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| <b>AGENCY NAME:</b> | Clemson University PSA |                 |    |
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## Fiscal Year 2017-18 Accountability Report

### SUBMISSION FORM

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| <b>AGENCY MISSION</b> | <p><b>I. Mission Statement</b><br/>Clemson Public Service and Agriculture (PSA) is a state agency comprised of four units: Clemson Experiment Station, Clemson Cooperative Extension, Livestock 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 for research and outreach through the Clemson Experiment Station and Cooperative Extension Service.</p> |
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| <b>AGENCY VISION</b> | <p><b>II. Vision Statement</b><br/>To be acknowledged as the foremost provider of practical new discoveries, outreach education and technical assistance in the areas of agribusiness productivity and profitability, economic and community development, environmental conservation, food safety and nutrition, and 4-H youth development to enhance the quality of life for South Carolina's citizens.</p> |
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Please select yes or no if the agency has any major or minor (internal or external) recommendations that would allow the agency to operate more effectively and efficiently.

|                                       |                          |                                     |
|---------------------------------------|--------------------------|-------------------------------------|
|                                       | <b>Yes</b>               | <b>No</b>                           |
| <b>RESTRUCTURING RECOMMENDATIONS:</b> | <input type="checkbox"/> | <input checked="" 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 Askew       | 864-656-3140 | gaskew@clemson.edu |
| <b>SECONDARY CONTACT:</b> | Dr. Della Baker Sprowl | 864-650-1955 | dbaker@clemson.edu |

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I have reviewed and approved the enclosed FY 2017-18 Accountability Report, which is complete and accurate to the extent of my knowledge.

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

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

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## **AGENCY’S DISCUSSION AND ANALYSIS**

Clemson PSA is part of the national USDA system of research and knowledge transfer. We work collaboratively with stakeholders and other state agencies to identify issues and develop research-based solutions that enhance South Carolina’s largest industry—agribusiness—that contributes \$41.7 billion and 200,000 jobs to the state economy.

Clemson PSA outreach and research facilities include the Clemson Experimental Forest, which comprises 17,500 acres of near-campus forestland dedicated to education, research and demonstration in order to better understand and manage forest resources for the benefit of society, and the South Carolina Botanical Garden (SCBG), a 295-acre public sanctuary focusing on teaching, research, and outreach that advances awareness and understanding of plants, animals, minerals and our culture.

Clemson PSA also includes a host of centers and institutes whose missions support and advance South Carolina’s agribusiness and forestry industries while also developing solutions to sustainably manage the state’s natural resources. These include the Institute of Translational Genomics, Wood Utilization + Design Institute, South Carolina Water Resources Center, Animal Coproducts Research and Education Center and Archbold Tropical Research and Education Center.

PSA is currently under the leadership of Vice President for Public Service and Agriculture, Dr. George R. Askew and the new College of Agriculture, Forestry and Life Sciences (CAFLS) Dean, Dr. Keith L. Belli. Belli serves as the chief academic and administrative officer and associate vice president for Clemson Public Service and Agriculture (PSA) where he collaborates with Askew to advance the interests of both complimentary units. Other unit heads include Dr. Stephen Cole, Regulatory Services Director; Dr. Boyd Parr, Livestock, Poultry and Health Director; Dr. Paula Agudelo, Clemson Experiment Station Director; and Dr. Thomas R. Dobbins, Cooperative Extension Service Director. Clemson University continues to be led by President, Dr. James P. Clements, and is a 23<sup>rd</sup> best national public university, as ranked by *U.S. News & World Report*.

Public Service and Agriculture (PSA) is at the core of Clemson’s land-grant university mission of teaching, research, and public service and is uniquely equipped to transfer science-based information to the state’s citizens through the Extension Service, which conducts educational programs in all 46 counties targeted to the local needs and at centers around the state. PSA develops and delivers research-based information in five major focus areas - agrisystems productivity and profitability, natural and environmental resources, food safety and nutrition, agribusiness, and 4-H youth and families. Clemson PSA

Clemson University’s Public Service and Agriculture (PSA) welcomes the opportunity to provide: 1) relevant information regarding its mission, funding, and performance; 2) external and internal factors affecting our performance this year; 3) our current efforts and results; and 4) present and anticipated changes of its four major units - Regulatory Services, Livestock-Poultry Health, Experiment Station, and Extension Service.

**Regulatory Services** programs protect the state from exotic and invasive species, ensure that pesticides are used safely, regulate the structural pest control industry, verify that fertilizer and lime meet standards and labeled guarantees, conduct programs for seed and organic certification, provide

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diagnosis of plant pests, and ensure readiness to respond to an agroterrorism event impacting the state's agriculture.

**Livestock-Poultry Health (LPH) Programs** ensure the health and safety of the livestock/poultry industries and companion animals, protect the meat supply and public health of South Carolinians and serve as lead agency for animal/agricultural emergency response (ESF-17) in state emergency operations plan.

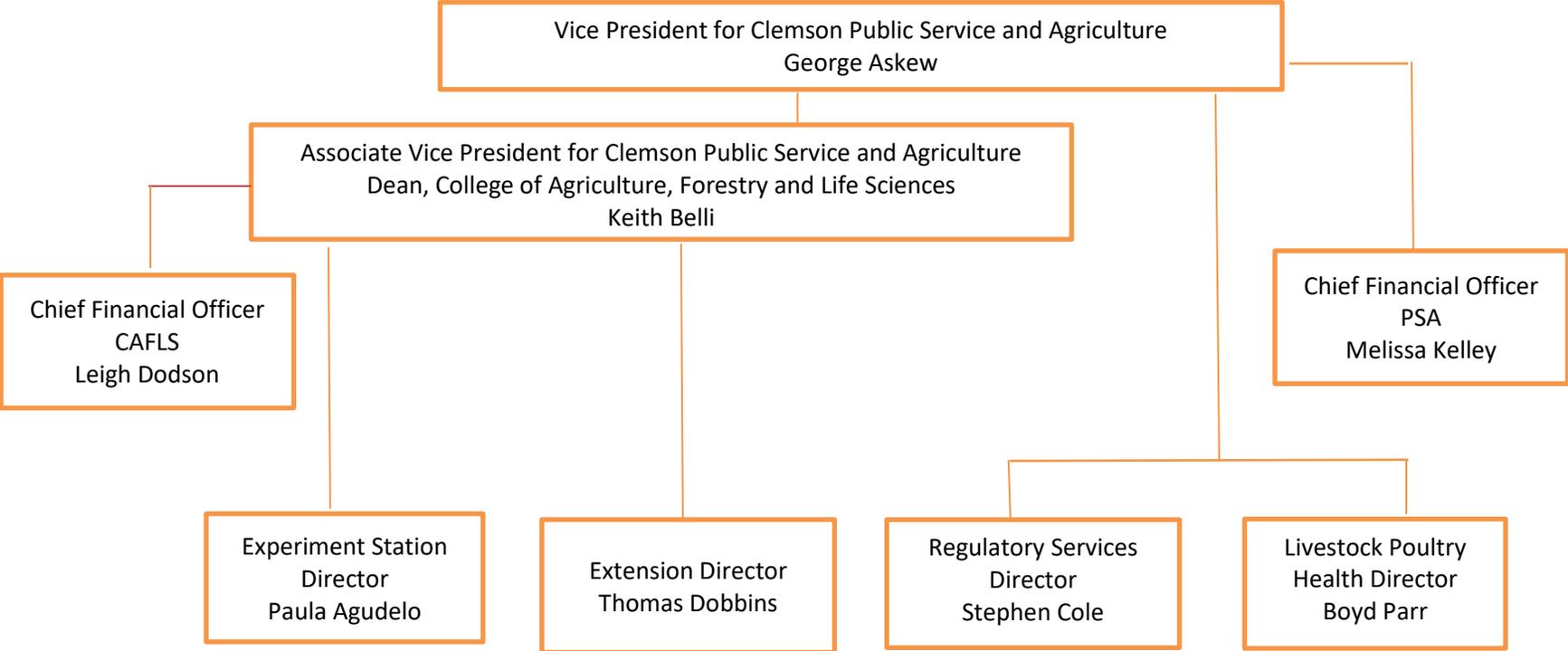
**Clemson Experiment Station** scientists work to improve the quality of life for people in South Carolina, the nation, and the world by providing science-based information on major issues facing decision makers.

**Cooperative Extension Service**, with offices in all 46 counties, has professionals that meet the diverse needs of South Carolina citizens by delivering research-based information on agriculture, the environment, food safety and nutrition, agribusiness, and 4-H youth and families to farmers, producers, agribusiness professionals, and individuals across the state. Educating people in these types of areas in each state is the directive of the Land Grant College Act. The land grant system would not be able to function if Extension did not accomplish its goals. South Carolina citizens and PSA stakeholders have direct input into decisions of the Extension system through statewide planning efforts and a needs identification process. The exchange between field and campus staff informs the research agenda, ensuring that program development addresses real needs of South Carolinians. In addition, working with Regulatory and LPH, our motto is *regulation through education*.

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### PSA Organizational Chart



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**REGULATORY SERVICES** [www.clemson.edu/public/regualtory/](http://www.clemson.edu/public/regualtory/)

Efforts to expand collaboration between Clemson Regulatory Services and Clemson Extension continues. Regulatory and Extension personnel identified the following programs that could be expanded by collaboration:

- **Integrated Pest Management in Schools:** 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. DPR’s compliance inspectors have collected pesticide application records for over 900 schools since the launch of this program. These application records are reviewed by the Reduced Risk Specialist and logged for future reference. Application records for 10 public school districts and 33 commercial and noncommercial companies that perform pest control services for schools were reviewed during the last fiscal year. The reduced risk specialist provided 18 training classes in the last fiscal year for Public School Districts across the state in which 392 school employees were trained.
- **Promoting Stewardship with Pesticides:**
  - The Department of Pesticide Regulation (DPR) along with the South Carolina Department of Agriculture collected 210,601 pounds of used pesticide containers for recycling during the last fiscal year. Since the program began in 1993, nearly 3+ million pounds of pesticide containers have been recycled, representing an equal number of containers.
  - In FY18 DPR placed a greater emphasis on agriculture related pesticide compliance with 11 aerial applicator inspections, 1 ag. use inspections for dicamba technologies and 1,380 applicators completing required dicamba training for 2018.
- **Supporting Agriculture in South Carolina:**
  - The purpose of the analytical section of the Agricultural Service Laboratory is to provide information and analytical testing for soil, plant tissue, feed and forage, animal waste, irrigation water, and compost samples. Additionally, the Ag Service Lab completed the following activities in 2018:
    - The lab hosted 8 tours for university classes, Master Gardeners, extension employees, and others
    - An evening class was held for the New and Beginning Farmer Program participants with a lecture and lab tour
    - The lab participated in a Precision Ag Event at Edisto Rec by hosting a vendor table.
      - The Agricultural Service Laboratory processed a total of 66,593 samples for 2017. Those samples fall into the following categories: Soil samples: 54,296; Plant tissue samples: 1,408; Feed samples: 1,003; Animal waste samples: 1,496; Irrigation water samples: 837; Compost samples: 85; Other samples (research and commercial customers): 7,468.
  - 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 2017-2018 growing season, the department certified over 14,000 acres of crops with 5,300 acres being turfgrass for certified sod production.
  - The Department of Plant Industry’s Fertilizer Program collected 2,224 Fertilizer samples with 95 samples being deficient. The calculated deficiency rate for the year was 4.2%. This was a decrease from a 6.24% deficiency rate the previous year. The target deficiency rate is 20%.

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Fertilizer tonnage was reported at 593,048 tons, an increase of 181,930 tons from the previous year.

- Apiary Inspection Program: The program continues to grow and serve this vital state agricultural industry. In 2017 DPI conducted 94 apiary inspections for disease, pest and export certification throughout South Carolina. These inspections may include investigative incidences of suspected pests of regulatory concern affecting honey bees and initiate regulatory action if indicated. DPI monitors honey bees and fixtures shipped or moved into South Carolina from other states and countries to assure that they have been inspected and are accompanied by a certificate of inspection issued by a plant or apiary official from the state, county or country from which the bees originated. There were 60 honey bee import permits issued. Imports included 23,965 colonies, 9,978 three-pound bee packages and 1,180 queens imported into SC. DPI inspects honey bees and fixtures to be moved from South Carolina into other states and countries, and issues certificates of inspection verifying apparent freedom from contagious and infectious diseases. There were 55 honey bee export certificates issued. Exports included 31,204 colonies, 550 three-pound packages and 3,800 queens. DPI Apiary surveyed 24 apiaries for the National Honey Bee Survey for diseases, pests and pesticides.

- **Protecting South Carolina’s Environment:**

- Following the first-time discovery in FY18 of this federally and state regulated pest, the Department of Plant Industry established a statewide quarantine on the regulated articles associated with the human-assisted movement of the emerald ash borer. By implementing a statewide quarantine in lieu of, a more localized one, we were able to lessen the impacts associated with several affected industries while continuing to prevent the increased movement of the pest. For FY19 we have expanded our trapping efforts.
- In a continued effort to improve collaborations with other state and federal agencies, the Department of Plant Industry collaborated with the South Carolina Forestry Commission on executing their Cogongrass Prevention and Eradication grant, with Clemson Extension on various regulatory trainings and field exercises, and with USDA-APHIS-PPQ in fulfilling the requirements of their Witchweed Prevention and Eradication grant.

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

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

**Animal agriculture contributes \$14.5 billion to South Carolina’s overall economy**, with over 58% of direct farm sales in South Carolina agriculture in a 2015 study. Livestock-Poultry Health (LPH) programs protect and monitor the health of all livestock and poultry in the state and are integral to this industry’s continuation and growth. Animal Health Programs personnel made 920 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 USDA.

**Virulent Newcastle Disease (VND – formerly exotic Newcastle Disease)** was discovered in backyard poultry in Southern California in the Spring of 2018, representing the first confirmed cases of the disease in the US since

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2003. Over 100 state and federal personnel are actively working to identify and eliminate all infected birds and have been successful in preventing spread to commercial poultry as of July 2018. **Low Pathogenic Avian Influenza (LPAI)** in commercial and backyard poultry in Missouri and Texas was confirmed in the Winter of 2018 and successfully contained and eliminated. South Carolina did not have any diagnoses of either HPAI, LPAI or vND. A top priority for Livestock-Poultry Health continues to be to encourage management practices to reduce the possibility of infection and to assure early detection should HPAI, LPAI and/or vND infect SC poultry, followed by swift eradication and rapid recovery for the state’s poultry producers. “Disease free” status improves access to both interstate and international markets. The state veterinarian signed 252 letters this year certifying South Carolina’s status for poultry enabling import to certain countries. **S.C. chicken exports were valued at \$202 million in 2017** (US Census Bureau).

**SC Ag-Watch** program led by LPH continues to provide training to livestock owners on improved biosecurity practices, foreign animal disease awareness, and notification procedures - emphasizing prevention of disease along with disease surveillance, control, and eradication. A new edition of the SC Ag-Watch Manual was published in December 2017, made possible by Homeland Security grant funding administered through SLED. In addition to producers, state and local emergency managers use SC Ag-Watch Manuals as a reference for agricultural emergencies.

With leadership from LPH veterinarians, the **SC Veterinary Reserve Corps (SCVRC)** has been created, under the auspices of the Surgeon General’s Medical Reserve Corps. 59 veterinarians, veterinary technicians, animal handlers or veterinary practice managers have signed up to date. SCVRC members are a resource for emergency managers at local, regional and state levels with animal and agriculture issues in disasters. One example of the training activities provided for SCVRC members was Slackwater animal rescue training held on Lake Thurmond at Hickory Knob State Park in April of 2018.

The **Mid-Atlantic Secure Milk Supply Project** is regional project developed in collaboration with all S.C. dairy industry segments that SC helped create to mitigate potential economic losses of non-infected, voluntarily participating dairy farms in the event of a foot and mouth disease outbreak, without significantly increasing the likelihood that the disease could spread. This project is one example of the work LPH is doing to promote business continuity during emergency disease events under the national Secure Food Supply umbrellas: Secure Poultry, Secure Pork and Secure Beef in addition to Secure Milk.

The **Veterinary Diagnostic Center** completed 100,427 tests and procedures during FY17-18 in performing its animal and food safety diagnostic duties. Of these, 99,337 were related to production animals and regulatory duties; the remaining 1,090 were from companion animals and wildlife.

**SC Meat-Poultry Inspection** completed its **annual audit by USDA Food Safety Inspection Service**. This review is to ensure a safe meat supply. The S.C. program continues to meet or exceed the federal requirements. Department activities included 100% on-line inspection during slaughter operations on 1,772 slaughter days that processed 39,294 livestock and more than 3.8 million poultry. Additionally, inspectors performed 45,401 individual inspection procedures during inspection in 74 slaughter and processing facilities served.

Livestock-Poultry Health helps assure 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, National Animal Health Information Technology Board (USDA), National Poultry Improvement Plan (NPIP) Coordinating Council, as Co-Chair of USAHA Committee on Animal Emergency Management, S.C. Delegate in AVMA House of Delegates, Past-President of American Association of Small Ruminant Practitioners, and President of American Association of Extension Veterinarians.

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**CLEMSON EXPERIMENT STATION** [http://www.clemson.edu/public/experiment\\_station/](http://www.clemson.edu/public/experiment_station/)

As a leading land-grant public research institution, Clemson University highlights its federal **grant activities** in this report. The number of externally funded research grants is one measure of Experiment Station scientists' success in competing for limited funding. These data go along with a higher number of educational programs and published peer-reviewed journal articles. Over the past year, there has been increased focus on integrating the Research and Education missions of the Experiment Station. We highlight the increase in graduate students, many of them advised or co-advised by faculty located at the Research and Education Centers (RECs).

**COOPERATIVE EXTENSION** [www.clemson.edu/extension/](http://www.clemson.edu/extension/)

A new Extension employee onboarding program was launched in 2018. This year-long program equips new Extension agents with the tools and resources necessary to successfully deliver the Extension mission. An onboarding manual was compiled for supervisors with a step-by-step guide to aid in ensuring a smooth onboarding process for new employees. In addition to the guide, six in-person training sessions are required of new employees. These training sessions provide hands-on lessons for learning various aspects of the job and introduces new employees to support personnel throughout the state. The new onboarding program will make new employees feel welcome, more confident as new Extension agents, and provide tools for future success. As of May 2018, the first two in-person workshops, Marketing & Communicating Programs and Field Operations were conducted with a total of 12 and 13 agents in attendance (respective).

A new Extension employee leadership program, Extension Emerging Leadership Institute, was planned and ready to launch in November, 2018. The goal of the program is to develop the leadership skills of existing Extension personnel to fill vacated leadership roles due to retirements. The program has an entry level program and an advanced level. To complete both levels will require a one-year commitment to the program. The initial program will accept 20 employees based on a competitive selection process.

Clemson Extension is divided into nine program focus areas. These areas include: **4-H, agronomy, agribusiness, agriculture education, food systems and safety, forestry and natural resources, health and nutrition, horticulture and livestock and forages**. Across these focus areas, a total of 132,319 adults and youth participated in 11,297 programs throughout the state. As a result of these efforts, almost 95% of program participants reported gaining valuable knowledge. These programs were offered as either in-person programs, online programs or a hybrid program (a combination of in-person and online).

In the area of **4-H**, a total of 104,562 youth participated in programs focusing on science, engineering and technology, citizenship and healthy lifestyles. The 4-H program also had 3,770 adult volunteers and an additional 522 youth volunteers serving in leadership roles. The 4-H STEM programs achieved almost 99% participation, while Citizenship programs saw 22% participation rate and Healthy Lifestyles had a 19% participation rate. (These numbers are a reflection of the participation in each program area by 4-H members and some 4-H members enroll in multiple programs and therefore, participation rates do not equal 100%.) The Pinckney 4-H Leadership program completed its 3<sup>rd</sup> year with one leadership camp hosting 37 youth. The program is designed to focus on understanding various leadership styles, understanding themselves better, promoting teamwork and the importance of civic duty.

In the area of **Forestry and Natural Resources**, land management and water resources conservation continue to be a focus. In the current Fiscal Year, a total of 1,244 programs and workshops were conducted throughout the state with a total of 12,521 participants. This program potentially impacted 151,314 acres of land across the state. The Master Naturalist program reported 25,699 volunteer hours, demonstrating a strong program presence for South Carolina. Water resources remains a focus within the state with citizen education programs and water use surveys. The Carolina Clear program is a partnership between Clemson Extension and cities, towns, and counties across the state to deliver comprehensive stormwater education and public involvement opportunities.

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The **Horticulture** team is tasked with environmental education for industry professionals, consumer education and landscape pest management. In addition, they are responsible for the protection of collards, peaches and organic production systems. Household and structural pest control is also a major focus area for the Horticulture team. One important area of consumer education is the Home and Garden Information Center (HGIC) which provides information on a variety of topics and areas to consumers in South Carolina and bordering states. The HGIC responded to 11,601 requests for from citizens through telephone and email. In addition, the HGIC website logged a total of 2,354,674 unique hits, confirming the importance of this resource to SC. To support the internet searches for information, the HGIC updated 115 facts sheets and added another 34 new fact sheets.

As South Carolina is concerned with major threats to the food supply from diseases and pests to agro-terrorism, the **Agronomy** team works to improve production, ward off pests and diseases and provide pesticide applicator training. Agents throughout the state provided information and conducted demonstrations of field trials for Bt varieties, soybeans, hemp, corn, peanut, and cotton. Pest management strategies for all crops throughout the state were presented to farmers through workshops, conferences and one-on-one farm visits.

**Agriculture education** plays a vital role in maintaining our agricultural economy. Participation in agriculture education is one indicator the importance of this program. In FY 2017-2018, 259 programs were conducted that attracted 905 participants. In promoting agricultural education, almost 19,000 people were reached through media activities. Emphasizing the importance of agriculture education will continue to be a focus area in the future.

Changes in government regulations and the economic environment have increased the risks of farming in South Carolina. As such, the **Agribusiness** team is tasked with providing information to farmers to mitigate the risks and plan for long-term profitability and sustainability. Many of the Agribusiness agents spent a considerable amount of time providing assistance to new farms, established farms, expanding farms and farm alliances. A new tool was also designed for the sod industry that will assist sod farmers to gauge the market and assess future marketing opportunities.

It is estimated that 48 million individuals, or one out of six people, become sick each year from the consumption of contaminated food. It is the overall goal of the **Food Systems and Safety** program team to educate food industry personnel as well as consumers on best practices related to food safety. The ServSafe® program reported a 73% success rate for food industry professionals taking the exam. Food safety is also the responsibility of individuals, which is another focus of the Food Systems and Safety team. These programs are designed to meet the Food Safety Modernization Act (FSMA) of 2011 that mandates seven key elements of food safety principles.

South Carolina ranks 13<sup>th</sup> in the nation for rates of adult obesity and 2<sup>nd</sup> in the nation for rates of obesity in children ages 10-17. This trend results in long-term physical and mental detrimental impacts that may last a lifetime. In order to reverse this trend, the **Health and Nutrition** team provides educational opportunities throughout the state to teach healthy food choices and the role nutrition plays in health. The Health and Nutrition team administers the Expanded Food and Nutrition Education Program (EFNEP) for adults and children and youth.

The Confined Animal Manure Managers (Camm) program is headed by the **Livestock and Forages** team to reduce the impacts of animal facilities on aesthetics (odors) and natural resources, particularly water. This program is in response to Regulation R.61-43, Standards for the Permitting of Agricultural Animal Facilities and trained 1,216 individuals in FY 2017-18 in 70 programs held across the state. The Livestock and Forages team is also instrumental in educating farmers on improved breeding and foraging strategies. For example, 318 farmers utilized Expected Prodigy Differences (EPD) in sire selection/proper breed complementation and/or improved health and reproduction methods. These improved techniques as presented by Clemson Extension will help sustain long-term production in farms across the state.

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Strategic Planning and Performance Measurement Template

| Statewide Enterprise Strategic Objective   | Type | Item # |          |         | Description   | 2017-18     |        |        | Time Applicable  | Data Source and Availability                             | Calculation Method   | Meaningful Use of Measure  |
|--|------|--------|----------|---------|---|-------------|--------|--------|------------------|--|--|--|
|  |      | Goal   | Strategy | Measure |   | Base        | Target | Actual |                  |  |  |  |
| Education, Training, and Human Development | 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.                |             |        |        |                  |  |  |  |
| Education, Training, and Human Development | 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 submitted proposals and funding requests to granting agencies and increase the number of funded grants  | 154         | 150    | 155    | 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 technical contributions related to research   | new measure | 94     | 78     | 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. |
| Education, Training, and Human Development | S    |        | 1.2      |         | Strengthen extension programs at Research and Educational Centers (RECs) and on campus that contribute to the economic development of South Carolina.                               |             |        |        |                  |  |  |  |
| Education, Training, and Human Development | M    |        |          | 1.2.1   | New educational programs developed  | 524         | 500    | 476    | July 1 - June 30 | Clemson University Management Information System (CUMIS) | 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 | S    |        | 1.3      |         | Improve undergraduate and graduate education experiences offered at RECs.   |             |        |        |                  |  |  |  |
| Education, Training, and Human Development | M    |        |          | 1.3.1   | Number of of graduate students recruited and retained   | 281         | 250    | 326    | 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. |
| Education, Training, and Human Development | G    | 2      |          |         | The Clemson Extension Service will improve the economy, environment, and well-being of South Carolinians through the delivery of unbiased research-based information and education. |             |        |        |                  |  |  |  |
| Education, Training, and Human Development | S    |        | 2.1      |         | Develop and implement agricultural production systems that are economically sustainable and environmentally sound   |             |        |        |                  |  |  |  |
| Education, Training, and Human Development | M    |        |          | 2.1.1   | Percentage of producers implementing practices learned  | 67%         | 62%    | 58%    | July 1- June 30  | Clemson University Management Information System (CUMIS) | Number of people implementing practices divided by number of people attending programs | Demonstrates the value of information presented in programs  |

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Strategic Planning and Performance Measurement Template

| Statewide Enterprise Strategic Objective   | Type | Item # |          |         | Description   | 2017-18   |           |           | Time Applicable | Data Source and Availability | Calculation Method  | Meaningful Use of Measure   |
|--|------|--------|----------|---------|---|-----------|-----------|-----------|-----------------|------------------------------|---|---|
|  |      | Goal   | Strategy | Measure |   | Base      | Target    | Actual    |                 |                              |   |   |
| Education, Training, and Human Development |      |        |          | 2.1.2   | Number of acres affected by integrated crop management (ICM) activities   | 82,410    | 95,000    | 162,225   | July 1- June 30 | CUMIS                        | Number of acres reported  | A measure of direct impact on farms across SC that are more profitable and has less impact on the environment |
| Education, Training, and Human Development | S    |        |          | 2.2     | <b>Promote healthy lifestyles and nutrition choices for the citizens of South Carolina</b>  |           |           |           |                 |                              |   |   |
| Healthy and Safe Families                  | M    |        |          | 2.2.1   | Number of people provided health and nutrition information through various media outlets  | 4,062,416 | 3,490,492 | 3,589,180 | July 1- June 30 | CUMIS                        | Forecast data using prediction from linear regression model                                   | Indicates the amount of educational effort that can potentially improve health and maintain healthy lifestyle |
| Healthy and Safe Families                  | M    |        |          | 2.2.2   | Percentage of people adopting a nutrition practice  | 46%       | 45%       | 47%       | July 1- June 30 | CUMIS                        | Number of people adopting a nutrition practice divided by number of people attending programs | Measures the benefit that health and nutrition information can make in the lives of citizens                  |
| Education, Training, and Human Development | S    |        |          | 2.3     | <b>Improve food quality and safety for citizens of South Carolina</b>   |           |           |           |                 |                              |   |   |
| Education, Training, and Human Development | M    |        |          | 2.3.1   | Percentage of participants passing food regulation and safety exam (ServSafe)   | 73%       | 70%       | 73%       | July 1- June 30 | Food safety training exams   | Number of participants passing the exam divided by the number of people taking the exam       | Provides a measure of ability of participant to understand and apply DHEC regulations and requirements        |
| Education, Training, and Human Development |      |        |          | 2.3.2   | Percentage of participants gaining knowledge of food safety and food systems  | 99%       | 95%       | 98%       | July 1- June 30 | CUMIS                        | Number of participants gaining knowledge divided by number of participants in programs.       | Indicates the number of people in SC that will be able to preserve food and therefore, cut down on food waste |
| Education, Training, and Human Development | S    |        |          | 2.4     | <b>Provide information and training on efficient animal production systems and reduction of impact on natural resources</b>                   |           |           |           |                 |                              |   |   |
| Education, Training, and Human Development | M    |        |          | 2.4.1   | Number of collaborations with advisory committees, boards or associations   | 57        | 65        | 95        | July 1- June 30 | CUMIS                        | Number of collaborations reported   | Demonstrates collaboration with other entities to reach existing, diverse and new audiences                   |
| Education, Training, and Human Development | M    |        |          | 2.4.2   | Percent of producers implementing recommended breeding, grazing management systems and/or establishing improved forage cultivars              | 4%        | 5%        | 31%       | July 1- June 30 | CUMIS                        | Reported number of producers implementing practices   | Establishes efficacy of techniques being taught to producers  |
| Education, Training, and Human Development | S    |        |          | 2.5     | <b>Conserve and protect all natural resources throughout South Carolina through education and implementation of best management practices</b> |           |           |           |                 |                              |   |   |

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|  |      | Goal   | Strategy | Measure |  | Base    | Target | Actual  |                 |  |  |  |
| Education, Training, and Human Development | M    |        |          | 2.5.1   | Percent of landowners, homeowners, land managers, biologists, engineers, water resources managers and private citizens utilizing practices taught during programs and workshops    | 48%     | 50%    | 54%     | July 1- June 30 | CUMIS                                  | Number 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 preseted   |
| Education, Training, and Human Development | M    |        |          | 2.5.2   | Number of acres owned/managed potentially impacted by forestry and wildlife workshops and programs and acres impacted by Master Naturalist programs                                | New     | New    | 151,314 | July 1- June 30 | CUMIS and Master Naturalist Volunteers | Number 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.   |
| Education, Training, and Human Development | S    |        |          | 2.6     | <b>Provide relevant information for producers and consumers of horticultural products while minimizing the effects of pests and pesticide applications</b>                         |         |        |         |                 |  |  |  |
| Education, Training, and Human Development | M    |        |          | 2.6.1   | Number of acres affected by integrated crop management (ICM) activities  | 58,801  | 15,000 | 10,044  | July 1- June 30 | CUMIS                                  | Reported number of acres   | Highlights the impact of teaching ICM practices  |
| Education, Training, and Human Development | M    |        |          | 2.6.2   | Number of reported adult volunteer hours contributed   | 76,872  | 70,000 | 63,347  | July 1- June 30 | CUMIS                                  | Number of hours reported by volunteers   | Suggests the positive impacts that volunteers and consumers have in communities to improve environment through sound horticultural practices |
| Education, Training, and Human Development | S    |        |          | 2.7     | <b>Recruit and prepare the future agricultural workforce and provide educational opportunities for the community to stay on the cutting edge of technology and business skills</b> |         |        |         |                 |  |  |  |
| Education, Training, and Human Development | M    |        |          | 2.7.1   | Number of people participating in programs and workshops for the first time during the current fiscal year   | 1,150   | 1,000  | 888     | July 1- June 30 | CUMIS                                  | Number of reported first time participants   | Indicates the importance and value of recruiting non-traditional students and adults into agricultural fields                                |
| Education, Training, and Human Development | S    |        |          | 2.8     | <b>Development of management and risk assessment and other tools and techniques to assist large scale and small and limited resources farmers in remaining profitable</b>          |         |        |         |                 |  |  |  |
| Education, Training, and Human Development | M    |        |          | 2.8.1   | Percentage of people applying skills learned during programs and workshops   | 99%     | 75%    | 73%     | July 1- June 30 | CUMIS                                  | Number of people utilizing knowledge divided by number of people participating in programs       | Assessment of the value of agribusiness programs to farmers of all scales in SC  |
| Education, Training, and Human Development | S    |        |          | 2.9     | <b>Empower youth to grow into healthy and productive members of society through hands-on, inclusive and mentored learning opportunities</b>  |         |        |         |                 |  |  |  |

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|--|------|--------|----------|---------|---|---------|----------------------|--------|------------------|------------------------------|---|---|
|  |      | Goal   | Strategy | Measure |   | Base    | Target               | Actual |                  |                              |   |   |
| Education, Training, and Human Development | M    |        |          | 2.9.1   | Percentage of 4-H members engaged in science, engineering and technology activities (ES-237)  | 72%     | 75%                  | 99%    | July 1- June 30  | ES-237                       | Number of 4-H participants in science, engineering and technology programs divided by total 4-H participation | Demonstrates the value of 4-H programs to youth in the areas of science, engineering and technology   |
| Education, Training, and Human Development | M    |        |          | 2.9.2   | Number of adult volunteer hours (ES-237)  | 2,690   | Difficult to predict | 3,770  | July 1- June 30  | ES-237                       | Reported in ES-237  | Indication of effective volunteer support system which is vital to the success of the 4-H youth development program.                              |
| Education, Training, and Human Development | M    |        |          | 2.9.3   | Percentage of 4-H members engaged in citizenship and community service programs (ES-237)  | 18%     | 20%                  | 22%    | Sept 1 - Aug 31  | ES-237                       | Number of 4-H participants in citizenship programs divided by total 4-H participation                         | The number of 4-Hers participating in community, leadership and citizenship projects conveys the reach of the 4-H program in SC                   |
| Maintaining Safety, Integrity and Security | 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>  |         |                      |        |                  |                              |   |   |
| Maintaining Safety, Integrity and Security | 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 premises registered by Livestock Poultry Health   | 6,462   | 6,562                | 6,679  | 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 |      |        |          | 3.1.3   | Number of inspections and investigations conducted at locations including livestock markets, exhibitions, sales, and on livestock farms throughout South Carolina   | 819     | 450                  | 920    | 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. |

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|--|------|--------|----------|---------|---|----------|---------|----------|----------------------|------------------------------|---|---|
|  |      | Goal   | Strategy | Measure |   | Base     | Target  | Actual   |                      |                              |   |   |
| Maintaining Safety, Integrity and Security | 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 |      |        |          | 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 |      |        |          | 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.                       |
| Maintaining Safety, Integrity and Security | 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   | Final 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.                           |

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|  |      | Goal   | Strategy | Measure |  | Base               | Target      | Actual            |                  |  |   |  |
| Maintaining Safety, Integrity and Security |      |        |          | 3.3.3   | Number of diagnostic procedures; Percent of regulatory/production animal related   | 105,754;<br>99.26% | 80,000; 90% | 100,427;<br>98.9% | 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.   |
| Maintaining Safety, Integrity and Security | G    | 4      |          |         | <b>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.</b> |                    |             |                   |                  |  |   |  |
| Maintaining Safety, Integrity and Security | S    |        | 4.1      |         | <b>Ensure the safe use of pesticides to protect South Carolina's public health, natural resources and environment.</b>   |                    |             |                   |                  |  |   |  |
| Maintaining Safety, Integrity and Security | M    |        |          | 4.1.1   | Pesticide Regulation: Structural and Ornamental. Compliance rate category 7 licensed pesticide applicator  | 89%                | 60%         | 91%               | July 1 - June 30 | Website:<br>clemsom/regulatory/dp<br>r | The structural compliance rate benchmark of 60% was exceeded. For the reporting period, the structural compliance rate was 91%.   | 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  | 3,672              | 2,800       | 3,690             | July 1 - June 30 | Website:<br>clemsom/regulatory/dp<br>r | The total number of Category 3 (Ornamental and Turf Pest Control) applicators possessing a valid license during the reporting period exceeded the benchmark of 2,800 applicators.           | Indicates the ability of applicators to meet requirements for safe application of pesticides to prevent harm to humans, plants, animals and the environment. |

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|--|------|--------|----------|---------|--|---------|--------|--------|------------------|-------------------------------------|---|--|
|  |      | Goal   | Strategy | Measure |  | Base    | Target | Actual |                  |                                     |   |  |
| 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 | Website: clemson/regulatory/dp<br>r | The Reduced Risk Specialist provided 18 trainings during the last fiscal year for school districts across the state in which 392 school district employees were trained including custodial employees, food service employees, and landscaping and ground employees. During the last fiscal year, applicators that contracted to perform pest control activities at schools in 10 Districts were inspected in the following numbers: Commercial Lawn Care Operators: 6 Non-Commercial Lawn Care Operators: 12, Commercial Pest Control Operators: 13, Non-Commercial PCOs: 2. | 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. |
| Maintaining Safety, Integrity and Security | S    |        |          | 4.2     | <b>Protect South Carolina's structures from termites and other structural pests by ensuring high standards are met for the pest.</b>   |         |        |        |                  |                                     |   |  |
| Maintaining Safety, Integrity and Security | M    |        |          | 4.2.1   | The number of compliance, complaint 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 | 2,247   | 2,000  | 2,362  | July 1 - June 30 | Website: clemson/regulatory/dp<br>r | Total Inspections conducted during the period exceeded the benchmark of 2,000 inspections. The total number of inspections (compliance, complaint, dealer, structural pest, marketplace, agricultural use, groundwater, lawn care, worker protection, record check, producer establishment, structural pre-treat, non-ag use) for the reporting period is 2,362.  | Ensures compliance to protect humans, plants, animals and the environment.   |

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|  |      | Goal   | Strategy | Measure |   | Base    | Target | Actual |                  |  |  |  |
| Maintaining Safety, Integrity and Security | M    |        |          | 4.2.2   | The percentage of repeat violators (structural compliance)  | 14%     | ≤20%   | 10%    | July 1 - June 30 | Website:<br>clemsun/regulatory/dp<br>r | The percentage of structural pesticide applicators who were repeat violators during the reporting period was 9.67%, therefore significantly less than the repeat violator benchmark of 20%.  | Provides a method for measuring compliance for protection of humans, plants, animals and the environment.  |
| Maintaining Safety, Integrity and Security | S    |        |          | 4.3     | <b>Ensure that the fertilizer, lime, landplaster and soil amendments sold in South Carolina will be of high quality and properly labeled.</b>   |         |        |        |                  |  |  |  |
| 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   | 12%     | ≤20%   | 6%     | July 1 - June 30 | Annual Fertilizer Report               | Of 2,224 fertilizer samples collected, 95 were found to be deficient for an overall deficiency rate of 6.24%, well below the target of 20%. Fertilizer tonnage was reported at 593,048 tons an increase of 181,930 tons from 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. |
| Maintaining Safety, Integrity and Security | 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 mitigating impact from plant pests, i.e., plant diseases, inspections etc. | 95%     | 100%   | 100%   | July 1 - June 30 | Website:<br>clemsun/regulatory/dpi     | 630 Nursery growers. 630 of 630 nurseries were inspected (100%). 395 of 1,972 nursery dealers were inspected. (105%). Goal was to inspect 353 Nursery Dealers between January 2017 and December 2017. All were in compliance or brought into compliance after inspection. The nurseries that were not inspected were hobbyists rather than commercial nurseries. | Ensures that established standards are being followed.   |

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|  |      | Goal   | Strategy | Measure |   | Base    | Target | Actual |                  |                                    |  |  |
| Maintaining Safety, Integrity and Security | M    |        |          | 4.4.2   | Acceptance rate of phytosanitary certificates issued  | 95%     | 100%   | 100%   | July 1 - June 30 | Website:<br>clemsun/regulatory/dpi | DPI issued 1,270 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      | 8      | July 1 - June 30 | Website:<br>clemsun/regulatory/dpi | Invasive species surveys in 2017-18: (No regulated pests were detected for the following) Wood Boring Bark Beetle- survey for 5 pest; Nursery- survey for 10 pest; Forest Pests - survey for 8 pests; Palm survey - survey for 3 pests; AgPathway Survey - survey for 5 pests. Honey Bee- 94 Noxious weeds: BDF- 5 counties monitored, all property owners are under compliance agreement. Plum Pox Virus - survey of 8,907 trees - no detection. Cyst Nematode Survey – survey for 7 pests - no detections. Itchgrass- no new detections, two sites monitored. Cogongrass- no new detections, 13 sites treated and monitored. Japanese dodder- no new detection, 1 site treated. Water Spinach- no new detection, 1 site monitored. Fig Buttercup - 2 | Provides a means to mitigate disasters due to invasive species and to prevent harm to humans, plants, animals and the environment. |
| Maintaining Safety, Integrity and Security | 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 | 99.50%  | 99.30% | 97.00% | July 1 - June 30 | Website:<br>clemsun/regulatory/dpi | 97% compliance rate of the samples of certified seed lots were found with the SC Seed Certification Standards for purity.  | Ensures compliance with the SC Seed Certification Standards.   |
| Maintaining Safety, Integrity and Security | S    |        |          | 4.6     | <b>Correctly identify or diagnose plant pests and diseases and provide effective control recommendations in a timely manner.</b>  |         |        |        |                  |                                    |  |  |

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|  |      | Goal   | Strategy | Measure |   | Base    | Target | Actual |                  |                                    |   |  |
| 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 3,798 samples. This was broken down as follows: 953 disease or abiotic problems, 117 insects or mites, 120 weeds. The Molecular Plant Pathogen Detection Laboratory processed 131 samples. The Commercial Turf Clinic processed 104 samples. 2,355 nematode samples. The water lab 18.   | Ensures compliance to protect humans, plants, animals and the environment.   |
| Maintaining Safety, Integrity and Security | 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                     | Our personnel oversaw the reprogramming of three Palmetto 800 emergency response radios for Divisional emergency use. Members of the Division's emergency response team participated in state emergency response training and in the State Emergency Exercise in 2017. The team prepared for the State Emergency Operations Center's activation during the hurricane in September 2017, trained on the new software used by SC Emergency Management Division, and updated Clemson's Emergency Support Function annex manual. We are currently involved in updating Clemson's standard operation procedures used during emergency response and deployment. | Provides a means to mitigate disasters due to invasive species and to prevent harm to humans, plants, animals and the environment. |
| Maintaining Safety, Integrity and Security | S    |        |          | 4.8     | <b>Enforce that established standards will be met for the production of certified organic products.</b>   |         |        |        |                  |                                    |   |  |

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|--|------|--------|----------|---------|--|---------|--------|--------|------------------|--|--|--|
|  |      | Goal   | Strategy | Measure |  | Base    | Target | Actual |                  |  |  |  |
| 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   | 95.00%  | 99.30% | 99.50% | July 1 - June 30 | Website:<br>clemsun/regulatory/dpi       | There are 65 certified operations plus 6 new operations in progress.   | Provides method to ensure that established standards will be met for the production of certified organic products. |
| Maintaining Safety, Integrity and Security | 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%   | 100%   | July 1 - June 30 | Agriculture Service Lab<br>Annual Report | Soil: 54,296; Compost: 85; Animal Waste: 1,496; Irrigation Water: 837; Plant Tissue: 1,408; Feed and Forage: 1,003; other samples (research and commercial customers): 7,468 | 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%    | 100%   | 100%   | July 1 - June 30 | Website:<br>clemsun/regulatory/dpi       | DPI conducted 94 apiary inspections for disease, pest and export certification throughout SC.  | Ensures compliance to protect humans, plants, animals and the environment.   |

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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 |                  |  |  |   |
| Education, Training, and Human Development | 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.                            |           |           |        |                  |  |  |   |
| Education, Training, and Human Development | 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 submitted proposals and funding requests to granting agencies and increase the number of funded grants  | 155       | 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    |        |          | 1.1.2   | The number of technical contributions related to research   | 78        | 75        |        | 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.    |
| Education, Training, and Human Development | S    |        | 1.2      |         | Strengthen extension programs at Research and Educational Centers (RECs) and on campus that contribute to the economic development of South Carolina.   |           |           |        |                  |  |  |   |
| Education, Training, and Human Development | M    |        |          | 1.2.1   | New educational programs developed  | 476       | 500       |        | July 1 - June 30 | CUMIS  | 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 | S    |        | 1.3      |         | Improve undergraduate and graduate education experiences offered at RECs.   |           |           |        |                  |  |  |   |
| Education, Training, and Human Development | M    |        |          | 1.3.1   | Number of of graduate students recruited and retained   | 326       | 250       |        | 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     |
| Education, Training, and Human Development | 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. |           |           |        |                  |  |  |   |
| Education, Training, and Human Development | S    |        | 2.1      |         | Develop and implement agricultural production systems that are economically sustainable and environmentally sound   |           |           |        |                  |  |  |   |
| Education, Training, and Human Development | M    |        |          | 2.1.1   | Percentage of producers implementing practices learned  | 58%       | 62%       |        | July 1- June 30  | Clemson University Management Information System (CUMIS) | Number of people implementing practices divided by number of people attending programs | Demonstrates the value of information presented in programs   |
| Education, Training, and Human Development | M    |        |          | 2.1.2   | Number of acres affected by integrated crop management (ICM) activities   | 162,225   | 95,000    |        | July 1- June 30  | CUMIS  | Number of acres reported   | A measure of direct impact on farms across SC that are more profitable and has less impact on the environment |
| Education, Training, and Human Development | S    |        | 2.2      |         | Promote healthy lifestyles and nutrition choices for the citizens of South Carolina   |           |           |        |                  |  |  |   |
| Healthy and Safe Families                  | M    |        |          | 2.2.1   | Number of people provided health and nutrition information through various media outlets  | 3,589,180 | 3,490,492 |        | July 1- June 30  | CUMIS  | Forecast data using prediction from linear regression model                            | Indicates the amount of educational effort that can potentially improve health and maintain healthy lifestyle |

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|  |      | Goal   | Strategy | Measure |  | Base    | Target | Actual |                 |  |  |   |
| Healthy and Safe Families                  | M    |        |          | 2.2.2   | Percentage of people adopting a nutrition practice   | 47%     | 45%    |        | July 1- June 30 | CUMIS                                  | Number of people adopting a nutrition practice divided by number of people attending programs    | Measures the benefit that health and nutrition information can make in the lives of citizens  |
| Education, Training, and Human Development | S    |        | 2.3      |         | <b>Improve food quality and safety for citizens of South Carolina</b>  |         |        |        |                 |  |  |   |
| Education, Training, and Human Development | M    |        |          | 2.3.1   | Percentage of participants passing food regulation and safety exam (ServSafe)  | 73%     | 70%    |        | July 1- June 30 | Food safety training exams             | Number of participants passing the exam divided by the number of people taking the exam          | Provides a measure of ability of participant to understand and apply DHEC regulations and requirements  |
| Education, Training, and Human Development | M    |        |          | 2.3.2   | Percentage of participants gaining knowledge of food safety and food systems   | 98%     | 95%    |        | July 1- June 30 | CUMIS                                  | Number of participants gaining knowledge divided by number of participants in programs.          | Indicates the number of people in SC that will have a better understanding of food safety, serving and preservation techniques to reduce food waste |
| Education, Training, and Human Development | S    |        | 2.4      |         | <b>Provide information and training on efficient animal production systems and reduction of impact on natural resources</b>  |         |        |        |                 |  |  |   |
| Education, Training, and Human Development | M    |        |          | 2.4.1   | Number of collaborations with advisory committees, boards or associations  | 95      | 65     |        | July 1- June 30 | CUMIS                                  | Number of collaborations reported  | Demonstrates collaboration with other entities to reach existing, diverse and new audiences   |
| Education, Training, and Human Development | M    |        |          | 2.4.2   | Percent of producers implementing recommended breeding, grazing management systems and/or establishing improved forage cultivars   | 31%     | 5%     |        | July 1- June 30 | CUMIS                                  | Reported number of producers implementing practices divided by number of participants            | Establishes efficacy of techniques being taught to producers  |
| Education, Training, and Human Development | S    |        | 2.5      |         | <b>Conserve and protect all natural resources throughout South Carolina through education and implementation of best management practices</b>                                    |         |        |        |                 |  |  |   |
| Education, Training, and Human Development | M    |        |          | 2.5.1   | Percent of landowners, homeowners, land managers, biologists, engineers, water resources managers and private citizens utilizing practices taught during programs and workshops. | 54%     | 50%    |        | July 1- June 30 | CUMIS                                  | Number 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    |        |          | 2.5.2   | Number of acres owned/managed potentially impacted by forestry and wildlife workshops and programs and acres impacted by Master Naturalist programs                              | 151,314 | New    |        | July 1- June 30 | CUMIS and Master Naturalist Volunteers | Number 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.          |
| Education, Training, and Human Development | S    |        | 2.6      |         | <b>Provide relevant information for producers and consumers of horticultural products while minimizing the effects of pests and pesticide applications</b>                       |         |        |        |                 |  |  |   |
| Education, Training, and Human Development | M    |        |          | 2.6.1   | Number of acres affected by integrated crop management (ICM) activities  | 10,044  | 15,000 |        | July 1- June 30 | CUMIS                                  | Reported number of acres   | Highlights the impact of teaching ICM practices   |

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|  |      | Goal   | Strategy | Measure |  | Base    | Target               | Actual |                 |                              |   |  |
| Education, Training, and Human Development | M    |        |          | 2.6.2   | Number of reported adult volunteer hours contributed.  | 63,347  | 70,000               |        | July 1- June 30 | CUMIS                        | Number of hours reported by volunteers  | Suggests the positive impacts that volunteers and consumers have in communities to improve environment through sound horticultural practices |
| Education, Training, and Human Development | S    |        | 2.7      |         | <b>Recruit and prepare the future agricultural workforce and provide educational opportunities for the community to stay on the cutting edge of technology and business skills</b>   |         |                      |        |                 |                              |   |  |
| Education, Training, and Human Development | M    |        |          | 2.7.1   | Number of people participating in programs and workshops for the first time during the current fiscal year.  | 888     | 1,000                |        | July 1- June 30 | CUMIS                        | Number of reported first time participants  | Indicates the importance and value of recruiting non-traditional students and adults into agricultural fields                                |
| Education, Training, and Human Development | S    |        | 2.8      |         | <b>Development of management and risk assessment and other tools and techniques to assist large scale and small and limited resources farmers in remaining profitable</b>  |         |                      |        |                 |                              |   |  |
| Education, Training, and Human Development | M    |        |          | 2.8.1   | Percentage of people applying skills learned during programs and workshops.  | 73%     | 75%                  |        | July 1- June 30 | CUMIS                        | Number of people utilizing knowledge divided by number of people participating in programs                    | Assessment of the value of agribusiness programs to farmers of all scales in SC  |
| Education, Training, and Human Development | S    |        | 2.9      |         | <b>Empower youth to grow into healthy and productive members of society through hands-on, inclusive and mentored learning opportunities</b>  |         |                      |        |                 |                              |   |  |
| Education, Training, and Human Development | M    |        |          | 2.9.1   | Percentage of 4-H members engaged in science, engineering and technology activities. (ES-237)  | 99%     | 75%                  |        | Sept 1 - Aug 31 | ES-237                       | Number of 4-H participants in science, engineering and technology programs divided by total 4-H participation | Demonstrates the value of 4-H programs to youth in the areas of science, engineering and technology  |
| Education, Training, and Human Development | M    |        |          | 2.9.2   | Number of adult volunteer hours. (ES-237)  | 3,770   | Difficult to predict |        | Sept 1 - Aug 31 | ES-237                       | Reported in ES-237  | Indication of effective volunteer support system which is vital to the success of the 4-H youth development program.                         |
| Education, Training, and Human Development | M    |        |          | 2.9.3   | Percentage of 4-H members engaged in citizenship and community service programs. (ES-237)  | 22%     | 20%                  |        | Sept 1 - Aug 31 | ES-237                       | Number of 4-H participants in citizenship programs divided by total 4-H participation                         | The number of 4-Hers participating in community, leadership and citizenship projects conveys the reach of the 4-H program in SC              |
| Maintaining Safety, Integrity and Security | 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> |         |                      |        |                 |                              |   |  |

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|  |      | Goal   | Strategy | Measure |  | Base    | Target | Actual |                  |                              |  |  |
| Maintaining Safety, Integrity and Security | S    |        | 3.1      |         | 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. |         |        |        |                  |                              |  |  |
| Maintaining Safety, Integrity and Security | M    |        |          | 3.1.1   | Total number of new premises registered by Livestock Poultry Health  | 6,679   | 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  | 920     | 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 |
| Maintaining Safety, Integrity and Security | 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   |        | 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  | Measures critical to maintaining "at least equal to" status with the USDA Food Safety Inspection Service   |
| Maintaining Safety, Integrity and Security | 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%   |        | 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   |

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|  |      | Goal   | Strategy | Measure |  | Base            | Target      | Actual |                      |                                     |   |   |
| 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   | 105,754; 99.26% | 80,000; 90% |        | July 1 - June 30     | LPH reports                         | Total number of diagnostic procedures and percent of regulatory/production animal related diagnostics to  | Indication of the demand for services from sectors served by veterinary diagnostic laboratory   |
| Maintaining Safety, Integrity and Security | G    |        |          | 4.1     | <b>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.</b> |                 |             |        |                      |                                     |   |   |
| Maintaining Safety, Integrity and Security | S    |        |          |         | <b>Ensure the safe use of pesticides to protect South Carolina's public health, natural resources and environment.</b>   |                 |             |        |                      |                                     |   |   |
| Maintaining Safety, Integrity and Security | M    |        |          | 4.1.1   | Pesticide Regulation: Structural and Ornamental. Compliance rate category 7 licensed pesticide applicator  | 91%             | 60%         |        | July 1 - June 30     | Website: clemson/regulatory/dp<br>r | The structural compliance rate benchmark of 60% was exceeded. For the reporting period, the structural compliance rate was 91%.   | 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       |        | July 1 - June 30     | Website: clemson/regulatory/dp<br>r | The total number of Category 3 (Ornamental and Turf Pest Control) applicators possessing a valid license during the reporting period exceeded the benchmark of 2,800 applicators. | Indicates the ability of applicators to meet requirements for safe application of pesticides to prevent harm to humans, plants, animals and the environment |

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|  |      | Goal   | Strategy | Measure |   | Base    | Target | Actual |                  |                                     |   |   |
| 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 | Website: clemson/regulatory/dp<br>r | The Reduced Risk Specialist provided 18 trainings during the last fiscal year for school districts across the state in which 392 school district employees were trained including custodial employees, food service employees, and landscaping and ground employees. During the last fiscal year, applicators that contracted to perform pest control activities at schools in 10 Districts were inspected in the following numbers: Commercial Lawn Care Operators: 6 Non-Commercial Lawn Care Operators: 12, Commercial Pest Control Operators: 13, Non-Commercial PCOs: 2. | 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 |
| Maintaining Safety, Integrity and Security | S    |        | 4.2      |         | <b>Protect South Carolina's structures from termites and other structural pests by ensuring high standards are met for the pest.</b>  |         |        |        |                  |                                     |   |   |
| 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  |        | July 1 - June 30 | Website: clemson/regulatory/dp<br>r | Total inspections conducted during the period exceeded the benchmark of 2,000 inspections. The total number of inspections (compliance, complaint, dealer, structural pest, marketplace, agricultural use, groundwater, lawn care, worker protection, record check, producer establishment, structural pre-treat, non-ag use) for the reporting period is 2,362.  | Ensures compliance to protect humans, plants, animals and the environment   |

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|  |      | Goal   | Strategy | Measure |   | Base    | Target | Actual |                  |                                 |  |   |
| Maintaining Safety, Integrity and Security | M    |        |          | 4.2.2   | The percentage of repeat violators (structural compliance)  | 10%     | ≤20%   |        | July 1 - June 30 | Website: clemson/regulatory/dpi | The percentage of structural pesticide applicators who were repeat violators during the reporting period was 9.67%, therefore significantly less than the repeat violator benchmark of 20%.  | Provides a method for measuring compliance for protection of humans, plants, animals and the environment  |
| Maintaining Safety, Integrity and Security | S    |        |          | 4.3     | <b>Ensure that the fertilizer, lime, landplaster and soil amendments sold in South Carolina will be of high quality and properly labeled.</b>   |         |        |        |                  |                                 |  |   |
| 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%   |        | July 1 - June 30 | Annual Fertilizer Report        | Of 2,224 fertilizer samples collected, 95 were found to be deficient for an overall deficiency rate of 6.24%, well below the target of 20%. Fertilizer tonnage was reported at 593,048 tons an increase of 181,930 tons from 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 |
| Maintaining Safety, Integrity and Security | 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 mitigating impact from plant pests, i.e., plant diseases, inspections etc. | 100%    | 100%   |        | July 1 - June 30 | Website: clemson/regulatory/dpi | 630 Nursery growers. 630 of 630 nurseries were inspected (100%). 395 of 1,972 nursery dealers were inspected. (105%). Goal was to inspect 353 Nursery Dealers between January 2017 and December 2017. All were in compliance or brought into compliance after inspection. The nurseries that were not inspected were hobbyists rather than commercial nurseries. | 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 | Website: clemson/regulatory/dpi | DPI issued 1,270 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  |

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|  |      | Goal   | Strategy | Measure |   | Base    | Target | Actual |                  |                                 |  |   |
| 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      |        | July 1 - June 30 | Website: clemson/regulatory/dpi | Invasive species surveys in 2017-18: : Wood Boring Bark Beetle- survey for 5 pests, no regulated pests detected. Nursery- survey for 10 pests, no regulated pests detected. Plum Pox Virus - survey of 8,907 trees - no detection. Forest Pests - survey for 8 pests, no regulated pests detected. Cyst Nematode Survey – survey for 7 pests - no detections. Palm survey - survey for 3 pests, no regulated pests detected. AgPathway Survey - survey for 5 pests, no regulated pests detected. Honey Bee- 94 Noxious weeds: BDF- 5 counties monitored, all property owners are under compliance agreement. Itchgrass- no new detections, two sites monitored. Cogongrass- no new detections, 13 sites treated and monitored. | Provides a means to mitigate disasters due to invasive species and to prevent harm to humans, plants, animals and the environment |
| Maintaining Safety, Integrity and Security | 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 | 97.00%  | 99.30% |        | July 1 - June 30 | Website: clemson/regulatory/dpi | 97% compliance rate of the samples of certified seed lots were found with the SC Seed Certification Standards for purity   | Ensures compliance with the SC Seed Certification Standards.  |
| Maintaining Safety, Integrity and Security | S    |        |          | 4.6     | <b>Correctly identify or diagnose plant pests and diseases and provide effective control recommendations in a timely manner.</b>  |         |        |        |                  |                                 |  |   |

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|  |      | Goal   | Strategy | Measure |   | Base    | Target | Actual |                  |                                    |  |   |
| 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 3,798 samples. This was broken down as follows: 953 disease or abiotic problems, 117 insects or mites, 120 weeds. The Molecular Plant Pathogen Detection Laboratory processed 131 samples. The Commerical Turf Clinic processed 104 samples. 2,355 nematode samples. The water lab 18.  | Ensures compliance to protect humans, plants, animals and the environment   |
| Maintaining Safety, Integrity and Security | 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                     | We oversaw the reprogramming of three Palmetto 800 emergency response radios for Divisional emergency use. Members of the Division's emergency response team participated in state emergency response training and in the State Emergency Exercise in 2017. The team prepared for the State Emergency Operations Center's activation during the hurricane in 2017, trained on the new software used by SC EM Division, and updated Clemson's Emergency Support Function annex manual. We are currently involved in updating Clemson's standard operation procedures used during emergency response and deployment. | Provides a means to mitigate disasters due to invasive species and to prevent harm to humans, plants, animals and the environment |
| Maintaining Safety, Integrity and Security | S    |        | 4.8      |         | <b>Enforce that established standards will be met for the production of certified organic products.</b>   |         |        |        |                  |                                    |  |   |

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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 |                  |  |  |   |
| 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.  | 99.50%  | 99.30% |        | July 1 - June 30 | Website:<br>clemson/regulatory/dpi       | There are 65 certified operations plus 6 new operations in progress.   | Provides method to ensure that established standards will be met for the production of certified organic products |
| Maintaining Safety, Integrity and Security | 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<br>Annual Report | Soil: 54,296; Compost: 85; Animal Waste: 1,496; Irrigation Water: 837; Plant Tissue: 1,408; Feed and Forage: 1,003; other samples (research and commercial customers): 7,468 | 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%    | 100%   |        | July 1 - June 30 | Website:<br>clemson/regulatory/dpi       | DPI conducted 94 apiary inspections for disease, pest and export certification throughout SC.  | Ensures compliance to protect humans, plants, animals and the environment   |

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Program Template

| Program/Title                            | Purpose  | FY 2017-18 Expenditures (Actual) |              |            |              | FY 2018-19 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. | \$ 760,937                       | \$ 4,695,988 |            | \$ 5,456,925 | \$ 760,937                          | \$ 4,957,008 |              | \$ 5,717,945 | 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. |                                  |              | \$ 972,934 | \$ 972,934   |                                     |              | \$ 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.   | \$ 3,990,431                     | \$ 157,058   |            | \$ 4,147,489 | \$ 3,990,431                        | \$ 1,160,852 |              | \$ 5,151,283 | All Goal 3 Objectives |

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Program Template

| Program/Title                               | Purpose  | FY 2017-18 Expenditures (Actual) |              |              |               | FY 2018-19 Expenditures (Projected) |               |              |               | Associated Measure(s) |
|---|--|----------------------------------|--------------|--------------|---------------|-------------------------------------|---------------|--------------|---------------|-----------------------|
|   |  | General                          | Other        | Federal      | TOTAL         | General                             | Other         | Federal      | TOTAL         |                       |
| II.B. Livestock-Poultry Health - Restricted | The role of the Clemson Livestock Poultry Health (LPH) is to protect animal health through control of endemic, foreign, and emerging diseases in livestock and poultry and to protect the health of S. C. consumers by providing a comprehensive inspection service to ensure that meat and poultry products are safe, wholesome and accurately labeled. |                                  |              | \$ 2,449,816 | \$ 2,449,816  |                                     |               | \$ 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.   | \$ 16,845,050                    | \$ 3,027,474 | \$ 4,605,187 | \$ 24,477,711 | \$ 18,183,427                       | \$ 5,628,139  | \$ 5,750,000 | \$ 29,561,566 | 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.  | \$ 18,861,174                    | \$ 5,505,381 | \$ 6,602,463 | \$ 30,969,018 | \$ 20,022,797                       | \$ 11,649,569 | \$ 7,750,000 | \$ 39,422,366 | All Goal 2 Objectives |

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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      | 46-13-10 et seq   | State        | Statute     | Provides for Clemson to operate a pesticide program in South Carolina.   | Yes  | Yes  | Other service or product our agency must/may provide | Enforcement of State Regulations                                     |
| 3      | 46-21-610 et seq. | State        | Statute     | Provides for Clemson to operate a program of seed and plant certification to foster the production and distribution of pure varieties of seed and plants in South Carolina.  | Yes  | Yes  | Other service or product our agency must/may provide | Enforcement of State Regulations                                     |
| 4      | 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                                     |
| 5      | 46-7-10 et seq    | State        | Statute     | Provides for the Director of Plant Industries to oversee the regulation of plant pests and pesticides throughout the State.  | Yes  | Yes  | Other service or product our agency must/may provide | Enforcement of State Regulations                                     |
| 6      | 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                                     |
| 7      | 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                                     |
| 8      | 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                                     |
| 9      | 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                                     |
| 10     | 47-4-10 et seq    | State        | Statute     | Establishes the State Livestock Poultry Health Commission; delegates authority to State Veterinarian, establishes penalties for violations and further authority to promulgate regulations.  | Yes  | Yes  | Other service or product our agency must/may provide | State Animal Health Authority  |
| 11     | 47-11-10 thru 170 | State        | Statute     | Provides for the State veterinarian to oversee the permitting, inspection and operation of a public livestock market within the State.   | Yes  | Yes  | Other service or product our agency must/may provide | State Animal Health Authority  |
| 12     | 47-13-10 et seq.  | State        | Statute     | Provides for the State Veterinarian to carry out the day to day responsibilities of the Clemson BOT as it relates to the regulation of livestock and poultry health diseases. This includes the authority to establish quarantines, enact regulations focused on the control of certain livestock diseases, to prevent the sale of diseased livestock, to embargo livestock likely to pose a disease threat. | Yes  | Yes  | Other service or product our agency must/may provide | State Animal Health Authority  |
| 13     | 47-22-10 et seq.  | State        | Statute     | Provides that LPH Director shall permit, inspect and otherwise regulate rendering plants in South Carolina, as well as vehicles used to transport raw materials.   | Yes  | Yes  | Other service or product our agency must/may provide | State Animal Health Authority  |
| 14     | 47-17-10 et seq.  | State        | Statute     | Provides for the Director of LPH to oversee and establish a livestock meat inspection program, including the oversight and inspection of the slaughter and preparation of meat products for intrastate sale. Clemson is also authorized to carry out certain responsibilities under the Federal Meat Inspection Act if requested/agreed to by Federal Government.  | Yes  | Yes  | Other service or product our agency must/may provide | SC Meat Poultry Inspection   |
| 15     | 47-19-10 et seq.  | State        | Statute     | Provides for Clemson PSA to be the designated state agency for cooperating with the US Secretary of Agriculture under the Federal Poultry Products Inspection Act. This includes the inspection of live poultry, carcasses and poultry products, as well as inspection of facilities for sanitary conditions and practices.  | Yes  | Yes  | Other service or product our agency must/may provide | SC Meat Poultry Inspection   |

|    |  |       |         |   |     |     |  |   |
|----|--|-------|---------|---|-----|-----|--|---|
| 16 | 47-6-10 et seq.                          | State | Statute | Provides that the State Livestock Poultry Health Commission and State Veterinarian shall regulate the control and eradication of pseudo rabies in SC.   | Yes | Yes | Other service or product our agency must/may provide | State Animal Health Authority           |
| 17 | 46-7-10, and 46-7-100 et seq             | State | Statute | Clemson University shall have general powers and duties related to certain agricultural investigations, including the regulation and enforcement of livestock and poultry diseases, host statewide Extension meetings, etc.                         | Yes | Yes | Other service or product our agency must/may provide | State Animal Health Authority           |
| 18 | 46-7-30, and 46-7-50 and 46-7-80 thru 90 | State | Statute | Provides for Clemson University to operate at least two experimental stations across the State to conduct farm demonstrations and research. Furthermore, Clemson to receive appropriations from Congress for operation of said experiment stations. | Yes | Yes | Other service or product our agency must/may provide | Enforcement of State Regulations        |
| 19 | 46-7-60 thru 90                          | State | Statute | Provides for Clemson to receive funding from Congress, as well as grants, while carrying out research and cooperative extension work.   | Yes | Yes | Other service or product our agency must/may provide | Education to citizens of South Carolina |
| 20 | 47-7-10 et seq.                          | State | Statute | Clemson University shall have general powers and duties related to certain agricultural investigations, including the regulation and enforcement of livestock and poultry diseases.   | Yes | Yes | Other service or product our agency must/may provide | Enforcement of State Regulations        |

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Customer Template

| Divisions or Major Programs       | Description  | Service/Product Provided to Customers   | Customer Segments               | <i>Specify only for the following Segments: (1) Industry: Name; (2) Professional Organization: Name; (3) Public: Demographics.</i>   |
|-----------------------------------|--|---|---------------------------------|--|
| Livestock-Poultry Health Programs | Ensures the continued health of the livestock and poultry industry, ensure safe, wholesome, properly labeled meat and poultry products.            | Protects health and marketability of livestock and poultry and products in the state, inspects meat and poultry products in state inspected plants and protects public health in SC.  | Executive Branch/State Agencies |  |
| Livestock-Poultry Health Programs | Ensures the continued health of the livestock and poultry industry, ensure safe, wholesome, properly labeled meat and poultry products.            | Protects health and marketability of livestock and poultry and products in the state, inspects meat and poultry products in state inspected plants and protects public health in SC.  | General Public                  | All animal agriculture (Poultry, Beef, Dairy, Swine, Equine, Sheep, Goats, Meat slaughter and processing, Zoos, etc.) & veterinarians  |
| Clemson Experiment Station        | Conducts research to identify critical issues and find solutions through research that support South Carolina's agriculture and forest industries. | Scientists work to improve the quality of life for people in South Carolina, the nation, and the world by providing science-based information on major issues facing decision makers.   | General Public                  | Producers, Commercial and small farmers; academic institutions; researchers  |
| Cooperative Extension Service     | Improve the economy, environment, and well-being of South Carolinians through the delivery of unbiased research-based information and education.   | Agents meet the diverse needs of S. C. citizens by delivering research-based information on Agrisystems Productivity and Profitability, Environmental and Natural Resource Conservation, Food Safety and Nutrition, Agribusiness, and 4-H Youth Development.  | General Public                  | Youth ages 5-19 --- 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 |
| Dept. of Pesticide Regulation     | Regulatory and Public Service Agency with Clemson University   | The Department of Pesticide Regulation works to protect health, property, and our environment by promoting the safe and proper use of pesticides. Our programs include applicator licensing and education, pesticide container recycling, integrated pest management in schools, endangered species protection, and the worker protection program. Pesticide Regulation is the enforcement and investigative authority in South Carolina for pesticide use, alleged pesticide misuse, substandard termite treatments, and the South Carolina Wood Infestation Report. | General Public                  | All pesticide users  |

|  |  |   |                |  |
|--|--|---|----------------|--|
| Dept. of Plant Industry - Seed Program       | Regulatory and Public Service Agency with Clemson University | The Department of Plant Industry's Seed Program works to serve the farmers who grow certified seed crops. The service is to provide inspections/approvals/ disapprovals by AOSCA standards for crop to be certified in the program. | General Public | Growers  |
| Dept. of Plant Industry - Fertilizer Program | Regulatory and Public Service Agency with Clemson University | The Department of Plant Industry's Fertilizer Program aims to control quality and guarantees of all fertilizer, lime, landplaster sold in South Carolina.   | General Public | All farmers or purchasers of fertilizer in South Carolina  |
| Dept. of Plant Industry - Fertilizer Program | Regulatory and Public Service Agency with Clemson University | The Department of Plant Industry's Fertilizer Program works to serve the industry for all fertilizers/lime/ and landplaster manufacturers and dealers in South Carolina by AAPFCO recognized guidelines.                            | Industry       | Fertilizer Industry  |
| Agricultural Service Lab                     | Regulatory and Public Service Agency with Clemson University | To provide information and analytical testing 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 |

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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 |
| 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         | Partner 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 |
| 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 |

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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         | Annual Report of Accomplishments  | National Institute of Food and Agriculture  | Federal              | Annually            | 4/1/2018   | Annual report of Accomplishments  | <a href="https://reis.usda.gov/areera/search?state=SC&amp;year=2017&amp;doctype%5B%5D=REPORT&amp;doctype%5B%5D=PLAN">https://reis.usda.gov/areera/search?state=SC&amp;year=2017&amp;doctype%5B%5D=REPORT&amp;doctype%5B%5D=PLAN</a>             |
| 2    | External Review and Report         | Annual Plan of Work   | National Institute of Food and Agriculture  | Federal              | Annually            | 4/1/2018   | Annual plan of work   | <a href="https://pow.nifa.usda.gov/launchReport.htm?id=875&amp;format=P&amp;type=annualReport">https://pow.nifa.usda.gov/launchReport.htm?id=875&amp;format=P&amp;type=annualReport</a>   |
| 3    | Report                             | Project Financial Report  | National Institute of Food and Agriculture  | Federal              | Annually            | 2/1/2018   | Annual Financial Report   | <a href="https://portal.nifa.usda.gov/portal/front/home">https://portal.nifa.usda.gov/portal/front/home</a>   |
| 4    | Report                             | McIntire-Stennis Program of Research  | National Institute of Food and Agriculture  | Federal              | Annually            | 7/25/2018  | Annual McIntire-Stennis Project Reporting   | <a href="https://portal.nifa.usda.gov/portal/front/home">https://portal.nifa.usda.gov/portal/front/home</a>   |
| 5    | Report                             | Animal Health Program of Research   | National Institute of Food and Agriculture  | Federal              | Annually            | 8/16/2018  | Annual Animal Health Project Reporting  | <a href="https://portal.nifa.usda.gov/portal/front/home">https://portal.nifa.usda.gov/portal/front/home</a>   |
| 6    | Report                             | Animal Health Capacity Worksheet  | National Institute of Food and Agriculture  | Federal              | Annually            | 1/31/2018  | Annual Animal Health Financial Reporting  | Report Submitted via Email  |
| 7    | Report                             | Mid-Year Report   | EPA   | Federal              | Annually            | 7/31/2018  | Excel template with 5700 Main, 5700 WPS , and 5700 CC (container/containment), 5700 Page 2; Quarterly Reports for: Groundwater, WPS, Recertification, Producer Establishments, IPM, and Pesticide Container Recycling.  | Excel Spreadsheet   |
| 8    | Report                             | Federal Year-End Report   | EPA   | Federal              | Annually            | 10/31/2017   | Excel template with 5700 Main, 5700 WPS , and 5700 CC(container/containment) 5700 Page 2  | Excel Spreadsheet   |
| 9    | Report                             | Year-End Report   | EPA   | Federal              | Annually            | 1/31/2018  | Excel template with 5700 Main, 5700 WPS , 5700 CC(container/containment), and Outcomes for the Work Plan approved by EPA 5700 Page 2; Quarterly Reports for: Groundwater, WPS, Recertification, Producer Establishments, IPM, and Pesticide Container Recycling.                    | Excel Spreadsheet   |
| 10   | Report                             | Annual Report   | AOSCA   | Outside Organization | Annually            | 1/1/2018   | Annual summary of the seed certification program. AOSCA sets the national standards for seed certification.   | Published on AOSCA website  |
| 11   | Report                             | Annual Report   | AAPFCO  | Outside Organization | Annually            | 1/1/2018   | Annual summary of the fertilizer tonnage program. AAPFCO sets the national standards for fertilizer.  | Published on AAPFCO website (Administration portal)   |
| 12   | External Review and Report         | Comprehensive Review and Determination Report - Fiscal Year 2017 - South Carolina | Federal-State Audit Branch, Food Safety and Inspection Service, United States Department of Agriculture | Federal              | Annually            | December 2017 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/informational/aboutfsis/structure-and-organization/oiea/oiea-mcad/mcad-fsab">https://www.fsis.usda.gov/wps/portal/informational/aboutfsis/structure-and-organization/oiea/oiea-mcad/mcad-fsab</a> |
| 13   | 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.pjlab.com/search-accredited-labs">http://www.pjlab.com/search-accredited-labs</a>   |