more. At the conclusion of the program, participants have a unique opportunity to compete for \$12,500 in seed capital by pitching their ideas to a panel of judges. There were eleven graduates in 2019. The 2019 Annie's Project was held in Hartsville, South Carolina. A total of twenty women from around the state learned about farm business management over four days. Participants were a diverse mix of experience, farm enterprises, age and geographic location. The program focuses on leadership, networking, and risk management basics presented by the Extension Agribusiness Team and sponsors from AgSouth Farm Credit, ArborOne Farm Credit and the Farm Service Agency. A new agribusiness planning curriculum was developed in 2019 by the Extension Agribusiness Team for budding agribusiness innovators and entrepreneurs. The program teaches the business planning process and how to best manage an agricultural business covering pre-planning, marketing, pricing, cost of production, profitability, financial statements, and management. The curriculum was delivered by the Extension Agribusiness Team as part of the South Carolina Department of Agriculture's ACRE program. Fifteen individuals were selected for the curriculum program delivered over five day-long class sessions. Participants pitched their business plans to an agribusiness panel for the opportunity to win \$5,000.

<b>AGENCY NAME:</b>	<b>Clemson University PSA</b>		
<b>AGENCY CODE:</b>	<b>P200</b>	<b>SECTION:</b>	<b>45</b>

**LIVESTOCK AND POULTRY HEALTH** (<http://www.clemson.edu/lph/>)

The Livestock and Poultry Health (LPH) programs protect the health of food animals, other livestock, and companion animals by conducting constant surveillance for diseases that affect both people 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. A 2015 study reported that animal agriculture contributes \$14.5 billion to South Carolina’s overall economy, with over 58% of direct farm sales in South Carolina agriculture. National Agricultural Statistics Service (NASS) 2017 data indicate that the direct sales percentage from animal agriculture has risen to almost 64%. 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. In FY19, Animal Health Programs personnel made 914 inspections at livestock auction markets, after-hours markets, dealers, farms, and miscellaneous sales such as flea markets. These inspections are part of the requirement for maintaining the state’s “disease free” status and are coordinated with the United States Department of Agriculture (USDA).

Virulent Newcastle Disease (vND – formerly exotic Newcastle Disease) was found in California in the Spring of 2018, the first confirmed cases of vND in the US since 2003. As of August of 2019, efforts continue to try to eradicate vND from California and restore the US’s vND free status once again. African Swine Fever (ASF) continues its spread in Asia and Europe and has devastated pig farms in China, home to 49% of the world’s pigs, since first appearing there in September of 2018. Preventing ASF from entering the US is currently a top priority for state and federal animal health officials along with preparing to respond to ASF if it does. LPH is active in the efforts to promote management practices that reduce the likelihood of introduction, assure early detection, and prepare robust response should vND, ASF or any other foreign or emerging diseases threaten South Carolina livestock and poultry. “Disease free” status improves access to both interstate and international markets. The state veterinarian signed 252 letters this year certifying SC’s status for poultry enabling import to certain countries. South Carolina chicken exports were valued at \$202 million in 2017 (U.S. Census Bureau).

As lead agency for Emergency Support Function 17 (ESF-17), LPH coordinates agricultural/animal issues under the South Carolina Emergency Operations Plan with a heavy reliance on PSA partners Regulatory Services and Clemson Cooperative Extension Service. Between September 9 and 28, 2019, the South Carolina Emergency Operations Center (SCEOC) ESF-17 desk operations for Hurricane Florence required 922 man-hours and 8,455 miles driven by PSA employees for largely 24/7 operations at the SCEOC during activation. Countless others contributed as ESF-17 worked to coordinate preparation, response and recovery from this storm and ensuing floods. Planning and response efforts helped minimize loss of life for South Carolina livestock and pets despite the damage done to crops and infrastructure by the post hurricane flooding.

With continued leadership from LPH veterinarians, the South Carolina Veterinary Reserve Corps (SCVRC) is organized by the South Carolina Association of Veterinarians under the auspices of the Surgeon General’s Medical Reserve Corps. Almost sixty veterinarians, veterinary technician, animal handler or veterinary practice manager volunteers have signed on and are being trained. The SCVRC members are a resource for emergency managers at local, regional and state levels with animal and agriculture issues in disasters.

LPH is expanding on the role it played in creating the Mid-Atlantic Secure Milk Supply Project, a regional plan developed in collaboration with all South Carolina dairy industry segments and neighboring states to mitigate potential economic losses of participating farms in the event of a foot and mouth disease outbreak. Secure Food Supply Plans for Poultry, Pork and Beef are now also at varying stages of development in South Carolina to promote business continuity during emergency disease events in those sectors as well.

<b>AGENCY NAME:</b>	<b>Clemson University PSA</b>		
<b>AGENCY CODE:</b>	<b>P200</b>	<b>SECTION:</b>	<b>45</b>

The Veterinary Diagnostic Center, the only accredited full service veterinary diagnostic laboratory in the state, completed 92,887 tests and procedures during FY18-19 in performing its animal and food safety diagnostic duties. Of these, 91,715 (over 98%) were related to production animals and regulatory duties; the remaining 1,172 were from companion animals and wildlife.

South Carolina Meat-Poultry Inspection completed its annual audit by USDA Food Safety Inspection Service. This review is to ensure a safe meat supply. The South Carolina program continues to meet or exceed the federal requirements. Department activities included 100% online inspection during slaughter operations on 2,048 slaughter days that processed 37,125 livestock and more than 3.4 million poultry. Additionally, the department performed 43,744 individual inspection procedures during inspection in seventy-three slaughter and processing facilities served.

LPH ensure's South Carolina's concerns are discussed at the national and international level. Professional staff served in many roles including as Past-President of the United States Animal Health Association (USAHA), American Veterinary Medical Association (AVMA) Animal Agriculture Liaison Committee, National Animal Health Laboratory Network (NAHLN) Coordinating Council, Facilitator and Co-Chair of the AAVLD (American Association of Veterinary Laboratory Diagnosticians)/USAHA Subcommittee on Animal Health Data Standards, National Assembly Subcommittee for approval of eCVI (electronic Certificate of Veterinary Inspection) vendors, National Poultry Improvement Plan (NPIP) Coordinating Council, Co-Chair of USAHA Committee on Animal Emergency Management, South Carolina Delegate in AVMA House of Delegates, Past-President of American Association of Small Ruminant Practitioners and President of American Association of Extension Veterinarians during the past FY.

**REGULATORY SERVICES** (<https://www.clemson.edu/public/regulatory/index.html>)

Regulatory Services serves to protect the state from exotic and invasive species; ensure proper application of pesticides, regulate the structural pest control industry; verify that fertilizer and lime meet standards and label guarantees; conduct programs for seed and organic certification; provide diagnosis of plant pests and diseases and ensure readiness to respond to an agro-terrorism event impacting the state's agricultural industry. To highlight the department's activities for 2018 and into 2019, the following events are offered as an indicator of impact.

Hurricane Response: Regulatory and Public Service Programs played an integral role in manning the South Carolina Emergency Operations Center (SCEOC) during the 2018 hurricane season. Regulatory personnel manned the EF-17 SCEOC desk by fielding calls, coordinating and serving as a liaison between the citizens of South Carolina, SC agriculture and other state agencies, substantially lessening the blow from both Hurricanes Florence and Michael, which hit South Carolina only weeks apart. Regulatory agents were involved in recognizing needs and supported delivering assets where needed.

Fertilizer and Nursery Programs (Department of Plant Industry): The Department of Plant Industry's Fertilizer Program collected 2,911 fertilizer samples with 268 samples being deficient. The calculated deficiency rate for the year was 9.2%. The target deficiency rate was 20%. Fertilizer tonnage was reported at 442,643 tons; a decrease of approximately 150,000 tons from the previous year. The state's mandated regulatory program continues to serve growers in providing an unbiased quality assurance of fertilizer and related agricultural inputs. Six hundred fourteen nursery growers were inspected for an inspection rate of 100%. A total of 362 nursery dealers were inspected, which exceeded the goal of 353 nursery inspections between January 2018 and December 2018. All growers and dealers were either in compliance or were brought into compliance after inspection. The nurseries that were not inspected were classified as hobbyists rather than commercial nurseries.



<b>AGENCY NAME:</b>	<b>Clemson University PSA</b>		
<b>AGENCY CODE:</b>	<b>P200</b>	<b>SECTION:</b>	<b>45</b>

Pesticide Programs (Department of Pesticide Regulation): The Department of Pesticide Regulation's (DPR) School Compliance Program, designed to contact and inspect all applicators that are either contracted to or employed by school districts, has been in place since mid-2013. Compliance inspectors have collected pesticide application records for over 885 schools since mid-2013, which are reviewed by the Reduced Risk Specialist and logged for future reference. In the past fiscal year, the Reduced Risk Specialist provided twelve trainings for school districts across the state and was attended by 458 school district employees. Eight of the trainings were aimed at food service employees, and four were designed for landscaping and grounds employees. During the last fiscal year, applicators contracted to perform pest control activities at schools in twelve Districts were inspected in the following categories: Commercial Lawn Care Operators (14), Non-Commercial Lawn Care Operators (5) and Commercial Pest Control Operators (14).

Regulatory Agriculture Services Laboratories: The Regulatory Agriculture Services Laboratory consists of two units: (1) Agriculture Service Laboratory, and (2) the Plant and Pest Diagnostic Clinic. The Agriculture Service Laboratory provides a variety of analytical agricultural testing such as, soil sample analysis, feed and forage nutritional analysis, plant tissue analysis and other services. In FY2018-2019, the Agriculture Services Laboratory processed 59,171 samples (see Table 1). The Plant and Pest Diagnostic Clinic is a multi-disciplinary program which provides diagnoses and management recommendations for plant and turf problems, which include diseases, nematodes, weeds, environmental issues, nutritional deficiencies, and insect pests of plants. The Plant Pest Diagnostic Clinic processed 4,233 samples (see Table 2):

Table 1. Agriculture Service Lab FY 2018-2019 processed samples report

<b>Lab Service</b>	<b>Samples Analyzed</b>	<b>Lab Service</b>	<b>Samples Analyzed</b>
Soil	45,218	Compost	35
Animal Waste	650	Irrigation Water	575
Plant Tissue	468	Feed and Forage Nutrition	650
Other (research and commercial customers)	17,237		

Table 2. Plant and Pest Diagnostic Clinic FY 2018-2019 processed samples report

<b>Clinical Service</b>	<b># Samples</b>	<b>Clinical Service</b>	<b># Samples</b>
Disease ID or Abiotic Issues	865	Insect or Mite ID	125
Weed and Plant ID	89	Molecular Plant Pathogen Detection Laboratory	129
Commercial Turf Clinic	86 samples and 2,939 nematode samples		

Agency Name:	CLEMSON UNIVERSITY - PSA		
Agency Code:	P200	Section:	45

Fiscal Year 2018-2019

Strategic Planning and Performance Measurement Template

Statewide Enterprise Strategic Objective	Type	Item #			Description	2018-19			Time Applicable	Data Source and Availability	Calculation Method	Meaningful Use of Measure
		Goal	Strategy	Measure		Base	Target	Actual				
	G	1			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			Enhance research prominence in focus areas that maintain and support the growth of South Carolina's agriculture and forest industries.							
Education, Training, and Human Development	M		1.1.1		The number of research proposals and funding requests submitted to granting agencies	155	250	377	July 1 - June 30	INFO-ED	Total number count	A tangible measurement of the value of research and technology to the scientific community and the public.
Education, Training, and Human Development	M		1.1.2		The number of research proposal funded extramurally	130	150	153	July 1 - June 30	INFO-ED	Total number count	A tangible measurement of the value of research and technology to the scientific community and the public.
Education, Training, and Human Development	M		1.1.3		The number of technical contributions related to research	78	90	95	July 1 - June 30	Experiment Station Data	Total number count	A tangible measurement of the value of research and technology to the scientific community and the public.
	S	1.2			Strengthen applied research through connections between Clemson University scientists and growers.							
Education, Training, and Human Development	M		1.2.1		Research proposals that respond to the needs of commodity boards	50	60	58	July 1 - June 30	INFO-ED	Total number count	A tangible measurement of the value of research and technology to the scientific community and the public.
	S	1.3			Improve undergraduate and graduate education experiences offered at RECs.							
Education, Training, and Human Development	M		1.3.1		Number of graduate students recruited and retained	137	150	154	July 1 - June 30	Office of Institutional Research	Total number count	A tangible measurement of the value of research and technology to the scientific community and the public.
	G	2			The Clemson Cooperative Extension Service will improve the economy, environment, and well-being of South Carolinians through the delivery of unbiased research-based information and education.							
	S	2.1			Develop and implement agricultural production systems that are economically sustainable and environmentally sound (Agrisystems Productivity and Profitability)							
Education, Training, and Human Development	M		2.1.1		Number of acres in South Carolina impacted as a result of Extension programs	New Metric	455,157	455,157	July 1- June 30	Clemson University Management Information System (CUMIS)	# of acres impacted by Extension programs. The acreage may be impacted from improved practices, alternative crops planted, application of integrated crop management strategies and other land management strategies.	Demonstrates the statewide impact of Extension programs across the State.

Statewide Enterprise Strategic Objective	Type	Item #			Description	2018-19			Time Applicable	Data Source and Availability	Calculation Method	Meaningful Use of Measure
		Goal	Strategy	Measure		Base	Target	Actual				
Education, Training, and Human Development	M		2.1.2		Number of producers implementing Best Management Practices for livestock and forage production	New Metric	400	454	July 1- June 30	CUMIS	# of producers that self-reported implementation of a BMP. This may include implementation of EPD, following recommended grazing management systems, or establishment of improved forage cultivars.	A measure of producers that implemented practices as a result of Extension programs.
	S		2.2		<b>Agribusiness and Agricultural Workforce Development (Agribusiness)</b>							
Education, Training, and Human Development	M		2.2.1		Number of people served through workshops, one-on-one meetings, online resources and other media outlets	New Metric	200,000	242,549	July 1- June 30	CUMIS	# people served through direct and indirect methods.	Demonstrates the reach of the agribusiness and ag workforce development efforts across the state.
Education, Training, and Human Development	M		2.2.2		Percentage of people reporting a gain in knowledge from workshops	New Metric	75%	82%	July 1- June 30	CUMIS	# of people that reported a gain in knowledge as a result of the workshops.	Demonstrates a change in knowledge.
	S		2.3		<b>Conserve and protect all natural resources throughout South Carolina through education and implementation of best management practices (Environmental and Natural Resources Conservation)</b>							
Education, Training, and Human Development	M		2.3.1		Percent of landowners, homeowners, land managers, biologists, engineers, water resources managers and private citizens utilizing practices taught during programs and workshops.	48%	50%	93%	July 1- June 30	CUMIS	# of participants reporting that they implement knowledge divided by number of participants	Impact on change in behavior and actions as a result of workshops and information presented.
Education, Training, and Human Development	M		2.3.2		Number of acres owned/managed potentially impacted by forestry and wildlife workshops and programs and acres impacted by Master Naturalist programs	151,314	150,000	423,760	July 1- June 30	CUMIS and Master Naturalist Volunteers	# of acres reported by program attendees and volunteers	Highlights the importance of conservation by SC citizens through acres managed based on information gained through programs and workshops.
	S		2.4		<b>Provide training on the safe preparation, production and handling of food while educating citizens on wise nutritional choices that leads to improved health (Food Safety and Nutrition)</b>							
Maintaining Safety, Integrity and Security	M		2.4.1		Estimated savings from potentially preventing food-borne illnesses in restaurants.	New Metric	New Metric	\$344,760	July 1- June 30	CUMIS	# establishments represented in programs teaching safe food preparation and handlings programs (from CUMIS) * \$6,630	This shows the potential economic impact to restaurants. The current estimate of \$6,330 per restaurant is from Health Reports 2018 disseminated by John Hopkins University. This is the lowest estimated cost to a restaurant but ranges up to \$2.6million per establishment.

Strategic Planning and Performance Measurement Template

Statewide Enterprise Strategic Objective	Type	Item #			Description	2018-19			Time Applicable	Data Source and Availability	Calculation Method	Meaningful Use of Measure
		Goal	Strategy	Measure		Base	Target	Actual				
Healthy and Safe Families	M		2.4.2		Improve the quality of life for South Carolinians through increased physical and mental health in 5 rural counties.	New Metric	New Metric	4,398	July 1- June 30	CUMIS	# people improving life and improved lifestyles through attendance at health and nutrition programs throughout SC	Shows how Extension efforts are improving the quality of life for South Carolina residents through food nutrition and health programs.
	S		2.5		<b>Empower youth to grow into healthy and productive members of society through hands-on, inclusive and mentored learning opportunities (Youth Development and Families)</b>							
Education, Training, and Human Development	M		2.5.1		Potential future volunteer contributions (in dollars) by current 4-H members (projected 15 years into the future).	\$32.2 Million	\$29.0 Million	\$33.6 Million	Club Year September 1 - August 30	ES-237	(# 4-H members * Volunteer Hourly rate) * (Avg # Volunteer Hours for 4-H by adults) projected forward 15 years with an inflation rate of 2.5%	Provides a measure of the potential volunteer value 15 years into the future by current 4H members
Education, Training, and Human Development	M		2.5.2		Percentage of 4-H members engaged in citizenship and community service programs.	22%	25%	30%	Club Year September 1 - August 30	ES-237	Percentage of 4-H participants in citizenship programs divided by total 4-H participation	Percentage of 4-Hers participating in community, leadership and citizenship projects conveys the reach of the 4-H program in SC
	G		3		<b>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.</b>							
	S		3.1		<b>Enforce state and federal animal health laws and regulations by monitoring interstate movement of animals, performing inspections at livestock auction markets, and developing and expanding livestock traceability capability for livestock disease prevention, control, surveillance and eradication programs to protect animal and public health.</b>							
Maintaining Safety, Integrity and Security	M		3.1.1		Total number of new premises registered by Livestock Poultry Health	6,679	6,779	7,070	July 1 - June 30	LPH reports	Total premises registered	Indicator of continued activity is an essential element of animal disease traceability
Maintaining Safety, Integrity and Security	M		3.1.2		Meet disease testing and trace back requirements for continued "disease free" status as specified in the code of federal regulations	Met	Meet	Met	July 1 - June 30	LPH reports	Disease testing requirements met to maintain status	Affects access to interstate and international markets for SC livestock, poultry and products produced by them
Maintaining Safety, Integrity and Security	M		3.1.3		Number of inspections and investigations conducted at locations including livestock markets, exhibitions, sales, and on livestock farms throughout South Carolina	920	450	914	July 1 - June 30	LPH reports	Number of inspections, farm visits, and investigations	Indicator of the breadth and depth of surveillance activities important to LPH's ability to detect and respond to livestock and poultry diseases

Statewide Enterprise Strategic Objective	Type	Item #			Description	2018-19			Time Applicable	Data Source and Availability	Calculation Method	Meaningful Use of Measure
		Goal	Strategy	Measure		Base	Target	Actual				
	S	3.2			Protect the health of consumers by providing a comprehensive inspection service to ensure safe, properly labeled, wholesome meat and poultry products through inspections and regulation in state and federal cross-utilization meat and poultry plants.							
Maintaining Safety, Integrity and Security	M			3.2.1	Operate under "at least equal to" status from USDA Food Safety Inspection Service (FSIS)	Met	Meet	Met	July 1 - June 30	FSIS designation	On-site triennial review by FSIS and desk review each of the two years in between	Required under the Federal Meat and the Federal Poultry Inspection Act to operate state program and receive federal cost match
Maintaining Safety, Integrity and Security	M			3.2.2	Percent of permitted establishments with two in-depth reviews completed	100%	100%	100%	July 1 - June 30	SCMPID reports	% permitted establishments with two in-depth reviews completed	Measures critical to maintaining "at least equal to" status with the USDA Food Safety Inspection Service
Maintaining Safety, Integrity and Security	M			3.2.3	Percent of inspections of meat and poultry plants and HACCP and SSOP records by inspector in charge	100%	100%	100%	July 1 - June 30	LPH inspection reports	% daily inspection of all slaughter meat and poultry plants and records, when operating. In-depth reviews of meat and poultry plants and HACCP and SSOP records by inspectors.	Measures critical to maintaining "at least equal to" status with the USDA Food Safety Inspection Service
	S	3.3			Provide accurate and timely veterinary diagnostic and surveillance testing for early detection of disease, thus improving response and mitigating economic losses in livestock and poultry industry sectors.							
Maintaining Safety, Integrity and Security	M			3.3.1	Pass rate of National Veterinary Services Laboratories (NVSL) proficiency tests for procedures performed in Clemson Veterinary Diagnostic Center for which NVSL monitors test performance.	100%	100%	100%	July 1 - June 30	NVSL test results	Final pass rate of NVSL proficiency tests for procedures performed in Clemson Veterinary Diagnostic Center for which NVSL monitors test performance. Meet NVSL accreditation standards and criteria for technicians to be proficiency certified.	Indication of accuracy of veterinary diagnostic laboratory results
Maintaining Safety, Integrity and Security	M			3.3.2	Maintain ISO 17025 accreditation for Clemson Veterinary Diagnostic Center	Achieved	Achieve	Achieved	Status as of June 30	Accrediting bodies	ISO 17025:2005 Accredited	Measure of assurance of reliability and quality of the work done in veterinary diagnostic laboratory
Maintaining Safety, Integrity and Security	M			3.3.3	Number of diagnostic procedures; Percent of regulatory/production animal related	105,754; 99.26%	80,000; 90%	92,887; 98.74%	July 1 - June 30	LPH reports	Total number of diagnostic procedures and percent of regulatory/production animal related diagnostics to accomplish mission and serve SC veterinarians and livestock and poultry producers.	Indication of the demand for services from sectors served by veterinary diagnostic laboratory producers.

Statewide Enterprise Strategic Objective	Type	Item #			Description	2018-19			Time Applicable	Data Source and Availability	Calculation Method	Meaningful Use of Measure
		Goal	Strategy	Measure		Base	Target	Actual				
	G	4			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.							
Maintaining Safety, Integrity and Security	M			4.1.1	Pesticide Regulation: Structural and Ornamental. Compliance rate category 7 licensed pesticide applicator	91%	60%	94%	July 1 - June 30 July 1 - June 30	Office Records	The structural compliance rate benchmark of 60% was exceeded. For the reporting period, the structural compliance rate was 94%.	Ensures compliance to protect humans, plants, animals and the environment
Maintaining Safety, Integrity and Security	M			4.1.2	Pesticide Regulation: General. Total number of pesticide applicators licensed in category 3	3,690	2,800	3,661		Office Records	The total # of Category 3 (Ornamental and Turf Pest Control) applicators possessing a valid license during the reporting period.	Indicates the ability of applicators to meet requirements for safe application of pesticides to prevent harm to humans, plants, animals and the environment
Maintaining Safety, Integrity and Security	M			4.1.3	Pesticide Regulation: Percentage of district employees trained. General; Implement sustainable IPM programs in selected SC school districts	100%	100%	100%	July 1 - June 30	Office Records	Applicators contracted and trained to perform pest control activities at schools in 12 Districts inspected and in compliance with regulations in the following numbers: Commercial Lawn Care Operators,14, Non-Commercial Lawn Care Operators 5, Commercial Pest Control Operators 14	Provides a method to encourage schools to use Integrated Pest Management to control pests and improve indoor air quality; develops a compliance program that will be communicated to the school districts by Regulatory Investigators
	S	4.2			Protect South Carolina's structures from termites and other structural pests by ensuring high standards are met for the pest.							
Maintaining Safety, Integrity and Security	M			4.2.1	The number of compliance, complaints and other inspections conducted annually will be recorded and compared against an established benchmark of 2000 inspections. Regulate the structural and turf/ornamental pest control industries ensuring compliance with pesticide laws and regulations	2,362	2,000	2,552	July 1 - June 30	Office Records	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 is 2,552.	Ensures compliance to protect humans, plants, animals and the environment
Maintaining Safety, Integrity and Security	M			4.2.2	The percentage of repeat violators (structural compliance)	10%	≤20%	9%	July 1 - June 30	Office Records	% of repeat violators was below the benchmark of 20%. For the reporting period, the percentage of structural applicators who, after receiving one enforcement action for a violation, receive one or more additional enforcement actions within the next 12 months was 9.09%.	Provides a method for measuring compliance for protection of humans, plants, animals and the environment

Statewide Enterprise Strategic Objective	Type	Item #			Description	2018-19			Time Applicable	Data Source and Availability	Calculation Method	Meaningful Use of Measure
		Goal	Strategy	Measure		Base	Target	Actual				
	S	4.3			Ensure that the fertilizer, lime, landplaster and soil amendments sold in South Carolina will be of high quality and properly labeled.							
Maintaining Safety, Integrity and Security	M		4.3.1		The rate of fertilizer samples found deficient. Fertilizer, lime, and soil amendments distributed to end users in South Carolina must meet label guarantees and be free of contaminants	6%	≤20%	9.2% / 268 samples	July 1 - June 30	Annual Fertilizer Report	The Department of Plant Industry's Fertilizer Program collected 2,911 fertilizer samples with 268 samples being deficient. The calculated deficiency rate for the year was 9.2%. The target deficiency rate was 20%. Fertilizer tonnage was reported at 442,643 tons; a decrease of approximately 150,000 tons from the previous year.	Provides a direct measure of a company's ability to meet its legal obligation to provide consumers with the plant nutrients guaranteed on the label
	S	4.4			Protect South Carolina' agriculture and the environment from harmful or invasive plant disease, weed, and insect species.							
Maintaining Safety, Integrity and Security	M		4.4.1		Percentage of nursery growers and dealers inspected and in compliance. Protect South Carolina's ecosystem and all levels of agricultural production by	614	614	614	July 1 - June 30	Office Records	% of commercial nursery growers (not classified as hobbyist) that were inspected.	Ensures that established standards are being followed
Maintaining Safety, Integrity and Security	M		4.4.2		Acceptance rate of phytosanitary certificates issued	100%	100%	100%	July 1 - June 30	Office Records	DPI issued 1,136 federal phytosanitary certificates in a timely manner last year with no rejections from any country. 100% acceptance rate.	Indication that goods coming into the US are free of pests and pathogens, which protects US citizens
Maintaining Safety, Integrity and Security	M		4.4.3		Number of targeted surveys to detect potential invasive species introductions and regularly survey and treat currently infested sites with the goal of eradication	8	4	9	July 1 - June 30	Office Records	Wood Boring Bark Beetle(5 pests, none detected). Nursery (10 pests, none detected). Forest Pests (8 pests, none detected). Cyst Nematode Survey (7 pests - none detected). Mollusk survey (6 counties, none detected). Palm survey (5 pests, none detected). AgPathway Survey (5 pests, none detected). Phytophthora ramorum survey (16 sites surveyed, no detections). Emerald Ash Borer Survey (28 traps placed, 3 counties positive). Sweet Potato Weevil (18 counties trapped, 1 new positive county). Noxious weeds survey and eradication in 2018-19: Benghal Dayflower (5 counties monitored, all property owners are under compliance agreement). Itchgrass (2 sites monitoed, no detections). Cogongrass (13 sites treated and monitored, 2 new detections). Japanese dodder (1 site treated, no new detection). Fig Buttercup (survey in 8 counties – multiple positives in 6 counties). Crested Floating Heart (1 site monitored and eradicated).	Provides a means to mitigate disasters due to invasive species and to prevent harm to humans, plants, animals and the environment

Statewide Enterprise Strategic Objective	Type	Item #			Description	2018-19			Time Applicable	Data Source and Availability	Calculation Method	Meaningful Use of Measure
		Goal	Strategy	Measure		Base	Target	Actual				
	S	4.5			<b>Established standards will be met for the production of certified seed.</b>							
Maintaining Safety, Integrity and Security	M		4.5.1		Percentage of seed lots inspected in the field that meet purity standards in laboratory tests. Seed is certified as true to variety and meets all official certification standards for quality and purity	97.0%	99.3%	98.0%	July 1 - June 30	<a href="https://www.clemson.edu/public/regulatory/">https://www.clemson.edu/public/regulatory/</a>	The seed certification department aims to have high standards for certification in South Carolina. This voluntary program holds growers to a set of standards imposed on the production of seed which ensures its purity and germination. During the 2018-2019 growing season, the department certified 13,166 acres of peanuts, soybeans, small grains and turf grass.	Ensures compliance with the SC Seed Certification Standards.
	S	4.6			<b>Correctly identify or diagnose plant pests and diseases and provide effective control recommendations in a timely manner.</b>							
Maintaining Safety, Integrity and Security	M		4.6.1		Percentage of plant samples analyzed to identify or diagnose weed, disease, and insect problems, providing results and control recommendations to clients	100%	100%	100%	July 1 - June 30	Plant Problem Clinic Annual Report	The Plant Problem Clinic processed 4,253 samples. This was broken down as follows: 865 disease or abiotic problems, 125 insects or mites, 89 weeds. The Molecular Plant Pathogen Detection Laboratory processed 129 samples. The Commercial Turf Clinic processed 86 samples. 2,939 nematode samples. The water lab 20.	Ensures compliance to protect humans, plants, animals and the environment
	S	4.7			<b>Help prepare South Carolina to better recover from disasters and other emergencies impacting agriculture in the state.</b>							
Maintaining Safety, Integrity and Security	M		4.7.1		Percentage of employees trained on the ICS (Incident Command System) in the event of an emergency. Have trainings to make sure that everybody understands their roles	100%	100%	100%	July 1 - June 30	Office Records	Regulatory and Public Service Programs played an integral role in manning the SEOC during the active 2018 hurricane season. Regulatory personnel manned the EF-17 SEOC desk and did an extraordinary job at fielding calls, coordinating and serving as a liaison between the citizens of South Carolina, SC agriculture and other state agencies substantially lessening the blow from both hurricane's Florence and Michael which hit SC literally weeks apart. Regulatory agents were deeply involved in recognizing needs and supported delivering assets where needed. Regulatory stands at the ready; always to assist the State's Emergency Management Operations Center when called upon.	Provides a means to mitigate disasters due to invasive species and to prevent harm to humans, plants, animals and the environment
	S	4.8			<b>Enforce that established standards will be met for the production of certified organic products.</b>							
Maintaining Safety, Integrity and Security	M		4.8.1		Percent of NOP accredited certification services to organic producers, processors, and handlers who seek certification through our agency provided to USDA.	99.5%	100.0%	99.4%	July 1 - June 30	Office Records	There are 59 certified operations.	Provides method to ensure that established standards will be met for the production of certified organic products



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		Goal	Strategy	Measure		Base	Target	Actual				
	S	4.9			Provide for effective leadership, management and administration of Division programs, personnel and facilities.							
Maintaining Safety, Integrity and Security	M			4.9.1	Percent of analytical testing for soil, plant tissue, feed and forage, animal waste, irrigation water, and compost samples provided for individual clients, commercial dealers, Extension Agents, Extension Specialists, and researchers in South Carolina	100%	100%	100%	July 1 - June 30	Agriculture Service Lab Annual Report	Soil: 45,812; Compost: 35; Animal Waste: 650; Irrigation Water: 575; Plant Tissue: 468; Feed and Forage: 650; other samples (research and commercial customers): 17,237 Total samples - 59,171	Ensures compliance to protect humans, plants, animals and the environment
Maintaining Safety, Integrity and Security	M			4.9.2	Percentage of Apiary Inspections conducted	100%	88%	100%	July 1 - June 30	Office Records	DPI conducted 88 apiary inspections for disease, pest and export certification throughout SC.	Ensures compliance to protect humans, plants, animals and the environment

Agency Name:	CLEMSON UNIVERSITY - PSA		
Agency Code:	P200	Section:	45

Fiscal Year 2018-2019

Strategic Planning and Performance Measurement Template

Statewide Enterprise Strategic Objective	Type	Item #			Description	2019-20			Time Applicable	Data Source and Availability	Calculation Method	Meaningful Use of Measure
		Goal	Strategy	Measure		Base	Target	Actual				
	G	1			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			Enhance research prominence in focus areas that maintain and support the growth of South Carolina's agriculture and forest industries.							
Education, Training, and Human Development	M		1.1.1		The number of research proposals and funding requests submitted to granting agencies	377	250		July 1 - June 30	INFO-ED	Total number count	A tangible measurement of the value of research and technology to the scientific community and the public.
Education, Training, and Human Development	M		1.1.2		The number of research proposal funded extramurally	153	150		July 1 - June 30	INFO-ED	Total number count	A tangible measurement of the value of research and technology to the scientific community and the public.
Education, Training, and Human Development	M		1.1.3		The number of technical contributions related to research	95	90		July 1 - June 30	Experiment Station Data	Total number count	A tangible measurement of the value of research and technology to the scientific community and the public.
	S	1.2			Strengthen applied research through connections between Clemson University scientists and growers.							
Education, Training, and Human Development	M		1.2.1		Research proposals that respond to the needs of commodity boards	58	60		July 1 - June 30	INFO-ED	Total number count	A tangible measurement of the value of research and technology to the scientific community and the public.
	S	1.3			Improve undergraduate and graduate education experiences offered at RECs.							
Education, Training, and Human Development	M		1.3.1		Number of graduate students recruited and retained	154	150		July 1 - June 30	Office of Institutional Research	Total number count	A tangible measurement of the value of research and technology to the scientific community and the public.
	G	2			The Clemson Cooperative Extension Service will improve the economy, environment, and well-being of South Carolinians through the delivery of unbiased research-based information and education.							
	S	2.1			Develop and implement agricultural production systems that are economically sustainable and environmentally sound (Agrisystems Productivity and Profitability)							
Education, Training, and Human Development	M		2.1.1		Number of acres in South Carolina impacted as a result of Extension programs	455,157	300,000		July 1- June 30	Clemson University Management Information System (CUMIS)	# of acres impacted by Extension programs. The acreage may be impacted from improved practices, alternative crops planted, application of integrated crop management strategies and other land management strategies.	Demonstrates the statewide impact of Extension programs across the State.

Strategic Planning and Performance Measurement Template

Statewide Enterprise Strategic Objective	Type	Item #			Description	2019-20			Time Applicable	Data Source and Availability	Calculation Method	Meaningful Use of Measure
		Goal	Strategy	Measure		Base	Target	Actual				
Education, Training, and Human Development	M		2.1.2		Number of producers implementing Best Management Practices for livestock and forage production	454	400		July 1- June 30	CUMIS	# of producers that self-reported implementation of a BMP. This may include implementation of EPD, following recommended grazing management systems, or establishment of improved forage cultivars.	A measure of producers that implemented practices as a result of Extension programs.
	S	2.2			<b>Agribusiness and Agricultural Workforce Development (Agribusiness)</b>							
Education, Training, and Human Development	M		2.2.1		Number of people served through workshops, one-on-one meetings, online resources and other media outlets	242,549	200,000		July 1- June 30	CUMIS	# people served through direct and indirect methods.	Demonstrates the reach of the agribusiness and ag workforce development efforts across the state.
Education, Training, and Human Development	M		2.2.2		Percentage of people reporting a gain in knowledge from workshops	82%	75%		July 1- June 30	CUMIS	# of people that reported a gain in knowledge as a result of the workshops.	Demonstrates a change in knowledge.
	S	2.3			<b>Conserve and protect all natural resources throughout South Carolina through education and implementation of best management practices (Environmental and Natural Resources Conservation)</b>							
Education, Training, and Human Development	M		2.3.1		Percent of landowners, homeowners, land managers, biologists, engineers, water resources managers and private citizens utilizing practices taught during programs and workshops.	93%	50%		July 1- June 30	CUMIS	# of participants reporting that they implement knowledge divided by number of participants	Impact on change in behavior and actions as a result of workshops and information presented.
Education, Training, and Human Development	M		2.3.2		Number of acres owned/managed potentially impacted by forestry and wildlife workshops and programs and acres impacted by Master Naturalist programs	423,760	150,000		July 1- June 30	CUMIS and Master Naturalist Volunteers	# of acres reported by program attendees and volunteers	Highlights the importance of conservation by SC citizens through acres managed based on information gained through programs and workshops.
	S	2.4			<b>Provide training on the safe preparation, production and handling of food while educating citizens on wise nutritional choices that leads to improved health (Food Safety and Nutrition)</b>							
Maintaining Safety, Integrity and Security	M		2.4.1		Estimated savings from potentially preventing food-borne illnesses in restaurants.	\$344,760	\$250,000		July 1- June 30	CUMIS	# establishments represented in programs teaching safe food preparation and handlings programs (from CUMIS) * \$6,630	This shows the potential economic impact to restaurants. The current estimate of \$6,330 per restaurant is from Health Reports 2018 disseminated by John Hopkins University. This is the lowest estimated cost to a restaurant but ranges up to \$2.6million per establishment.

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Statewide Enterprise Strategic Objective	Type	Item #			Description	2019-20			Time Applicable	Data Source and Availability	Calculation Method	Meaningful Use of Measure
		Goal	Strategy	Measure		Base	Target	Actual				
Healthy and Safe Families	M			2.4.2	Improve the quality of life for South Carolinians through increased physical and mental health in 5 rural counties.	4,398	4,000		July 1- June 30	CUMIS	# people improving life and improved lifestyles through attendance at health and nutrition programs throughout SC	Shows how Extension efforts are improving the quality of life for South Carolina residents through food nutrition and health programs.
	S			2.5	<b>Empower youth to grow into healthy and productive members of society through hands-on, inclusive and mentored learning opportunities (Youth Development and Families)</b>							
Education, Training, and Human Development	M			2.5.1	Potential future volunteer contributions (in dollars) by current 4-H members (projected 15 years into the future).	\$33.6 Million	\$29.0 Million		Club Year September 1 - August 30	ES-237	(# 4-H members * Volunteer Hourly rate) * (Avg # Volunteer Hours for 4-H by adults) projected forward 15 years with an inflation rate of 2.5%	Provides a measure of the potential volunteer value 15 years into the future by current 4H members
Education, Training, and Human Development	M			2.5.2	Percentage of 4-H members engaged in citizenship and community service programs.	30%	25%		Club Year September 1 - August 30	ES-237	Percentage of 4-H participants in citizenship programs divided by total 4-H participation	Percentage of 4-Hers participating in community, leadership and citizenship projects conveys the reach of the 4-H program in SC
	G			3	<b>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.</b>							
	S			3.1	<b>Enforce state and federal animal health laws and regulations by monitoring interstate movement of animals, performing inspections at livestock auction markets, and developing and expanding livestock traceability capability for livestock disease prevention, control, surveillance and eradication programs to protect animal and public health.</b>							
Maintaining Safety, Integrity and Security	M			3.1.1	Total number of new premises registered by Livestock Poultry Health	7,070	6,779		July 1 - June 30	LPH reports	Total premises registered	Indicator of continued activity is an essential element of animal disease traceability
Maintaining Safety, Integrity and Security	M			3.1.2	Meet disease testing and trace back requirements for continued "disease free" status as specified in the code of federal regulations	Met	Meet		July 1 - June 30	LPH reports	Disease testing requirements met to maintain status	Affects access to interstate and international markets for SC livestock, poultry and products produced by them
Maintaining Safety, Integrity and Security	M			3.1.3	Number of inspections and investigations conducted at locations including livestock markets, exhibitions, sales, and on livestock farms throughout South Carolina	914	450		July 1 - June 30	LPH reports	Number of inspections, farm visits, and investigations	Indicator of the breadth and depth of surveillance activities important to LPH's ability to detect and respond to livestock and poultry diseases

Statewide Enterprise Strategic Objective	Type	Item #			Description	2019-20			Time Applicable	Data Source and Availability	Calculation Method	Meaningful Use of Measure
		Goal	Strategy	Measure		Base	Target	Actual				
	S	3.2			<b>Protect the health of consumers by providing a comprehensive inspection service to ensure safe, properly labeled, wholesome meat and poultry products through inspections and regulation in state and federal cross-utilization meat and poultry plants.</b>							
Maintaining Safety, Integrity and Security	M		3.2.1		Operate under "at least equal to" status from USDA Food Safety Inspection Service (FSIS)	Met	Met		July 1 - June 30	FSIS designation	On-site triennial review by FSIS and desk review each of the two years in between	Required under the Federal Meat and the Federal Poultry Inspection Act to operate state program and receive federal cost match
Maintaining Safety, Integrity and Security	M		3.2.2		Percent of permitted establishments with two in-depth reviews completed	100%	100%		July 1 - June 30	SCMPID reports	% permitted establishments with two in-depth reviews completed	Measures critical to maintaining "at least equal to" status with the USDA Food Safety Inspection Service
Maintaining Safety, Integrity and Security	M		3.2.3		Percent of inspections of meat and poultry plants and HACCP and SSOP records by inspector in charge	100%	100%		July 1 - June 30	LPH inspection reports	% daily inspection of all slaughter meat and poultry plants and records, when operating. In-depth reviews of meat and poultry plants and HACCP and SSOP records by inspectors.	Measures critical to maintaining "at least equal to" status with the USDA Food Safety Inspection Service
	S	3.3			<b>Provide accurate and timely veterinary diagnostic and surveillance testing for early detection of disease, thus improving response and mitigating economic losses in livestock and poultry industry sectors.</b>							
Maintaining Safety, Integrity and Security	M		3.3.1		Pass rate of National Veterinary Services Laboratories (NVSL) proficiency tests for procedures performed in Clemson Veterinary Diagnostic Center for which NVSL monitors test performance.	100%	100%		July 1 - June 30	NVSL test results	Final pass rate of NVSL proficiency tests for procedures performed in Clemson Veterinary Diagnostic Center for which NVSL monitors test performance. Meet NVSL accreditation standards and criteria for technicians to be proficiency certified.	Indication of accuracy of veterinary diagnostic laboratory results
Maintaining Safety, Integrity and Security	M		3.3.2		Maintain ISO 17025 accreditation for Clemson Veterinary Diagnostic Center	Achieved	Achieve		Status as of June 30	Accrediting bodies	ISO 17025:2005 Accredited	Measure of assurance of reliability and quality of the work done in veterinary diagnostic laboratory
Maintaining Safety, Integrity and Security	M		3.3.3		Number of diagnostic procedures; Percent of regulatory/production animal related	92,887; 98.74%	80,000; 90%		July 1 - June 30	LPH reports	Total number of diagnostic procedures and percent of regulatory/production animal related diagnostics to accomplish mission and serve SC veterinarians and livestock and poultry producers.	Indication of the demand for services from sectors served by veterinary diagnostic laboratory

Statewide Enterprise Strategic Objective	Type	Item #			Description	2019-20			Time Applicable	Data Source and Availability	Calculation Method	Meaningful Use of Measure
		Goal	Strategy	Measure		Base	Target	Actual				
	G	4			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.							
Maintaining Safety, Integrity and Security	M		4.1.1		Pesticide Regulation: Structural and Ornamental. Compliance rate category 7 licensed pesticide applicator	94%	60%		July 1 - June 30	Office Records	The structural compliance rate benchmark of 60% was exceeded. For the reporting period, the structural compliance rate was 94%.	Ensures compliance to protect humans, plants, animals and the environment
Maintaining Safety, Integrity and Security	M		4.1.2		Pesticide Regulation: General. Total number of pesticide applicators licensed in category 3	3,661	2,800		July 1 - June 30	Office Records	The total # of Category 3 (Ornamental and Turf Pest Control) applicators possessing a valid license during the reporting period.	Indicates the ability of applicators to meet requirements for safe application of pesticides to prevent harm to humans, plants, animals and the environment
Maintaining Safety, Integrity and Security	M		4.1.3		Pesticide Regulation: Percentage of district employees trained. General; Implement sustainable IPM programs in selected SC school districts	100%	100%		July 1 - June 30	Office Records	Applicators contracted and trained to perform pest control activities at schools in 12 Districts inspected and in compliance with regulations in the following numbers: Commercial Lawn Care Operators 14, Non-Commercial Lawn Care Operators 5, Commercial Pest Control Operators 14	Provides a method to encourage schools to use Integrated Pest Management to control pests and improve indoor air quality; develops a compliance program that will be communicated to the school districts by Regulatory Investigators
	S	4.2			Protect South Carolina's structures from termites and other structural pests by ensuring high standards are met for the pest.							
Maintaining Safety, Integrity and Security	M		4.2.1		The number of compliance, complaints and other inspections conducted annually will be recorded and compared against an established benchmark of 2000 inspections. Regulate the structural and turf/ornamental pest control industries ensuring compliance with pesticide laws and regulations	2,552	2,000		July 1 - June 30	Office Records	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 is 2,552.	Ensures compliance to protect humans, plants, animals and the environment
Maintaining Safety, Integrity and Security	M		4.2.2		The percentage of repeat violators (structural compliance)	9%	≤20%		July 1 - June 30	Office Records	% of repeat violators was below the benchmark of 20%. For the reporting period, the percentage of structural applicators who, after receiving one enforcement action for a violation, receive one or more additional enforcement actions within the next 12 months was 9.09%.	Provides a method for measuring compliance for protection of humans, plants, animals and the environment
	S	4.3			Ensure that the fertilizer, lime, landplaster and soil amendments sold in South Carolina will be of high quality and properly labeled.							

Statewide Enterprise Strategic Objective	Type	Item #			Description	2019-20			Time Applicable	Data Source and Availability	Calculation Method	Meaningful Use of Measure
		Goal	Strategy	Measure		Base	Target	Actual				
Maintaining Safety, Integrity and Security	M			4.3.1	The rate of fertilizer samples found deficient. Fertilizer, lime, and soil amendments distributed to end users in South Carolina must meet label guarantees and be free of contaminants	9.2% / 268 samples	≤20%		July 1 - June 30	Annual Fertilizer Report	The Department of Plant Industry's Fertilizer Program collected 2,911 fertilizer samples with 268 samples being deficient. The calculated deficiency rate for the year was 10.86 %. The target deficiency rate was 20%. Fertilizer tonnage was reported at 442,643 tons; a decrease of approximately 150,000 tons from the previous year.	Provides a direct measure of a company's ability to meet its legal obligation to provide consumers with the plant nutrients guaranteed on the label
	S			4.4	<b>Protect South Carolina' agriculture and the environment from harmful or invasive plant disease, weed, and insect species.</b>							
Maintaining Safety, Integrity and Security	M			4.4.1	Percentage of nursery growers and dealers inspected and in compliance. Protect South Carolina's ecosystem and all levels of agricultural production by	614	614		July 1 - June 30	Office Records	% of commercial nursery growers (not classified as hobbyist) that were inspected.	Ensures that established standards are being followed
Maintaining Safety, Integrity and Security	M			4.4.2	Acceptance rate of phytosanitary certificates issued	100%	100%		July 1 - June 30	Office Records	DPI issued 1,136 federal phytosanitary certificates in a timely manner last year with no rejections from any country. 100% acceptance rate.	Indication that goods coming into the US are free of pests and pathogens, which protects US citizens
Maintaining Safety, Integrity and Security	M			4.4.3	Number of targeted surveys to detect potential invasive species introductions and regularly survey and treat currently infested sites with the goal of eradication	9	4		July 1 - June 30	Office Records	Wood Boring Bark Beetle(5 pests, none detected). Nursery (10 pests, none detected). Forest Pests (8 pests, none detected). Cyst Nematode Survey (7 pests - none detected). Mollusk survey (6 counties, none detected). Palm survey (5 pests, none detected). AgPathway Survey (5 pests, none detected). Phytophthora ramorum survey (16 sites surveyed, no detections). Emerald Ash Borer Survey (28 traps placed, 3 counties positive). Sweet Potato Weevil (18 counties trapped, 1 new positive county). Noxious weeds survey and eradication in 2018-19: Benghal Dayflower (5 counties monitored, all property owners are under compliance agreement). Itchgrass (2 sites monitoed, no detections). Cogongrass (13 sites treated and monitored, 2 new detections). Japanese dodder (1 site treated, no new detection). Fig Buttercup (survey in 8 counties – multiple positives in 6 counties). Crested Floating Heart (1 site monitored and eradicated).	Provides a means to mitigate disasters due to invasive species and to prevent harm to humans, plants, animals and the environment

Statewide Enterprise Strategic Objective	Type	Item #			Description	2019-20			Time Applicable	Data Source and Availability	Calculation Method	Meaningful Use of Measure
		Goal	Strategy	Measure		Base	Target	Actual				
	S	4.5			<b>Established standards will be met for the production of certified seed.</b>							
Maintaining Safety, Integrity and Security	M		4.5.1		Percentage of seed lots inspected in the field that meet purity standards in laboratory tests. Seed is certified as true to variety and meets all official certification standards for quality and purity	98.0%	99.3%		July 1 - June 30	Office Records	The seed certification department aims to have high standards for certification in South Carolina. This voluntary program holds growers to a set of standards imposed on the production of seed which ensures its purity and germination. During the 2018-2019 growing season, the department certified 13,166 acres of peanuts, soybeans, small grains and turf grass.	Ensures compliance with the SC Seed Certification Standards.
	S	4.6			<b>Correctly identify or diagnose plant pests and diseases and provide effective control recommendations in a timely manner.</b>							
Maintaining Safety, Integrity and Security	M		4.6.1		Percentage of plant samples analyzed to identify or diagnose weed, disease, and insect problems, providing results and control recommendations to clients	100%	100%		July 1 - June 30	Plant Problem Clinic Annual Report	The Plant Problem Clinic processed 4,253 samples. This was broken down as follows: 865 disease or abiotic problems, 125 insects or mites, 89 weeds. The Molecular Plant Pathogen Detection Laboratory processed 129 samples. The Commercial Turf Clinic processed 86 samples. 2,939 nematode samples. The water lab 20.	Ensures compliance to protect humans, plants, animals and the environment
	S	4.7			<b>Help prepare South Carolina to better recover from disasters and other emergencies impacting agriculture in the state.</b>							
Maintaining Safety, Integrity and Security	M		4.7.1		Percentage of employees trained on the ICS (Incident Command System) in the event of an emergency. Have trainings to make sure that everybody understands their roles	100%	100%		July 1 - June 30	Office Records	Regulatory and Public Service Programs played an integral role in manning the SEOC during the active 2018 hurricane season. Regulatory personnel manned the EF-17 SEOC desk and did an extraordinary job at fielding calls, coordinating and serving as a liaison between the citizens of South Carolina, SC agriculture and other state agencies substantially lessening the blow from both hurricane's Florence and Michael which hit SC literally weeks apart. Regulatory agents were deeply involved in recognizing needs and supported delivering assets where needed. Regulatory stands at the ready; always to assist the State's Emergency Management Operations Center when called upon.	Provides a means to mitigate disasters due to invasive species and to prevent harm to humans, plants, animals and the environment
	S	4.8			<b>Enforce that established standards will be met for the production of certified organic products.</b>							
Maintaining Safety, Integrity and Security	M		4.8.1		Percent of NOP accredited certification services to organic producers, processors, and handlers who seek certification through our agency provided to USDA.	99.4%	100.0%		July 1 - June 30	Office Reports	There are 59 certified operations.	Provides method to ensure that established standards will be met for the production of certified organic products



Statewide Enterprise Strategic Objective	Type	Item #			Description	Base	2019-20		Time Applicable	Data Source and Availability	Calculation Method	Meaningful Use of Measure
		Goal	Strategy	Measure			Target	Actual				
	S	4.9			<b>Provide for effective leadership, management and administration of Division programs, personnel and facilities.</b>							
Maintaining Safety, Integrity and Security	M			4.9.1	Percent of analytical testing for soil, plant tissue, feed and forage, animal waste, irrigation water, and compost samples provided for individual clients, commercial dealers, Extension Agents, Extension Specialists, and researchers in South Carolina	100%	100%		July 1 - June 30	Agriculture Service Lab Annual Report	Soil: 45,812; Compost: 35; Animal Waste: 650; Irrigation Water: 575; Plant Tissue: 468; Feed and Forage: 650; other samples (research and commercial customers): 17,237 Total samples - 59,171	Ensures compliance to protect humans, plants, animals and the environment
Maintaining Safety, Integrity and Security	M			4.9.2	Percentage of Apiary Inspections conducted	100%	88%		July 1 - June 30	Office Reports	DPI conducted 88 apiary inspections for disease, pest and export certification throughout SC.	Ensures compliance to protect humans, plants, animals and the environment

**Agency Name:** CLEMSON UNIVERSITY - PSA

Fiscal Year 2018-2019  
Accountability Report

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

Program Template

Program/Title	Purpose	FY 2018-19 Expenditures (Actual)				FY 2019-20 Expenditures (Projected)				Associated Measure(s)
		General	Other	Federal	TOTAL	General	Other	Federal	TOTAL	
I.A. Regulatory Services - General	Regulatory Services protect 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 guarantees, 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.	\$ 773,380	\$ 4,929,647		\$ 5,703,027	\$ 1,273,380	\$ 4,957,008		\$ 6,230,388	All Goal 4 Objectives
I.B. Regulatory Services - Restricted	Regulatory Services protect 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 guarantees, 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.			\$ 901,619	\$ 901,619			\$ 1,275,000	\$ 1,275,000	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.	\$ 4,042,980	\$ 103,499		\$ 4,146,479	\$ 4,292,980	\$ 1,160,852		\$ 5,453,832	All Goal 3 Objectives

Program/Title	Purpose	<u>FY 2018-19 Expenditures (Actual)</u>				<u>FY 2019-20 Expenditures (Projected)</u>				Program Template
		General	Other	Federal	TOTAL	General	Other	Federal	TOTAL	Associated Measure(s)
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.			\$ 2,584,624	\$ 2,584,624			\$ 2,500,000	\$ 2,500,000	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.	\$ 18,395,270	\$ 4,931,249	\$ 3,291,480	\$ 26,617,999	\$ 18,645,270	\$ 5,628,139	\$ 5,750,000	\$ 30,023,409	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.	\$ 20,310,119	\$ 6,836,542	\$ 6,188,201	\$ 33,334,862	\$ 21,310,119	\$ 11,649,569	\$ 7,750,000	\$ 40,709,688	All Goal 2 Objectives

Agency Name: CLEMSON UNIVERSITY - PSA

Fiscal Year 2018-2019

Accountability Report

Agency Code: P200 Section: 045

Legal Standards Template

Item #	Law Number	Jurisdiction	Type of Law	Statutory Requirement and/or Authority Granted	Does this law specify who your agency must or may serve? (Y/N)	Does the law specify a product or service your agency must or may provide?	If yes, what type of service or product?	If other service or product, please specify what service or product.
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.	Yes	Yes	Other service or product our agency must/may provide	Enforcement of State Regulations
2	§ 46-9-15	State	Statute	Definitions	Yes	Yes	Other service or product our agency must/may provide	Enforcement of State Regulations
3	§ 46-9-20	State	Statute	Appointment of State Entomologist and State Plant Pathologist.				
4	§ 46-9-30	State	Statute	Confidentiality of business information; penalties for unlawful disclosure or use of information.				
5	§ 46-9-35	State	Statute	Confidentiality of business information; penalties for unlawful disclosure or use of information.				
6	§ 46-9-40	State	Statute	Authority to promulgate and enforce regulations; other powers of commission.				
7	§ 46-9-50	State	Statute	Delegation of duties of commission to director; powers and duties of director.				
8	§ 46-9-60	State	Statute	Powers and duties of commission upon finding or suspecting infestation; quarantines; effect of quarantines.				
9	§ 46-9-70	State	Statute	Police powers of commission, assistants, deputies, and agents; violations reported to commission.				
10	§ 46-9-80	State	Statute	Penalties for interfering with commission, director, deputies, assistants, or agents.				
11	§ 46-9-90	State	Statute	Penalties for violating chapter; denial, suspension, revocation, or modification of license or certificate; civil penalties; hearing on suspension; judicial appeal not to act as stay of penalty; authority of commission to enforce its ordinances and regulations in court.				
12	§ 46-9-100	State	Statute	Fines deposited to credit of State Treasury.				
13	§ 46-9-110	State	Statute	Local ordinances void.				
14	§ 46-9-120	State	Statute	Reporting of agricultural product diseases caused by chemical or other terrorism.				
15	46-13-10 et seq	State	Statute	Provides for Clemson to operate a pesticide program in South Carolina.				
16	§ 46-13-20	State	Statute	Definitions.	Yes	Yes	Other service or product our agency must/may provide	Enforcement of State Regulations
17	§ 46-13-30	State	Statute	Duties delegated to Director.				
18	§ 46-13-40	State	Statute	Registration of pesticides and devices.				
19	§ 46-13-45	State	Statute	Pesticide registration fees; classes of fees.				
20	§ 46-13-50	State	Statute	Licensing of pesticide dealers.				
21	§ 46-13-55	State	Statute	Regulation of structural pest control activity.				
22	§ 46-13-60	State	Statute	Standards for certification of pesticide applicators; applicators' licenses.				
23	§ 46-13-70	State	Statute	Classification of certified applicators' licenses.				
24	§ 46-13-80	State	Statute	Expiration and renewal of licenses.				
25	§ 46-13-90	State	Statute	Denial, suspension, revocation, or modification of licenses and certificates.				
26	§ 46-13-100	State	Statute	Financial responsibility required for commercial applicator's license.				
27	§ 46-13-110	State	Statute	Reporting of accidents and incidents.				
28	§ 46-13-120	State	Statute	Records as to use of restricted use pesticides.				
29	§ 46-13-130	State	Statute	Reciprocity.				
30	§ 46-13-140	State	Statute	Exemptions from licensing requirements.				
31	§ 46-13-150	State	Statute	Pesticide advisory committee.				
32	§ 46-13-160	State	Statute	Information and courses of instruction.				
33	§ 46-13-170	State	Statute	Inspection of premises; legal actions; "stop sale, use, or removal" orders.				
34	§ 46-13-175	State	Statute	Discretion to make pesticides available for minor uses.				
35	§ 46-13-180	State	Statute	Penalties.				
36	§ 46-13-185	State	Statute	Prosecution of criminal violators; use of counsel.				
37	§ 46-13-190	State	Statute	Subpoenas.				
38	§ 46-13-200	State	Statute	Adjudication of alleged violations; disposal of condemned pesticides or devices.				
39	§ 46-13-210	State	Statute	Judicial review.				
40	§ 46-13-220	State	Statute	Delegation of authority to employees of Clemson University.				

Legal Standards Template

Item #	Law Number	Jurisdiction	Type of Law	Statutory Requirement and/or Authority Granted	Does this law specify who your agency must or may serve? (Y/N)	Does the law specify a product or service your agency must or may provide?	If yes, what type of service or product?	If other service or product, please specify what service or product.
41	§ 46-13-230	State	Statute	Disposition of fees.				
42	§ 46-13-240	State	Statute	Federal, interstate, and intrastate cooperation.				
43	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.	Yes	Yes	Other service or product our agency must/may provide	Enforcement of State Regulations
44	§ 46-21-615	State	Statute	Definitions.				
45	§ 46-21-625	State	Statute	Enforcement; authority of state seed law enforcement officers; authority of Department of Agriculture employees; local regulation preempted.				
46	§ 46-21-635	State	Statute	Seed laboratory.				
47	§ 46-21-645	State	Statute	License to handle seeds; fee; persons subject to requirements of section; exception.				
48	§ 46-21-655	State	Statute	Exemptions.				
49	§ 46-21-665	State	Statute	Foundation seed program.				
50	§ 46-21-1010	State	Statute	Claims required to be submitted to arbitration; notice; effect of arbitration.				
51	§ 46-21-1020	State	Statute	Appointment of arbitration committee; procedures.				
52	46-35-10 et seq	State	Statute	Provides the Director of Regulatory and Public Service Programs shall regulate neglected or abandoned fruit orchards in the State.	Yes	Yes	Other service or product our agency must/may provide	Enforcement of State Regulations
53	§ 46-35-15	State	Statute	Definitions.				
54	§ 46-35-20	State	Statute	Petition for removal or destruction of trees.				
55	§ 46-35-30	State	Statute	Citation to show cause against removal or destruction.				
56	§ 46-35-40	State	Statute	Service of citation.				
57	§ 46-35-50	State	Statute	Order for removal or destruction of trees; service.				
58	§ 46-35-60	State	Statute	Destruction or removal of trees when owner fails to do so.				
59	§ 46-35-70	State	Statute	Enforcement.				
60	§ 46-35-80	State	Statute	Disclosure requirements relative to sale of orchards.				
61	46-7-10 et seq	State	Statute	<del>Provides for the Director of Plant Industries to oversee the regulation of plant pests and pesticides throughout the State.</del>	Yes	Yes	Other service or product our agency must/may provide	Enforcement of State Regulations
62	§ 46-9-15	State	Statute	<del>Definitions.</del>				
63	§ 46-9-20	State	Statute	<del>Appointment of State Entomologist and State Plant Pathologist.</del>				
64	§ 46-9-30	State	Statute	<del>Confidentiality of business information; penalties for unlawful disclosure or use of information.</del>				
65	§ 46-9-35	State	Statute	<del>Licensing exams and questions confidential; applicant review of failed exam.</del>				
66	§ 46-9-40	State	Statute	<del>Authority to promulgate and enforce regulations; other powers of commission.</del>				
67	§ 46-9-50	State	Statute	<del>Delegation of duties of commission to director; powers and duties of director.</del>				
68	§ 46-9-60	State	Statute	<del>Powers and duties of commission upon finding or suspecting infestation; quarantines; effect of quarantines.</del>				
69	§ 46-9-70	State	Statute	<del>Police powers of commission, assistants, deputies, and agents; violations reported to commission.</del>				
70	§ 46-9-80	State	Statute	<del>Penalties for interfering with commission, director, deputies, assistants, or agents.</del>				
71	§ 46-9-90	State	Statute	<del>Penalties for violating chapter; denial, suspension, revocation, or modification of license or certificate; civil penalties; hearing on suspension; judicial appeal not to act as stay of penalty; authority of commission to enforce its ordinances and regulations in court.</del>				
72	§ 46-9-100	State	Statute	<del>Fines deposited to credit of State Treasury.</del>				
73	§ 46-9-110	State	Statute	<del>Local ordinances void.</del>				
74	§ 46-9-120	State	Statute	<del>Reporting of agricultural product diseases caused by chemical or other terrorism.</del>				
75	46-10-10 et seq	State	Statute	Provides for Clemson to operate and administer a Boll Weevil Eradication Program.	Yes	Yes	Other service or product our agency must/may provide	Enforcement of State Regulations
76	§ 46-10-20	State	Statute	Definitions.				
77	§ 46-10-30	State	Statute	Administration of chapter; rules and regulations.				
78	§ 46-10-40	State	Statute	Powers of commission.				

Item #	Law Number	Jurisdiction	Type of Law	Statutory Requirement and/or Authority Granted	Does this law specify who your agency must or may serve? (Y/N)	Does the law specify a product or service your agency must or may provide?	If yes, what type of service or product?	If other service or product, please specify what service or product.
79	§ 46-10-50	State	Statute	Quarantines; hearings and notice.	Yes	Yes	Other service or product our agency must/may provide	Enforcement of State Regulations
80	§ 46-10-60	State	Statute	Additional powers of commission.				
81	§ 46-10-70	State	Statute	Inspections.				
82	§ 46-10-80	State	Statute	Cooperation with federal and adjacent state agencies.				
83	§ 46-10-85	State	Statute	Certification of cotton growers' organization; eligibility requirements; certifying resolution; revocation.				
84	§ 46-10-90	State	Statute	Treatment or destruction of cotton.				
85	§ 46-10-100	State	Statute	Penalties.				
86	§ 46-10-110	State	Statute	Caution in use of pesticides or in eradication methods.				
87	§ 46-10-120	State	Statute	Cotton producer referendum.				
88	§ 46-10-130	State	Statute	Assessments and penalties against cotton growers.				
89	46-25-10 et seq	State	Statute	Provides for Clemson to regulate the inspection, analysis, distribution and sale of commercial fertilizers.	Yes	Yes	Other service or product our agency must/may provide	Enforcement of State Regulations
90	§ 46-25-20	State	Statute	Definitions.				
91	§ 46-25-30	State	Statute	Guaranteed analysis of certain plant nutrients.				
92	§ 46-25-40	State	Statute	Rules and regulations.				
93	§ 46-25-45	State	Statute	Commission to delegate duties to director; director to administer and enforce chapter and promulgate regulations.				
94	§ 46-25-50	State	Statute	Sales between and to importers, registrants, and manipulators.				
95	§ 46-25-60	State	Statute	Relief from liability of registrant for distributor's alteration of content or labeling of fertilizer.				
96	§ 46-25-70	State	Statute	Misbranding.				
97	§ 46-25-75	State	Statute	Certain information to be published.				
98	§ 46-25-80	State	Statute	Penalties for violations of chapter.				
99	§ 46-25-210	State	Statute	Registration of fertilizer; application; fee.				
100	§ 46-25-240	State	Statute	When registration and sale may be prohibited.				
101	§ 46-25-250	State	Statute	Revocation or refusal of registration for fraud.				
102	§ 46-25-260	State	Statute	Exclusive use of brand name or trademark.				
103	§ 46-25-410	State	Statute	Information required on containers or with bulk shipments.				
104	§ 46-25-510	State	Statute	Sale or distribution of certain superphosphate prohibited.				
105	§ 46-25-520	State	Statute	Regulations concerning minimum standards for certain fertilizer material.				
106	§ 46-25-540	State	Statute	Filler.				
107	§ 46-25-570	State	Statute	Wet or bad mechanical condition.				
108	§ 46-25-710	State	Statute	Analyses of official samples; inspectors, chemists and other personnel; reports.				
109	§ 46-25-720	State	Statute	Entering premises; inspecting and sampling.				
110	§ 46-25-810	State	Statute	Inspection tax and tonnage reports; collection fee.				
111	§ 46-25-815	State	Statute	Fertilizer inspection fee.				
112	§ 46-25-820	State	Statute	Annual registration fee and inspection tax on packages containing ten pounds or less.				
113	§ 46-25-825	State	Statute	Registration of separately identified products.				
114	§ 46-25-830	State	Statute	Reports of sales to nonregistrants.				
115	§ 46-25-840	State	Statute	Financial statement or bond; records.				
116	§ 46-25-850	State	Statute	Examination of registrant's records.				
117	§ 46-25-860	State	Statute	Information confidential.				
118	§ 46-25-870	State	Statute	Exemptions.				
119	§ 46-25-1010	State	Statute	Penalties for plant nutrient deficiencies and other acts; appeals; distribution of penalty sums to consumers.				
120	§ 46-25-1060	State	Statute	Determination and publication of commercial values to use in assessing penalties.				
121	§ 46-25-1080	State	Statute	Penalty for shortage in weight.				

Item #	Law Number	Jurisdiction	Type of Law	Statutory Requirement and/or Authority Granted	Does this law specify who your agency must or may serve? (Y/N)	Does the law specify a product or service your agency must or may provide?	If yes, what type of service or product?	If other service or product, please specify what service or product.
122	§ 46-25-1090	State	Statute	Forfeiture for selling, transporting, or receiving improperly branded, tagged, or misbranded fertilizer.				
123	§ 46-25-1100	State	Statute	Actions by State to recover fines and penalties; liens.				
124	§ 46-25-1110	State	Statute	Seller deemed agent for service of process on out-of-state manufacturer.				
125	§ 46-25-1120	State	Statute	Analysis of fertilizer ordered sold.				
126	§ 46-25-1130	State	Statute	Remission of certain penalties.				
127	§ 46-25-1140	State	Statute	"Stop sale, use, or removal" orders.				
128	§ 46-25-1150	State	Statute	Distribution of adulterated fertilizer prohibited.				
129	§ 46-25-1160	State	Statute	Use of regulated materials not meeting requirements prohibited; penalties.				
130	§ 46-25-1170	State	Statute	Civil penalty in addition to other penalties.				
131	46-23-10 et seq	State	Statute	Provides for Clemson to regulate noxious weeds throughout the state.	Yes	Yes	Other service or product our agency must/may provide	Enforcement of State Regulations
132	§ 46-23-20	State	Statute	Definitions.				
133	§ 46-23-30	State	Statute	Commission may prevent introduction and dissemination of noxious weeds in State; remedies of owner of property destroyed or disposed of; regulations.				
134	§ 46-23-40	State	Statute	Quarantines.				
135	§ 46-23-50	State	Statute	Commissioner may detect and prevent spread of noxious weeds.				
136	§ 46-23-60	State	Statute	Inspections and seizures.				
137	§ 46-23-70	State	Statute	Cooperation with other governments and agencies.				
138	§ 46-23-80	State	Statute	Penalty.				
139	§ 46-23-90	State	Statute	Delegation of duties to director.				
140	46-37-10 et seq	State	Statute	Provides for Clemson to regulate the shipment and movement of honey bees throughout the state.	Yes	Yes	Other service or product our agency must/may provide	Enforcement of State Regulations
141	§ 46-37-20	State	Statute	Powers of Commission; rules and regulations.				
142	§ 46-37-25	State	Statute	Commission to delegate duties to director; authority of director.				
143	§ 46-37-30	State	Statute	Inspection; removal or destruction of bees, beekeeping fixtures and appliances.				
144	§ 46-37-40	State	Statute	Introduction of used fixtures regulated.				
145	§ 46-37-50	State	Statute	Penalty.				
146	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.	Yes	Yes	Other service or product our agency must/may provide	State Animal Health Authority
147	§ 47-4-20	State	Statute	Definitions.				
148	§ 47-4-30	State	Statute	Promulgation and enforcement of rules and regulations; permitted operations.				
149	§ 47-4-40	State	Statute	Delegation of duties to director.				
150	§ 47-4-50	State	Statute	Promulgation of regulations listing diseases; reporting suspected existence of disease.				
151	§ 47-4-60	State	Statute	Certificate of veterinary inspection; requirement for out-of-state livestock or poultry; quarantine of uncertified animals; exceptions.				
152	§ 47-4-70	State	Statute	Quarantine of livestock or poultry; violation; penalty; segregation of animals; liens; abandoned animals.				
153	§ 47-4-80	State	Statute	Condemned and destroyed livestock or poultry; indemnification of owner.				
154	§ 47-4-90	State	Statute	Stop of livestock transport to check for proper documentation.				
155	§ 47-4-100	State	Statute	Penalty for illegal transportation of livestock or poultry; civil liability.				
156	§ 47-4-110	State	Statute	Police power of commission members and agents; livestock law enforcement officers; employment, removal, duties; bond.				
157	§ 47-4-120	State	Statute	Inhibition of livestock inspection; penalty.				
158	§ 47-4-130	State	Statute	Violation of provision of Title 47 is a misdemeanor; penalties; enforcement of commission regulations in court.				
159	§ 47-4-140	State	Statute	Disposition of fines and fees.				

Item #	Law Number	Jurisdiction	Type of Law	Statutory Requirement and/or Authority Granted	Does this law specify who your agency must or may serve? (Y/N)	Does the law specify a product or service your agency must or may provide?	If yes, what type of service or product?	If other service or product, please specify what service or product.
160	§ 47-4-150	State	Statute	Advisory committees.				
161	§ 47-4-160	State	Statute	NOT LPH Livestock and poultry regulation; local laws and ordinances preempted; exceptions.				
162	§ 47-4-170	State	Statute	Confidential information; exemptions.				
163	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.	Yes	Yes	Other service or product our agency must/may provide	State Animal Health Authority
164	§ 47-11-20	State	Statute	Permits; fees; operation without a permit is a misdemeanor.				
165	§ 47-11-30	State	Statute	Application for permit; approval of changes in operating and ownership.				
166	§ 47-11-60	State	Statute	Bond.				
167	§ 47-11-70	State	Statute	Facilities regulations; inspections; penalties.				
168	§ 47-11-80	State	Statute	Records; identification required of persons selling at market; livestock haulers exempt from licenses.				
169	§ 47-11-85	State	Statute	Identification of animals sold in public livestock market or equine sales facility.				
170	§ 47-11-90	State	Statute	Brucellosis testing.				
171	§ 47-11-100	State	Statute	Tuberculosis and paratuberculosis tests required for all animals except those for immediate slaughter.				
172	§ 47-11-110	State	Statute	Establishment of slaughter assembly points.				
173	§ 47-11-120	State	Statute	Liability of person removing livestock for slaughter.				
174	§ 47-11-130	State	Statute	Infected or exposed animals or poultry.				
175	§ 47-11-140	State	Statute	Services of veterinarians provided for auctions; cost of tests.				
176	§ 47-11-150	State	Statute	Promulgation and enforcement of regulations.				
177	§ 47-11-160	State	Statute	Enforcement.				
178	§ 47-11-170	State	Statute	Violations.				
179	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.	Yes	Yes	Other service or product our agency must/may provide	State Animal Health Authority
180	§ 47-13-20	State	Statute	Powers and duties of commission.				
181	§ 47-13-30	State	Statute	Penalties for violations of chapter.				
182	§ 47-13-60	State	Statute	Sale of diseased livestock or fowl unlawful.				
183	§ 47-13-70	State	Statute	NOT LPH: Selling flesh of diseased or injured animals.				
184	§ 47-13-80	State	Statute	NOT LPH: Commissioner of Agriculture charged with enforcement of Section 47-13-70.				
185	§ 47-13-110	State	Statute	Sale of biological products containing living disease-producing agent.				
186	§ 47-13-130	State	Statute	Appropriation of funds in event of outbreak of diseases in animals and poultry.				
187	§ 47-13-150	State	Statute	Quarantine against importing slaughtered meat or poultry from disease-affected areas.				
188	§ 47-13-160	State	Statute	NOT LPH: Fitness of registered companion dog or cat for sale; definitions; certifications; remedies.				
189	§ 47-13-310	State	Statute	Notice to disinfect; violation is a misdemeanor.				
190	§ 47-13-320	State	Statute	Orders to disinfect animals exposed to cattle fever tick.				
191	§ 47-13-340	State	Statute	Venue of prosecutions under Section 47-13-310.				
192	§ 47-13-360	State	Statute	Indemnity payments for killing of certain animals.				
193	§ 47-13-370	State	Statute	Blank forms used to certify test results.				
194	§ 47-13-380	State	Statute	Appointment of appraisers of animals to be killed.				
195	§ 47-13-390	State	Statute	Procedure in event prescribed appraisal method is unsatisfactory to owner.				
196	§ 47-13-400	State	Statute	Form and payment of appraisements.				
197	§ 47-13-410	State	Statute	Procedure when animal killed because exposed to contagion or infection.				



Item #	Law Number	Jurisdiction	Type of Law	Statutory Requirement and/or Authority Granted	Does this law specify who your agency must or may serve? (Y/N)	Does the law specify a product or service your agency must or may provide?	If yes, what type of service or product?	If other service or product, please specify what service or product.
198	§ 47-13-420	State	Statute	Expenses of appraisal.				
199	§ 47-13-430	State	Statute	Indemnity for animals condemned for foot and mouth disease, vesicular exanthema, or rinderpest.				
200	§ 47-13-510	State	Statute	"Brucellosis" defined; declaring animal infected.				
201	§ 47-13-520	State	Statute	"Approved accredited veterinarian" defined.				
202	§ 47-13-530	State	Statute	Conduct of control.				
203	§ 47-13-540	State	Statute	Exposed or suspected animals subject to quarantine.				
204	§ 47-13-550	State	Statute	Vaccination.				
205	§ 47-13-560	State	Statute	Tattooing or branding of vaccinated animals.				
206	§ 47-13-570	State	Statute	Sale of vaccine.				
207	§ 47-13-580	State	Statute	Sale of cattle generally.				
208	§ 47-13-590	State	Statute	Sale of infected animals.				
209	§ 47-13-600	State	Statute	Liability for sale of infected animal except for slaughter.				
210	§ 47-13-610	State	Statute	Veterinarian shall require testing of suspected animals.				
211	§ 47-13-620	State	Statute	Compulsory tests of cattle.				
212	§ 47-13-630	State	Statute	Blood samples to be drawn by veterinarian.				
213	§ 47-13-640	State	Statute	Report and branding of infected animals.				
214	§ 47-13-650	State	Statute	Cooperation with United States Department of Agriculture; inspectors.				
215	§ 47-13-660	State	Statute	Reports.				
216	§ 47-13-670	State	Statute	Enforcement of rules and regulations.				
217	§ 47-13-680	State	Statute	Violations.				
218	§ 47-13-690	State	Statute	Cooperation of State with federal government in paying indemnity for infected cattle.				
219	§ 47-13-810	State	Statute	Tuberculosis and paratuberculosis declared contagious and infectious; animals subject to quarantine.				
220	§ 47-13-820	State	Statute	Tuberculin and paratuberculin tests; observation.				
221	§ 47-13-830	State	Statute	Quarantine of herds in which reactors are found.				
222	§ 47-13-840	State	Statute	Branding and slaughtering of reacting animals; disinfecting quarters and equipment.				
223	§ 47-13-850	State	Statute	Liability for disposing of affected animal except for immediate slaughter.				
224	§ 47-13-860	State	Statute	Official tests.				
225	§ 47-13-870	State	Statute	Inspectors; accepting assistance from United States Government.				
226	§ 47-13-880	State	Statute	Violations.				
227	§ 47-13-1210	State	Statute	Definitions.				
228	§ 47-13-1220	State	Statute	Authority and functions of commission.				
229	§ 47-13-1230	State	Statute	Promulgation of regulations by commission; poultry advisory committee.				
230	§ 47-13-1240	State	Statute	Penalties.				
231	§ 47-13-1310	State	Statute	Definitions.				
232	§ 47-13-1315	State	Statute	State veterinarian and Livestock-Poultry Service to develop and institute programs for control of equine infectious anemia.				
233	§ 47-13-1330	State	Statute	Official tests.				
234	§ 47-13-1340	State	Statute	Reporting of tests.				
235	§ 47-13-1350	State	Statute	Unlawful for horse to enter State unless tested; rules and regulations.				
236	§ 47-13-1360	State	Statute	Quarantine of exposed horses.				
237	§ 47-13-1365	State	Statute	Disposition of animal after second confirmatory test.				
238	§ 47-13-1370	State	Statute	Proof of tests required for public assembly of horses.				
239	§ 47-13-1380	State	Statute	Preventive measures for race tracks, horse shows, rodeos, horse owners, and veterinarians.				
240	§ 47-13-1390	State	Statute	False certificates unlawful; penalties.				
241	§ 47-13-1400	State	Statute	Additional penalties for violation of article.				

Item #	Law Number	Jurisdiction	Type of Law	Statutory Requirement and/or Authority Granted	Does this law specify who your agency must or may serve? (Y/N)	Does the law specify a product or service your agency must or may provide?	If yes, what type of service or product?	If other service or product, please specify what service or product.
242	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.	Yes	Yes	Other service or product our agency must/may provide	State Animal Health Authority
243	§ 47-22-20	State	Statute	Definitions				
244	§ 47-22-30	State	Statute	Duties of commission and director				
245	§ 47-22-40	State	Statute	Permit required for operation of transfer center and rendering processes.				
246	§ 47-22-50	State	Statute	Permit applications; information required; permit valid until revoked, relinquished, or abandoned.				
247	§ 47-22-60	State	Statute	Location and equipment requirements for transfer centers, rendering plants, and vehicles used to transfer raw materials.				
248	§ 47-22-70	State	Statute	Inspections; hours; information required to be available				
249	§ 47-22-80	State	Statute	Violations; penalties.				
250	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.	Yes	Yes	Other service or product our agency must/may provide	SC Meat Poultry Inspection
251	§ 47-17-20	State	Statute	Definitions.				
252	§ 47-17-30	State	Statute	Antemortem and postmortem inspections; quarantine, segregation, and reinspection; condemnation of unwholesome livestock and meat.				
253	§ 47-17-40	State	Statute	Sanitary conditions and practices required in slaughtering and processing establishments.				
254	§ 47-17-50	State	Statute	Official inspection marks and other information on or accompanying containers and carcasses.				
255	§ 47-17-60	State	Statute	Prohibited acts.				
256	§ 47-17-70	State	Statute	Slaughtering or processing except in compliance with article prohibited.				
257	§ 47-17-80	State	Statute	Records.				
258	§ 47-17-90	State	Statute	Exemptions from provisions requiring inspection by Director.				
259	§ 47-17-100	State	Statute	Violations.				
260	§ 47-17-120	State	Statute	Permit required; fee; application; refusal, revocation, or suspension.				
261	§ 47-17-130	State	Statute	Rules and regulations.				
262	§ 47-17-140	State	Statute	Article inapplicable to transactions regulated under Federal Meat Inspection Act; cooperation with Federal, state, and local agencies; inadequate personnel.				
263	§ 47-17-150	State	Statute	Cost of inspection.				
264	§ 47-17-310	State	Statute	Unlawful importation of foreign meat containing communicable diseases.				
265	§ 47-17-320	State	Statute	Enforcement; confiscation and destruction of meat.				
266	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.				
267	§ 47-19-20	State	Statute	Definitions				
268	§ 47-19-25	State	Statute	Voluntary inspection programs for certain birds by the Livestock Poultry Health Commission.				
269	§ 47-19-30	State	Statute	Designation of state agency for cooperating with Secretary of Agriculture under Federal Poultry Products Inspection Act.				
270	§ 47-19-35	State	Statute	Permits for slaughtering and packaging poultry; fees.				
271	§ 47-19-40	State	Statute	Inspection of live poultry, carcasses and poultry products; quarantine, segregation and reinspection; condemnation and destruction or reprocessing of adulterated carcasses.				
272	§ 47-19-50	State	Statute	Sanitary conditions and practices required in slaughtering and processing establishments.				
273	§ 47-19-60	State	Statute	Information required on containers and carcasses; styles and sizes of type; definitions and standards; false or misleading marking or labeling.				
274	§ 47-19-70	State	Statute	Prohibited acts.				

Item #	Law Number	Jurisdiction	Type of Law	Statutory Requirement and/or Authority Granted	Does this law specify who your agency must or may serve? (Y/N)	Does the law specify a product or service your agency must or may provide?	If yes, what type of service or product?	If other service or product, please specify what service or product.
275	§ 47-19-80	State	Statute	Processing except in compliance with chapter is prohibited.				
276	§ 47-19-90	State	Statute	Poultry and poultry products not intended for use as human food need not be inspected.				
277	§ 47-19-100	State	Statute	Persons required to keep records.				
278	§ 47-19-110	State	Statute	Registration with director required of persons engaged in poultry related businesses.				
279	§ 47-19-120	State	Statute	Violations; interference with person performing official duties under chapter.				
280	§ 47-19-130	State	Statute	Notice of violations and opportunity to be heard.				
281	§ 47-19-140	State	Statute	Exemptions.				
282	§ 47-19-150	State	Statute	Limiting entry of poultry products into inspected establishments.				
283	§ 47-19-165	State	Statute	Application of chapter to pigeons.				
284	§ 47-19-170	State	Statute	Rules and regulations.				
285	§ 47-19-180	State	Statute	Costs of inspection.				
286	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.	Yes	Yes	Other service or product our agency must/may provide	State Animal Health Authority
287	§ 47-6-20	State	Statute	Definitions.				
288	§ 47-6-30	State	Statute	Authority of state veterinarian and Livestock-Poultry Health Service of Clemson University.				
289	§ 47-6-40	State	Statute	Notification; investigation; public notice; elimination of disease from herd.				
290	§ 47-6-50	State	Statute	Imported swine.				
291	§ 47-6-60	State	Statute	Violation of chapter as misdemeanor; penalties. 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.	Yes	Yes	Other service or product our agency must/may provide	State Animal Health Authority
292	46-7-10	State	Statute	Reporting animal diseases caused by chemical or other terrorism				
293	§ 46-7-100	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.	Yes	Yes	Other service or product our agency must/may provide	Enforcement of State Regulations
294	46-7-30, and 46-7-50 and 46-7-80 thru 90	State	Statute	Assent to act of Congress for appropriations for experiment stations (1962)				
295	§ 46-7-50	State	Statute	Assent to act of Congress providing for research and cooperative extension work (1962)				
296	§ 46-7-80	State	Statute	Receipt and use of grants under act providing for research and cooperative extension work (1962)				
297	§ 46-7-90	State	Statute	Provides for Clemson to receive funding from Congress, as well as grants, while carrying out research and cooperative extension work.	Yes	Yes	Other service or product our agency must/may provide	Education to citizens of South Carolina
298	46-7-60 thru 90	State	Statute	Receipt and use of grants under act to further development of extension work.				
299	§ 46-7-70	State	Statute	Animal waste management training and certification programs.				
302	§ 46-7-110	State	Statute		Yes	Yes	Other service or product our agency must/may provide	Education of owners and operators of animal facility

Agency Name: CLEMSON UNIVERSITY - PSA

Fiscal Year 2018-2019  
Accountability Report

Agency Code and Section: P200 45

Customer Template

Service/Product Provided to Customers	Customer Segments	<u>Specify only for the following Segments: (1) Industry Name; (2) Professional Organization Name; (3) Public Demographics.</u>	Divisions or Major Programs	Description
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.	General Public	All animal agriculture (Poultry, Beef, Dairy, Swine, Equine, Sheep, Goats, Meat slaughter and processing, Zoos, etc.) & veterinarians	Livestock-Poultry Health Programs	Ensures the continued health of the livestock and poultry industry, ensure safe, wholesome, properly labeled meat and poultry products.
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	Clemson Experiment Station	Conducts research to identify critical issues and find solutions through research that support South Carolina's agriculture and forest industries.
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 --- All gender, All Economic Income levels, All education levels; Adult producers --- commercial and small farmers, landowners, professionals, All gender, all income levels, all education levels	Cooperative Extension Service	Improve the economy, environment, and well-being of South Carolinians through the delivery of unbiased research-based information and education.
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 Pesticide Regulation	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 crop to be certified in the program.	General Public	Growers	Dept. of Plant Industry - Seed 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	Dept. of Plant Industry - Fertilizer Program	Regulatory and Public Service Agency with Clemson University
To provide information and analytical testing of soil, plant tissue, feed and forage, animal waste, irrigation water, and compost.	General Public	Individual clients, commercial dealers, Extension Agents, Extension Specialists, and researchers in South Carolina	Agricultural Service Lab	Regulatory and Public Service Agency with Clemson University

**Agency Name:** CLEMSON UNIVERSITY - PSA

**Fiscal Year 2018-2019  
Accountability Report**

**Agency Code and Section:** P200 045

**Partner Template**

Name of Partner Entity	Type of Partner Entity	Description of Partnership	Associated Goal(s)
SC County Governments	Local Government	Quarterly meetings allows partners to communicate planned activities and share opportunities for partnering.	2
SC Elementary, Middle and High Schools	K-12 Education Institute	To provide educational programming (i.e. school enrichment, field trips, after school programs)	2
SC Department of Natural Resources	State Government	Partnered to provide technical assistance with workshops, programs, and field days.	2
SC Department of Education	K-12 Education Institute	Co-hosted a hands-on workshop for the School Gardening program	2
Natural Resources Conservation Service	Federal Government	Partnered to provide technical assistance with workshops, programs, and field days.	2
Soil and Water Conservation Service	Federal Government	Partnered to provide technical assistance with workshops, programs, and field days.	2
SC Department of Agriculture	State Government	Partnered to provide technical assistance with workshops, programs, and field days.	2
SC Peanut Growers	Non-Governmental Organization	Partnered to provide technical assistance with workshops, programs, and field days.	2
Piedmont Technical College	Higher Education Institute	Offer adult education and professional development for entrepreneurs	2
Gullah Farmers Cooperative	Non-Governmental Organization	Partnership to apply for Socially Disadvantaged Groups Grant through USDA	2
Allendale Correctional Institute	Local Government	Provide information on entrepreneurship, business planning and agribusiness	2
Daufuskie Island Conservancy	Non-Governmental Organization	Present information to local residents on backyard design for wildlife	2
South Carolina Forestry Commission	State Government	Partnered to provide technical assistance with workshops, programs, and field days.	2
Greenville Health System	Private Business Organization	Partnered to help provide health, wellness, nutrition and food information	2
AnMed Health	Private Business Organization	Partnered to help provide health, wellness, nutrition and food information	2
Tractor Supply	Private Business Organization	Partnered to provide technical assistance with workshops, programs, and field days.	2
Briggs & Stratton Corporation	Private Business Organization	Supplied training materials and engines for youth engagement programs	2
Quality Deer Management Association	Non-Governmental Organization	Partnered to deliver online content concerning the management of white-tailed deer and assisted with food plot projects	2
SC State Fair	Private Business Organization	Partnered to deliver information on scrapies in sheep, 4-H programs, tractor driving CDE and gardening,	2, 3
ArborGen	Private Business Organization	Partnered to provide technical assistance with workshops, programs, and field days.	2
Department of Health and Environmental Control	State Government	Partnered to deliver information to staff on various aspects of natural resources management	2
South Carolina Master Gardeners	Professional Association	Work with 4-H Gardening Project and also with county gardening programs in the schools	2
USDA	Federal Government	The USDA funds Experiment Station projects and all research results are reported annually to the USDA. 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 two USDA-ARS faculty members and two professional staff. USDA-ARS faculty study similar subjects as their Pee Dee REC counterparts, including cotton research and water management.	1

			Partner Template
Name of Partner Entity	Type of Partner Entity	Description of Partnership	Associated Goal(s)
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
North Carolina State University	Higher Education Institute	Pee Dee REC faculty member Dr. Francis Reay-Jones is currently working with Dr. Hannah Burrack of North Carolina State University to investigate the biology and pest status of the tobacco splitworm.	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
Pee Dee Land Trust	Non-Governmental Organization	Partnered to provide technical assistance with workshops, programs, and field days.	2
Center for Heirs Property Preservation	Non-Governmental Organization	Partnered to provide technical assistance with workshops, programs, and field days.	2
SC Department of Agriculture	State Government	Partnered to provide educational programming. 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, 4
SC State Parks	State Government	Partnered to provide technical assistance with workshops, programs, and field days.	2
Arbor One Farm Credit	Professional Association	Partnered to provide technical assistance with workshops, programs, and field days.	2
ArborGen		Partnered to provide technical assistance with workshops, programs, and field days.	
AgSouth	Professional Association	Partner to provide educational programming	2
USDA APHIS VS	Federal Government	Livestock & Poultry Animal Health disease prevention, surveillance, control and eradication	3
USDA FSIS	Federal Government	Matching funds and oversight of state meat inspection	3
SC DHEC	State Government	Collaboration on zoonotic disease reporting and testing	3
Clemson University Police Department	State Government	Serves as training support, firearms, legal update, maintain officer personnel files. Through their terminal load DPR arrest warrants into the NCIC database.	4
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.	3, 4
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
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
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
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
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

**Partner Template**

Name of Partner Entity	Type of Partner Entity	Description of Partnership	Associated Goal(s)
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
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
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
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
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
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
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
US Customs and Border Patrol	Federal Government	Contact DPR agents when shipments of mis-branded, illegal or otherwise questionable pesticides are processed through Customs.	3, 4

Agency Name: CLEMSON UNIVERSITY - PSA

Fiscal Year 2018-2019

Accountability Report

Agency Code: P200 Section: 045

Report and External Review Template

Item	Is this a Report, Review, or both?	Report or Review Name	Name of Entity Requesting the Report or Conducting Review	Type of Entity	Reporting Frequency	Current Fiscal Year: Submission Date or Review Timeline (MM/DD/YYYY)	Summary of Information Requested in the Report or Reviewed	Method to Access the Report or Information from the Review
1	External Review and Report	Comprehensive Review and Determination Report - Fiscal Year 2018 - South Carolina	Federal-State Audit Branch, Food Safety and Inspection Service, United States Department of Agriculture	Federal	Annually	December 2018 Report	Comprehensive: 1- Statutory Authority and Food Safety Regulations; 2- Inspection; 3- Product Sampling; 4- Staffing, Training, and Supervision; 5- Humane Handling; 6- Compliance; 7- Laboratory Methods and Quality Assurance Program; 8- Civil Rights; 9- Financial Accountability	<a href="https://www.fsis.usda.gov/wps/portal/fsis/topics/inspection/state-inspection-programs/state-inspection-and-cooperative-agreements/reviews-of-state-programs">https://www.fsis.usda.gov/wps/portal/fsis/topics/inspection/state-inspection-programs/state-inspection-and-cooperative-agreements/reviews-of-state-programs</a>
2	External Review and Report	ISO 17025:2005 Certification of Accreditation (Certificate No: L17-518)	Perry Johnson Laboratory Accreditation, Inc.	Outside Organization	Other	11/27/2017 to 12/31/2019	Biological and Food Microbiological Testing	<a href="http://www.pilabs.com/search-accredited-labs">http://www.pilabs.com/search-accredited-labs</a>
3	External Review and Report	Final and progress reports on all NIFA related projects	NIFA	Federal	Annually	March 1, 2019	Progress of research on 5-year federal projects	<a href="https://nifa.usda.gov/tool/reeport">https://nifa.usda.gov/tool/reeport</a>
4	External Review and Report	5 year Plan of Work	NIFA	Federal	Other	April 1, 2019	5 year Plan of Work for Extension and Research	<a href="https://nifa.usda.gov/tool/pow">https://nifa.usda.gov/tool/pow</a>
5	External Review and Report	Annual Report of Accomplishments	NIFA	Federal	Annually	April 1, 2019	Annual report of accomplishments for research and extension	<a href="https://nifa.usda.gov/resource/reports">https://nifa.usda.gov/resource/reports</a>