

ANDERSON & PICKENS COUNTIES stormwater PARTNERS



Annual Report of Activities

YEAR 7 / JANUARY - DECEMBER 2020

FEBRUARY 2021



COOPERATIVE EXTENSION
College of Agriculture, Forestry and Life Sciences

Acronyms Used In This Report

ACRONYM	FULL WORDING	ACRONYM	FULL WORDING
APCSP	Anderson & Pickens Counties Stormwater Partners	LSP	Lowcountry Stormwater Partners
ARJWS	Anderson Regional Joint Water System	MCMs	Minimum Control Measures
ASWCD	Anderson County Soil and Water Conservation District	MEP	Maximum Extent Practicable
BMPs	Best Management Practices	NPDES	National Pollutant Discharge Elimination System
CAFLS	Clemson University College of Agriculture, Forestry, and Life Sciences	PC	Pickens County
CEPSCI	Certified Erosion Prevention and Sediment Control Inspector	PCBEAC	Pickens County Beautification and Environmental Advisory Committee
CSPR	Cetified Stormwater Plan Reviewer	POC	Pollutants of Concern
CU	Clemson University	PSWCD	Pickens County Soil and Water Conservation District
CY	Clemson Extension Carolina Yards	SC	South Carolina
EFNEP	Expanded Food and Nutrition Education Program	SC AAS	South Carolina Adopt-a-Stream
FDSC	Florence Darlington Stormwater Consortium	SCASM	South Carolina Association of Stormwater Managers
FOG	Fats, Oils and Grease	SCBG	South Carolina Botanical Gardens
FOLKS	Friends of Lake Keowee Society	SCDHEC	South Carolina Department of Health and Environmental Control
GSSC	Girl Scouts of South Carolina	SC ETV	South Carolina Education Television
HGIC	Clemson Cooperative Extension Home and Garden Information Center	SDPC	School District Pickens County
HOAs	Home Owners Associations	SMS4s	Small Municipal Separate Storm Sewer Systems
IECA	International Erosion Control Association	TMDLs	Total Maximum Daily Loads
LHPCW	Lake Hartwell Partners for Clean Water	TTB	Traveling Trash Bash
LID	Low Impact Development	UPIC	University Professional Internship and Co-op Program
LKSWPT	Lake Keowee Source Water Protection Team	WOW Jr.	What's In Our Waters Jr.

Executive Summary

The Anderson and Pickens Counties Stormwater Partner's Year Seven Annual Report of Activities summarizes education, involvement, and participation programming offered by the Anderson & Pickens Counties Stormwater Partners (APCSP) community and education partners in 2020. APCSP implements a region-wide outreach strategy to educate residents on water quantity, quality, and the cumulative impacts of stormwater. As a public service of Clemson University, APCSP continued to serve South Carolina while observing COVID-19 precautions for employees and the public. County agents and staff remained available to assist clients through telephone, email, and virtual platforms when we could not host large in-person gatherings. In some cases, we served individuals and small group needs for on-site outdoor field visits (such as sampling) under strict adherence to established protocols; and access to lab services (such as soil and irrigation water sampling) was arranged locally.

Programming is guided by our strategic education plan, a living document that identifies target pollutants of concern (POC), outreach strategies, and short to long-term goals. A plan was created in 2014 using the 303(d) List of Impaired Waterbodies, Total Maximum Daily Loads (TMDLs), workshop and event surveys, and feedback from citizens and stormwater professionals in the region. Using this input, we identified our POCs as bacteria from animal waste; sediment and erosion; and fats, oils, and grease (FOG). Litter was added as a target pollutant in 2015. Our plan was updated in 2018 with input from partners at a strategic planning meeting on June 18. This updated plan describes our top three pollutants of concern (sediment, litter, and bacteria), behaviors that contribute to the pollutant load of waterways, and actions APCSP will take to educate and engage our target audiences to ultimately reduce non-point source pollution from stormwater runoff. The education plan and associated timeline can be found in the Appendix.

During 2020, APCSP was heavily involved in converting existing programs to a virtual format, updating our online presence, and developing and delivering on-line content through social media posts, fact sheets, blogs, e-news, videos, webinars, and virtual workshops. Topics covered included South Carolina Adopt-a-Stream (SC AAS), septic systems, pet waste, FOG, reducing waste, preventing stormwater pollution, and stormwater ponds. Additionally, APCSP staff played a major role in the management and delivery of some compliance-based courses offered in partnership with Clemson Extension.

In 2021, our eighth year of strategic plan implementation, APCSP will continue to expand programming for sediment, litter, and bacteria. Projects include offering a series of trainings, workshops, and webinars on erosion and sediment control, and pond management; septic system, pet waste, and FOG outreach; litter education and cleanups; and continued involvement with the community: educators/youth, residential communities, and professional/technical audiences.



Steven O'Shields
Anderson County



Haley Parent
Clemson University



Susan Lunt
Pickens County

Steven O'Shields, Haley Parent, and Susan Lunt are Water Resources Agents for the Clemson Cooperative Extension Service. As part of their work with the Carolina Clear program, they co-coordinate the Anderson & Pickens Counties Stormwater Partners.

2020 Highlights

- The COVID-19 pandemic provided APCSP the opportunity to explore new methods to reach the citizens of South Carolina. We readily turned our focus to virtual programming and began delivering synchronous and asynchronous online trainings, new and updated webpages, educational videos, information via social media, and webinars. Examples include: Certified Erosion Prevention and Sediment Control Inspector (CEPSCI) and SC AAS online trainings, revamped APCSP webpage, a new Be Septic Safe webpage, Traveling Trash Bash (TTB) educational videos, Water Olympics social media competition, and the numerous webinars.
- New and old stormwater education programs continue to gain momentum and our partnerships are thriving in Anderson and Pickens Counties. APCSP gave numerous presentations on multiple topics including stormwater, erosion, stormwater best management practices (BMPs), rain barrels, rainwater harvesting, water quality, watersheds, aquatic weeds, ponds, environmental stewardship, and the SC AAS program. Audiences reached included 4th Graders at Central and Townville Elementary; 3rd Graders for all of Pickens County, Girl Scouts of South Carolina (GSSC), 4-H participants, 5th graders at Six Mile Elementary, 3rd graders at Whitehall Elementary, ClemsonLIFE students, Master Gardeners, residents with ponds, professionals working with stormwater BMPs, Home Owner’s Associations (HOAs), followers of Pickens County Library Facebook page, Mile Creek Park, Clemson University staff and students, and Little John Community Center members.
- During COVID-19, our mass media campaign and demonstration sites throughout the region were still able to be observed by individuals. Citizens gained knowledge about FOG through the mass media campaign, and about rain gardens, bio-retention cells, floating wetlands, rain barrels, storm drain art and markers, and shoreline plantings through the demonstration sites. Both encourage best management practices for protecting water quality.

OUTREACH ACTIVITIES AND TOTAL NUMBER REACHED (*estimated*)

1. Internet Resources including social media pages, youtube, videos, and websites.
NUMBER REACHED: 299,648
2. Mass Media Campaign including television and billboards.
NUMBER REACHED: 491,551
3. Permanent Demonstration sites across the regions demonstrating diverse best management practices for protecting water quality.
NUMBER REACHED: 861
4. Education & Outreach Materials including publications, brochures, pamphlets, and giveaways.
NUMBER REACHED: 47,207
5. Diverse array of public workshops, presentations, trainings, and direct contacts pertaining to stormwater.
NUMBER REACHED: 4,849
6. Public Involvement opportunities including water quality monitoring, community partner meetings, Carolina Yards certifications, and rain barrel sales.
NUMBER REACHED: 1,009

2020: A Year in Pictures



Providing on-site technical assistance to public.



Providing rain barrels through public sale event.



Educating youth at Pickens Traveling Trash Bash.



Educating pond owners and managers in the field.

Table of Contents

Executive Summary	1
Community Partners	1
Education Partners	2
Mission and Goals	3
Program History	4
Highlight: South Carolina Adopt-a-Stream	5
Highlight: Be Septic Safe Program	6
Highlight: Pet Waste	7
Highlight: Fats, Oils, and Grease (FOG) Media Campaign	8
Highlight: Water Olympics Social Media Competition	9
Highlight: Webinars	10
Report Format	11
Public Education: Indirect	12
Public Education: Direct	19
Public Involvement	23
Outreach Summary	26
Appendix	28



Clemson Extension staff investigating a rain garden in Pickens County to determine maintenance needs.

The Small Municipal Separate Storm Sewer Systems (SMS4s) community partners in Anderson and Pickens Counties are dedicated to providing stormwater education. The partners work together to better facilitate the development of a unified approach to stormwater education and outreach throughout our region.

Local SMS4 Consortium Representatives: 2020

SMS4	Partner Representative
Anderson County	Jon Batson
City of Anderson	Adam Cromer
City of Belton	Bo Barnes
City of Clemson	Nathan Hinkle and Ethan Barnette
City of Easley	Eric Greenwood
City of Liberty	Bruce Evilsizor
City of Pickens	Philip Trotter
Clemson University	Billy Bolger
Pickens County	Scottie Ferguson
Town of Norris	Mayor Odell Williams





The education partners include agencies, organizations, and individuals that share an interest in educating the public about stormwater and water quality. These educational partnerships ensure a uniform and consistent message while leveraging valuable resources, organizational strengths, and collaborations. APCSP is grateful to all of the partners and to the citizens of Anderson and Pickens Counties who are helping to keep our waterways clean and beautiful.

2020 Education Partners



Program History



To meet the APCSP program goals, education and programming priorities were identified and highlighted through the APCSP Education Plan 2018-2023. The Education Plan was created with input from partners at a strategic planning meeting on June 18, 2018 at the Department of Natural Resources facility in Clemson, SC. Partners included city and county staff and a council member, representatives from non-profits, Clemson University staff and students, and Clemson Extension agents. Input included prioritizing pollutants of concern, developing a list of contributing behaviors, and brainstorming barriers and benefits for each behavior.

As identified in the Education Plan, the top three pollutants of concern (POCs) and their contributing behaviors are as follows:

Pollutant of Concern	Contributing Behaviors
Sediment	<ul style="list-style-type: none"> • Construction companies who do not properly install and maintain BMPs for erosion prevention and sediment control are contributing sediment to the local waterways. • Homeowners with sediment issues who do not properly install and maintain BMPs are contributing sediment to local waterways.
Litter	<ul style="list-style-type: none"> • People who contribute to roadside littering or improperly dispose of household items. • People who dump their trash illegally in business dumpsters, causing them to overflow.
Bacteria	<ul style="list-style-type: none"> • Septic systems that are not properly maintained/repared. • FOG (fats, oils, and grease) that are not disposed of properly. • Dog owners who don't pick up and dispose of their pet waste.

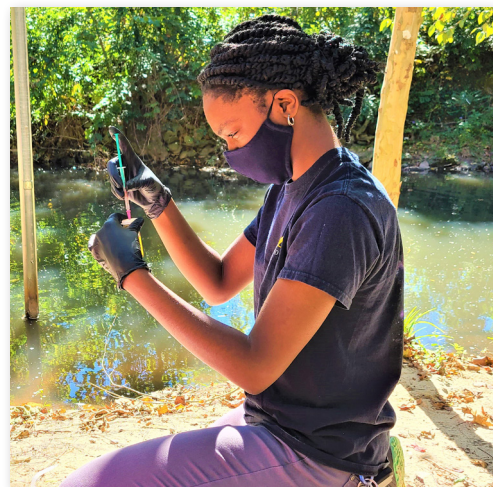
The Education Plan addresses these priority issues and serves as the guiding force for efforts of the Anderson & Pickens Counties Stormwater Partners. The complete Education Plan and timeline can be found in the Appendix and online at: www.clemson.edu/extension/carolinaclear/regional-consortiums/apcsp.

South Carolina Adopt-a-Stream

South Carolina Adopt-a-Stream (SC AAS) is a program developed and coordinated in partnership between the South Carolina Department of Health and Environmental Control (SC DHEC) and Clemson University's Center for Watershed Excellence. Certified volunteers collect water quality data on chemical, bacterial, and biological parameters and assess stream habitat conditions.

Anderson and Pickens Counties are two of the most active counties in South Carolina using SC AAS. Since the start of the program in July 2017, there have been 825 volunteer hours spent collecting and recording water quality data, 5,217 miles driven to sample locations, and 521 monitoring events across 69 sites in the Anderson/Pickens area alone! Volunteers enter their data into a state-wide database that helps establish a baseline record for watersheds throughout South Carolina.

In 2020, Anderson & Pickens Counties Stormwater Partners (APCSP) worked with various groups to promote SC AAS. Activities included: sampling with students, residents, and other interested citizen scientists; hosting volunteer training events; and working with SC DHEC and Clemson's Center for Watershed Excellence to convert traditional classroom training to synchronous online training.



Be Septic Safe Program










Anderson & Pickens Counties Stormwater Partners collaborated with Carolina Clear and Clemson Extension to create a Be Septic Safe webpage to serve as a resource to help address bacteria impairments in our state. This tool, housed on the Clemson Extension Website, provides extensive information to educate and assist owners and users of septic tank systems. The page allows individuals to learn more about septic system design as well as use and maintenance to ensure septic systems function as intended. Topics addressed are listed below:

- Septic System Owners/Users
- Types
- Locating Your System
- Regulations and Permits
- Maintenance
- Septic System Failure
- Unique Situations
- Resources
- Acronyms



Each topic contains detailed information and links, when appropriate, to resources such as licensed contractors or specifics on the different types of septic systems. This educational resource will serve the community by helping residents maintain their systems. Septic systems that are regularly maintained save money, protect property values, keep family and neighbors safe, and protect the environment.

[Click here to sign up for an email reminder to inspect your system](#)

 Septic System Owners/Users	 Types	 Locating Your System
 Regulations and Permits	 Maintenance	 Septic System Failure
 Unique Situations	 Resources	 Acronyms

Pet Waste

Anderson & Pickens Counties Stormwater Partners worked in conjunction with Carolina Clear and Clemson Extension to develop a pet waste infographic, pet waste pledge, and a series of videos to help with educational outreach on the proper disposal of pet waste. Pet waste contains harmful bacteria that, when left on the ground, can enter our waterways through stormwater runoff and negatively impact the waterbody use. Pet owners play an important role in helping to keep South Carolina's water resources clean and safe. The infographic continues to be distributed at various locations throughout Anderson and Pickens counties. The infographic, pledge, and videos are available to view and share on the web via the Clemson Extension Carolina Clear website and the Anderson & Pickens Counties Stormwater Partners Facebook page.

Pet Waste Stinks!

Bacteria is the most frequently listed water pollutant in South Carolina.

One source of **bacterial pollution** is pet waste.

On average, pet waste contains **significantly MORE** harmful bacteria than human waste.

There are an estimated **1,423,000** dogs in South Carolina.

The average dog produces **.75** pounds of waste each day.

Over **1,067,250 pounds** of dog waste is deposited in South Carolina EVERY SINGLE DAY.

Harmful bacteria from pet waste can enter our waterways through stormwater runoff.

All stormwater is untreated and pollution left on land can ultimately end up in our creeks and rivers.

You can help!

1. Clean up after your pet EVERY SINGLE TIME. That includes both in the yard and on walks.
2. Be prepared. ALWAYS BRING A BAG!
3. Dispose of pet waste properly. Put it in the TRASH or flush it down the TOILET.

NOTE: Untreated pet waste should NOT be used as fertilizer.

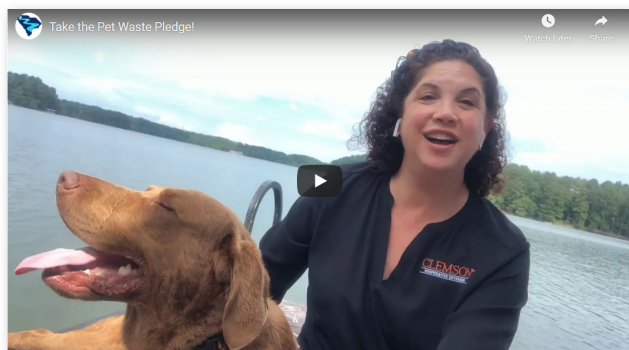
SOURCES: scdhec.gov/south-carolina-303a-604-impaired-waters-tracks-sma-use.edu/cumtmb/2009-the-pop-99-year-environmental-dooey-can-introduce-education.aspx; PetWasteCalculator.com/10-10-2019; nrc.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_035763.pdf; clemsonstormwater.net/wp-content/uploads/files/uploads/2017/08/Pet-Waste-Report_Final_1.pdf

CLEMSON
COOPERATIVE EXTENSION

Pet Waste Pledge!

I PROMISE TO HELP!

- I WILL** clean up after my pet every single time - both in the yard and on walks.
- I WILL** be prepared and always bring a bag.
- I WILL** dispose of pet waste properly - in the trash or flush it down a toilet.



stormwater PARTNERS 2020 Highlights

Fats, Oils, and Grease (FOG) Media Campaign

In 2020, Clemson Extension’s Carolina program launched it’s newest mass media campaign focused on the proper management and disposal of fats, oil and grease (FOG). Consortiums across the state, including Anderson & Pickens Counties Stormwater Partners, have identified improperly managed FOG material as a pollutant of concern. The target behavior of “Can it, Cool it, Trash it” will prevent FOGs from clogging pipes and causing environmental harm to downstream water quality. In the 2019 Carolina Clear statewide survey, 2,000 residents were asked in an open-ended question how they currently dispose of their kitchen grease. Approximately one third of the respondents (35%) let the grease cool and solidify, then they put it in the trash. The remaining 65% of respondents had varying answers including pouring it down a sink or toilet, pouring it into the trash when warm, reusing it, etc.

The multi-part mass media campaign included a billboard series and television commercial. In the fall of 2020, there were 22 copies of the billboard installed in eleven Counties around the state. This is an increase in 5 billboards from the 2018 Carolina Clear effort; the billboard campaign was made possible through a partnership with the Outdoor Advertising Association of South Carolina. Locally, billboards are rotated through select county locations and have included Hwy 123, Hwy 8, Hwy 28, Murray Avenue and resulted in a combined 230,714 estimated views (note this is a total of daily counts). The associated television commercial was one minute in length and depicted someone cooking in a residential setting in which the individual was met with conflicting advice from an angelic plumber and a grease goblin. In 2020, the commercial was aired in the Anderson and Pickens Counties on WYFF with a total viewership of 231,100 impressions. To view the commercial, visit <https://www.youtube.com/watch?v=Y2-tvWMHW4Q>.



FOG Billboard in Anderson & Pickens Counties

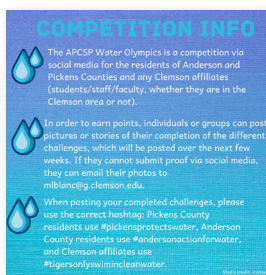


FOG Commercial from Carolina Clear

Water Olympics Social Media Competition

Engaging the public during the COVID-19 Pandemic posed some challenges and new opportunities for Anderson & Pickens Counties Stormwater Partners. One of the ways we succeeded in reaching new audiences on their own time included expanding our social media presence for sharing educational material. Starting May of 2020, APCSP launched a social media competition called the Water Olympics on our Facebook and Instagram profiles. The 2020 APCSP Water Olympics featured 10 challenges to encourage the consortium community to be active in reducing waste and preventing stormwater pollution, while learning best practices for both. This effort was largely successful due to the work of our 2020 Summer UPIC Intern, Maria Blanco. The Water Olympics concluded in August of 2020, and our top three contestants were Clemson University students. Taking home “gold” was Jeannette Fantone. Jeannette completed four challenges in the competition including documenting her local storm drain and showcasing how she actively reduces waste at home through recycling, composting, and upcycling. Jeannette received an Ivy Rain Barrel as her gold medal prize.

Through APCSP Facebook and the CU Stormwater Instagram Page, 2,348 people were reached or engaged in this competition.



*Water Olympics Winner
Jeannette Fantone*

stormwater PARTNERS 2020 Highlights



Webinars

In place of in-person workshops in 2020, Clemson Extension and Anderson & Pickens Counties Stormwater Partners developed and presented numerous webinars to residents and professionals. Below are selected examples.

ANDERSON & PICKENS COUNTIES
stormwater PARTNERS
A PUBLIC SERVICE OF CLEMSON UNIVERSITY

CLEMSON
COOPERATIVE EXTENSION

**HEALTHY PONDS:
MANAGING WATER QUALITY AND AQUATIC WEEDS**

Steven O'Shields Water Resources Agent Anderson County oshiel3@clemson.edu 864.359.3385	Haley Parent Water Resources Agent Clemson Campus hparent@clemson.edu 603.520.3247	Susan Lunt Water Resources Agent Pickens County slunt@clemson.edu 864.898.8324	Heather Nix Water Resources Agent Upstate Region nix4@clemson.edu 864.365.0630
--	---	---	---

Healthy Ponds Series

ANDERSON & PICKENS COUNTIES
stormwater PARTNERS
A PUBLIC SERVICE OF CLEMSON UNIVERSITY

CLEMSON
COOPERATIVE EXTENSION

**HEALTHY PONDS:
MANAGING ALGAE AND HARMFUL ALGAL BLOOMS**

Steven O'Shields Water Resources Agent Anderson County oshiel3@clemson.edu 864.359.3385	Haley Parent Water Resources Agent Clemson Campus hparent@clemson.edu 603.520.3247	Susan Lunt Water Resources Agent Pickens County slunt@clemson.edu 864.898.8324	Heather Nix Water Resources Agent Upstate Region nix4@clemson.edu 864.365.0630
--	---	---	---

Healthy Ponds Series

ANDERSON & PICKENS COUNTIES
stormwater PARTNERS
A PUBLIC SERVICE OF CLEMSON UNIVERSITY

CLEMSON
COOPERATIVE EXTENSION

**STORMWATER POND INSPECTIONS AND
MAINTENANCE 101**

Steven O'Shields Water Resources Agent Anderson County oshiel3@clemson.edu 864.359.3385	Susan Lunt Water Resources Agent Pickens County slunt@clemson.edu 864.898.8324	Haley Parent Water Resources Agent Clemson Campus hparent@clemson.edu 603.520.3247
--	---	---

Healthy Ponds Series

CLEMSON
COOPERATIVE EXTENSION



**BEING A
NEIGHBOR FOR
CLEAN WATER**

*Lunch-and-Learn Webinars
Earth Week 2020*

The original intention of this series was to assist residents during the public health crisis associated with COVID-19 with at home projects. It was offered for free to meet the growing need for content at this time. Subsequent offerings may differ in terms of content and price.

Being a Neighbor for Clean Water Series

CLEMSON
COOPERATIVE EXTENSION

**WATERSHEDS & AQUATIC WEEDS
MASTER GARDENER WATER WEBINAR SERIES 2020**

Susan Lunt Water Resources Agent Pickens County slunt@clemson.edu 864.898.8324	Heather Nix Water Resources Agent Upstate Region nix4@clemson.edu 864.365.0630
---	---

Master Gardener Water Wednesday Series

**Water Management in the
Home Landscape**

Master Gardener Water Webinar Series 2020

Kim Morganello Clemson Extension Water Resource Agent Charleston	Haley Parent Clemson Extension Water Resource Agent Clemson Campus
--	--

CLEMSON
COOPERATIVE EXTENSION

Master Gardener Water Wednesday Series

Annual Report of Activities Format

This annual report is intended to give the reader a comprehensive look at the APCSP from January 1, 2020 through December 31, 2020. This report delineates activities into public education and public involvement categories. For each activity, a brief description is provided as well as information on lead provider, supporting partners, date, number of impacts, and target audiences. Furthermore, public education activities are identified as either direct or indirect outreach strategies.

Clemson Extension's Carolina Clear program developed an online database to record detailed information on activities conducted by consortium partners. The data collected in the online database includes information on target audiences, pollutants addressed, activity type, lead service providers, supporting partners, number of impacts, location, and several other categories. This annual report provides a condensed version of the information collected in the online database as well as additional, supplementary information sourced from APCSP partners.

Public education activities are classified into two broad categories, **direct** and **indirect** outreach methods, to express mechanisms by which information has been communicated to the public. Direct methods include activities that are implemented via direct personal contact. Examples of direct methods include workshops, presentations, trainings, and public involvement activities. In contrast, indirect outreach methods refer to contacts through traditional media channels including television, radio, print, and billboards. Indirect methods generally reach a much greater portion of the population due to the nature of their mediums; however, it is often more difficult to gauge specific impacts. When dealing with direct methods, smaller numbers of people are reached yet the ones that are reached generally provide a forum for direct evaluation and feedback. Each method is important in the overall education campaign, and both are part of the five year educational strategy for the APCSP. Throughout the document, the words "direct" or "indirect" are provided at the top of each reporting table.

Data provided are as accurate as possible and are reviewed by multiple individuals involved in the reporting process. However, due to the nature of indirect outreach initiatives, indirect impact numbers are typically estimates.

The activities in the report are listed in table format.



DATE	ACTIVITY DESCRIPTION	PARTNERS	NUMBER OF IMPACTS
2020	FOG Commercial on WYFF in Pickens and Anderson Counties	Clemson Extension, Carolina Clear, APCSP	231,100
2020	SC ETV Making it Grow! 20,939 average viewers per household + 8,798 unique viewers on Facebook	Clemson Extension, SC ETV	29,737
2020	FOG Billboard in Pickens and Anderson Counties	Clemson Extension, APCSP	230,714
2020	The Carolina Clear page had 15,194 visits with 1,651 of those specific to the APCSP Consortium webpage	Clemson Extension, Carolina Clear	13,543
2020	Carolina Yards Website	Clemson Extension, Carolina Clear	31,844
2020	Clemson Extension Water Resource Team Website	Clemson Extension, Carolina Clear	89,473
2020	Stormwater Pond Management Website	Clemson Extension, Carolina Clear	75,688
2020	Carolina Rain Garden Initiative Website	Clemson Extension, Carolina Clear	6,109
2020	APCSP Website	APCSP, Clemson Extension, Carolina Clear	1,651
2020	Carolina Clear Facebook Page	Clemson Extension, Carolina Clear	48,340



DATE	ACTIVITY DESCRIPTION	PARTNERS	NUMBER OF IMPACTS
2020	APCSP Facebook Page (does not include reach from 2020 social media contest, reported separately)	APCSP, Clemson Extension, Carolina Clear	6,693
2020	CU Stormwater Instagram	APCSP, Clemson Extension, Carolina Clear	330
2020	Carolina Clear YouTube Channel (322 hours watch time)	Clemson Extension, Carolina Clear	9,604
4/21/20-9/29/20	I Love Water Video created for the Pickens County Library for Earth Day and Six Mile Elementary/others for educational purposes	APCSP, Clemson Extension, Pickens County Library, SDPC	4,396
5/19/20	Sedimentation/Pervious/Impervious-Surfaces/Envirosapes videos: supplement to Envirosapes Video, distributed to all 3rd grade students in Pickens County participating in TTB	APCSP, Clemson Extension, PCBEAC, SDPC	1,400
5/29/20-8/7/20	APCSP Water Olympics 2020 Social Media Contest on FB and IG: 10 challenges to encourage the consortium community to be active in reducing waste and preventing stormwater pollution	APCSP, Clemson Extension	2,348
7/14/20-9/30/20	Sewer vs. Storm Drains Video created for 4-H and GGSC	APCSP, Clemson Extension, 4-H, GGSC	21
10/16/20	Indigenous Peoples Day Video: virtual reading of "We Are Water Protectors" and taking Environmental Stewardship Pledge	APCSP, Clemson Extension, Pickens County Library, 4-H, Little John Community Center	8,208
ongoing	Video Tutorial for septic find and fix application as part of the LKSWPT efforts (319 grant)	APCSP, Clemson Extension, LKSWPT	ongoing



DATE	ACTIVITY DESCRIPTION	PARTNERS	NUMBER OF IMPACTS
2020	APCSP Monthly E-Newsletter	APCSP	317
2020	Articles for FOLKS newsletter The Sentinel on the following topics: Traveling Trash Bash, Rain Water Harvesting, Pet Waste, Septic Systems, FOG	APCSP, FOLKS	1,200
2020	Articles for PCSWCD newsletter on the following topics: Traveling Trash Bash, Rain Water Harvesting, Pet Waste, Septic Systems, FOG	APCSP, PCSWCD	400
2020	HGIC Fact Sheets on the following topics: Recreational Pond Water Chemistry, Stormwater Ponds: Inspection and Maintenance Considerations, Stormwater Ponds: A Guide for Pond Owners, FOG Pollution, Rain Chains, Bryozoans, Managing Water in the Home Landscape, SC Water Planning, Submitting an Algae Sample for Identification, Trees for Stormwater Management	Clemson Extension	14,895
2020	HGIC Blog Posts on the following topics: Meet Your Stormwater Pond, Kitchen Fats, Oils, and Grease: Pour it, cap it, cool it, trash it, Water Use in South Carolina, Permeable Hardscaping, Proper Disposal of Unwanted Medicine, Rain Barrels: A family or housemates activity, Protecting Water Quality with Vegetative Buffers, What's on Tap: Well Water and Your Health, Controlling Aquatic Weeds in Your Pond, Waterwise: Cleaning Paintbrushes, Be Septic Safe, Cyanobacteria - is it toxic?, What's this stuff in my stream?!, The pesky wet spot in your lawn, Liming Fish Ponds Starts with a Soil Test	Clemson Extension	8,452
2020	Newspaper articles for Upstate Today/The Journal on the following topics: Rainwater Harvesting, FOG	APCSP, Clemson Extension, Upstate Today/The Journal	8,500



DATE	ACTIVITY DESCRIPTION	PARTNERS	NUMBER OF IMPACTS
5/21/20	"Rising tide: Clemson scientists seek solutions to state's mounting nuisance floods" Clemson News Article	Clemson University, Clemson Extension	713
8/10/20	"Clemson seeks community input into cleanup plan for Edisto waterways" Clemson News Article	Clemson University, Clemson Extension	754
2020	The City of Anderson provided restaurants with FOG training packets produced by APCSP	APCSP, City of Anderson, Clemson Extension	5
2020	The City of Anderson provided public residents with FOG can lids (produced by APCSP) attached to educational flyers	APCSP, City of Anderson, Clemson Extension	10
2020	Provided Anderson County Stormwater Program 150 pamphlets for distribution to the public. The pamphlet provided instructions on how to take an accurate soil sample for submittal to Clemson's Agricultural Service Lab	Anderson County, APCSP, Clemson Extension	150
2/7/20-12/31/20	Provided outreach material to Anderson County Stormwater for distribution to the public (FOG fact sheet; soil sample brochure; capture the rain rack card; site stabilization brochure)	Anderson County, APCSP, Clemson Extension	25
12/1/20-12/31/20	City of Liberty posting the FOG billboard image on the back of every water bill. 1600 Households impacted	APCSP, City of Liberty, Clemson Extension	1,600
12/7/20-12/12/20	The City of Anderson distributed 8,000 garbage cart notices with an educational message about adopting neighborhood storm drains and keeping them clear of pollutants	City of Anderson	8,000
12/10/20	Pickens Waste Treatment Plant - provide information and help with FOG restaurant information packets and materials	APCSP, City of Pickens, Clemson Extension	55



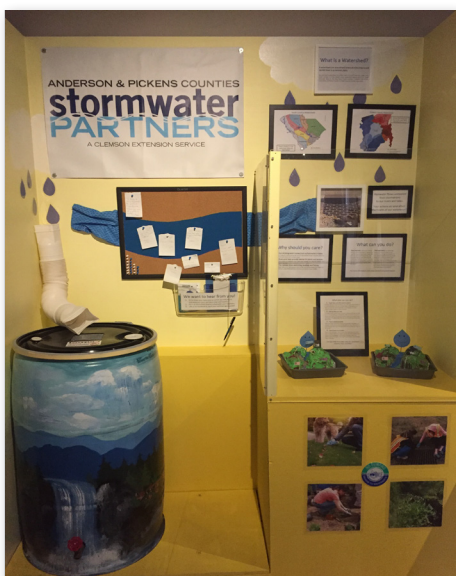
DATE	ACTIVITY DESCRIPTION	PARTNERS	NUMBER OF IMPACTS
ongoing	Guide to Rain Gardens in SC Manual	Clemson Extension, Carolina Clear	ongoing
ongoing	Site Stabilization Brochures	Clemson Extension, Carolina Clear, City of Anderson, APCSP	ongoing
ongoing	Educational Postcard Series	APCSP	ongoing
ongoing	Tip Sheets	APCSP	ongoing
ongoing	Carolina Yardstick Manual	Clemson Extension	ongoing
ongoing	Rainwater Harvesting for Homeowners	Clemson Extension, Carolina Clear	ongoing
2/1/20-9/30/20	APCSP Promotional items: pencils, pens, crayons provided to each TTB participant (or planned participant due to COVID-19) which is every 3rd grade student in Pickens County. Also provided to students at Six Mile Elementary and others	APCSP, Clemson Extension, PCBEAC	1,462
2/13/20-12/31/20	Provided the City of Anderson Wastewater with FOG can lids to handout to homeowners to encourage proper disposal of FOG	APCSP, City of Anderson, Clemson Extension	50
3/9/20	Provided "All In for Lake Hartwell" stickers for Sadlers Creek State Park Youth Fishing Tournament	APCSP, Clemson Extension, Sadlers Creek State Park	100



DATE	ACTIVITY DESCRIPTION	PARTNERS	NUMBER OF IMPACTS
8/7/20	Ivy Rain Barrel gifted to winner of Water Olympics Social Media Contest	APCSP	1
9/29/20	Provide Rain Barrel, adapter kit, paint and how to instructions and video (including benefits of rain water harvesting) to Six Mile Elementary	APCSP, Clemson Extension, SDPC	62
12/1/20-12/31/20	APCSP Promotional Items: FOG lids and potholders delivered to residents: individuals who requested, EFNEP programming, 4-H, GSSC, Thanksgiving packets	APCSP, Clemson Extension, 4-H, GSSC, EFNEP	53
ongoing	Provided Clemson University Kite Hill Recycling Center with FOG rack cards and can lids for giveaways during a co-sponsored FOG drive on campus in partnership with Green Energy Biofuels	APCSP, Clemson University, Solid Green, Green Energy Biofuels	ongoing
2020	APCSP Promotional Items distributed at various events: "All In for Lake Hartwell" stickers, Clemson Extension re-usable straws, "All In for Lake Hartwell" coasters, Clemson Extension pens, "All In for Lake Hartwell" re-usable bags	Clemson Extension, APCSP	720
ongoing	Sensory rain garden signs at Pickens Doodle Park	Clemson Extension	ongoing
ongoing	Rain Barrels in Anderson and Pickens Counties	APCSP	65
ongoing	Rain Barrel on Clemson University Campus	Clemson University	1
ongoing	Pet Waste Stations located in Anderson and Pickens Counties	APCSP	45
ongoing	Compost bin displays in Anderson and Pickens Counties	APCSP	8



DATE	ACTIVITY DESCRIPTION	PARTNERS	NUMBER OF IMPACTS
ongoing	Permeable pavement demo site	City of Anderson	1
ongoing	Rain gardens and bioretention cells located in Anderson and Pickens Counties	APCSP	27
ongoing	Protecting Water Resources Display at Pickens County Art & History Museum	APCSP, Pickens County Art & History Museum	714
ongoing	Education displays and posters for County Office with materials available to the public	APCSP	ongoing



Protecting Water Resources Display at Pickens County Art & History Museum



Rain Barrels at CU



DATE	ACTIVITY DESCRIPTION	PARTNERS	NUMBER OF IMPACTS
6/15/20-8/11/20	Extension agents visited and evaluated rain and native gardens located at the Pickens County Education Building with plans to use as a demonstration site. A scope and budget presentation was developed for the PCBEAC to share with the County Administrator and other county officials, presentation included tasks for three phases, budget, community involvement, and educational outreach materials	APCSP, Clemson Extension, PCBEAC	12
2020	Anderson County Water Resource Extension Agent responded to 42 requests from the public regarding information on, or technical assistance with, various items stormwater-related issues including rain barrels, stormwater BMPs, stormwater ponds, and recreational pond management	APCSP, Clemson Extension	42
2020	Water Resource Agents in Pickens County corresponded with the community via calls/emails. Issues addressed: septic, wet yards, sinking yards, stream bank repair, AAS, TTB, lot erosion, nuisance wildlife, ponds, drinking water, programs for youth, weed identification, FOG, petwaste, letter, rain water harvesting, pond and soil sampling, water analysis, algae	APCSP, Clemson Extension	100
2020	Water Resource Agent on campus responded to 50 requests from the public and campus community for information on, or technical assistance with, various items stormwater-related issues including rain barrels, stormwater BMPs, stormwater ponds, recreational ponds, stormwater permitting, AAS, drinking water, programs for youth, FOG, petwaste, etc	APCSP, Clemson Extension	50
8/17/20	Site visit to Patrick Square Residential Community to discuss/train community in stormwater pond management and inspections	APCSP, Clemson Extension	4
2020	Clemson Extension in cooperation with Clemson's Agricultural Service Lab, processed soil and water samples for Anderson County residents and commercial audiences. Impact represents Anderson County total	Clemson Extension	96
2020	Clemson Extension in cooperation with Clemson's Agricultural Service Lab, processed soil and water samples for Pickens County residents and commercial audiences. Impact represents Pickens County total	Clemson Extension	49



DATE	ACTIVITY DESCRIPTION	PARTNERS	NUMBER OF IMPACTS
1/23/20	Hosted a "SILT FENCE AND BEYOND: SEDIMENT AND EROSION CONTROL BEST PRACTICES WORKSHOP" intended for contractors, inspectors, and regulators who wanted to learn more about how to save money and time on job sites through the proper selection, installation, and maintenance of construction BMPs	APCSP, Clemson Extension, PCSWCD, ASWCD	23
2/1/20-3/31/20	Traveling Trash Bash for all 3rd grade students in Pickens County	APCSP, Clemson Extension, PCBEAC, SDPC	1,028
2/7/20-3/6/20	WOW Jr. lessons and activities 4 and 5 at Central and Townville Elementary Schools.	APCSP, Clemson Extension, Clemson University	106
2/12/20	Site Visit to Mile Creek Park to discuss Septic Systems and educational outreach	APCSP, Clemson Extension, Upstate Forever	4
3/11/20	Presentation of Carolina Clear survey results specific to consortium region presented to APCSP	APCSP, Clemson Extension, Carolina Clear	13
3/13/20	Educational presentation on stormwater to all 3rd-grade classes for Anderson County District 5 Career Day at Whitehall Elementary	APCSP, Clemson Extension, Anderson School District 5	120
4/20/20-4/24/20	Being a Neighbor for Clean Water Webinar Series. Topics included Keeping our Water Clean: Understanding Stormwater; Shoreline Management for your Pond; Reducing Pollution with Floating Wetlands; Rain Gardens; Water-Wise Landscaping	APCSP, LSP, FDSC, Clemson Extension	67
4/29/20	Presented webinar entitled "Stormwater Pond Inspections and Maintenance 101" on behalf of Spartanburg Extension Office. Participants were from Spartanburg and interested participants from neighboring counties	Clemson Extension, Carolina Clear	20
5/28/20	Presented webinar entitled "Stormwater Pond Inspections and Maintenance 101" to Anderson and Pickens Counties residents and interested participants from neighboring Counties	APCSP, Clemson Extension, Carolina Clear	26



DATE	ACTIVITY DESCRIPTION	PARTNERS	NUMBER OF IMPACTS
7/30/20	Presented Webinar entitled "Healthy Ponds: Managing Water Quality and Aquatic Weeds."	APCSP, Clemson Extension	52
9/11/20	Presented Webinar entitled "Healthy Ponds: Managing Algae and Harmful Algal Blooms."	APCSP, Clemson Extension	25
9/12/20	SC AAS online workshop for CU students. Classroom portion for physical, chemical, and bacteria protocol	APCSP, Clemson University, Center for Watershed Excellence	4
10/7/20	Water Management in the Home Landscape webinar given to SC Master Gardeners	Clemson Extension, Carolina Clear	32
10/21/20	Watersheds & Aquatic Weeds Webinar given to SC Master Gardeners	Clemson Extension, Carolina Clear	13
11/1/20-12/31/20	MS4 Stormwater Compliance Training Program for Clemson University Employees. 130 participants passed certification in 2020	APCSP, Clemson Extension, Carolina Clear, Clemson University	130
2020	CEPSCI Course: Clemson provides training and certification for the Certified Erosion Prevention and Sediment Control Inspector (CEPSCI) program to assist in pollution prevention control on construction projects. Impacts reflect statewide trainings. Due to precautions associated with COVID-19, starting May 2020, all CEPSCI certification and recertification moved to online synchronous and asynchronous formats, including online certification exams	Clemson Extension, SCDHEC	1,104
2020	CSPR Course: Clemson provides training and certification for the Certified Stormwater Plan Reviewer (CSPR) program to educate personnel on the proper design and review of stormwater and sediment control plans for development sites in order to meet regulatory and environmental requirements. Due to precautions associated with COVID-19, starting June 2020, all CSPR certification moved to online synchronous and asynchronous formats, including online certification exams	Clemson Extension, SCDHEC	53

DATE	ACTIVITY DESCRIPTION	PARTNERS	NUMBER OF IMPACTS
2020	Post-Construction BMP Inspector Re-Certification Course: online and field-based training focused on inspection and maintenance of best management practices used for stormwater management. Due to precautions associated with COVID-19, the class and workshop were fully on-line for Fall 2020.	Clemson Extension, Clemson University	26
2020	Master Pond Manager: Master Pond Manager teaches recreational and stormwater pond management training to participants through online classroom and field-based curriculum. Clemson was able to offer Master Pond Manager in both the spring and fall of 2020, however Due to precautions associated with COVID-19, the fall class was only offered as an online Letter of Completion and there were no in-person field days	Clemson Extension	58
2020	Carolina Yards online course: Carolina Yards Online provides online learning opportunity to focus on environmentally friendly landscaping practices. As a result of the course, participants report plans to: install a rain garden, begin composting, provide for wildlife, and share the information learned with others. These actions allow citizens to achieve their desired landscape while actively conserving and protecting natural resources and supporting wildlife	Clemson Extension	20
2020	Master Rain Gardener: online and field-based training focused on rain garden and rainwater harvesting system design and implementation. Due to precautions associated with COVID-19, the Master Rain Gardener course took place online only in 2020 with plans to host the associated field day in 2021. Participants enrolled in the class in both the spring and fall of 2020	Clemson Extension	43





DATE	ACTIVITY DESCRIPTION	PARTNERS	NUMBER OF IMPACTS
1/11/20	SC AAS field sampling with Clemson University Stream Team Students at Hunnicutt Creek in SCBG	Clemson Extension, Clemson University	14
2/8/20	SC AAS workshop & field sampling for local residents, students and other interested citizen scientists to learn and become certified in the SC AAS physical, chemical, and bacteria protocol	Clemson Extension, Clemson University, Center for Watershed Excellence	19
2/14/20	ClemsonLIFE students volunteering preparing education materials for upcoming TTB led by water resource agents	APCSP, Clemson University	10
3/3/20	Clemson University Sustainability Week Water Day: watershed/stormwater informational tabling from Clemson water resource agent and student volunteers + water quality demonstrations students/faculty/staff participated in	APCSP, Clemson Extension, Clemson University, Tigers for Green Innovation	150
5/7/20	Rain barrel sale at Clemson University Center for Watershed Excellence	APCSP, Clemson Extension	21
6/20/20	Hosted SC AAS Physical, Chemical, Bacteria training online followed by an in-person sampling event	APCSP, Clemson Extension, SCDHEC	11
9/15/20	SC AAS Physical, Chemical, Bacteria Field Sampling & Training for Clemson University students	APCSP, Clemson Extension, Center for Watershed Excellence	2
9/15/20	Hosted SC AAS Physical, Chemical, Bacteria training online followed by an in-person sampling event	APCSP, Clemson Extension, SCDHEC	12
11/24/20	SC AAS demonstration and sampling	APCSP, Clemson Extension	1



DATE	ACTIVITY DESCRIPTION	PARTNERS	NUMBER OF IMPACTS
1/9/20	PCSWCD Meeting, APCSP as guests	APCSP, PCSWCD	6
2/4/20	Pickens County Advisory Council Meeting	Clemson Extension	19
2/5/20	FOLKS Meeting	Clemson Extension, FOLKS	10
3/11/20	ACPSP Spring Quarterly Consortium Meeting	APCSP, Clemson Extension	13
7/12/05	PCBEAC Meetings	Clemson Extension, PCBEAC, Pickens County	10
9/16/20	APCSP Fall Quarterly Consortium Meeting	APCSP, Clemson Extension	16
12/10/20	APCSP December Quarterly Consortium Meeting	APCSP, Clemson Extension, LHPCW	19
Monthly	Clemson University Solid Green Committee Meetings	APCSP, Clemson Extension, Clemson University, Solid Green, Palmetto Pride	34
Monthly	APCSP participation in Anderson Area Chamber of Commerce Water Resources Committee	Anderson County, APCSP, City of Anderson, Clemson Extension	10
Monthly	APCSP participation in ASWCD Monthly Meetings	APCSP, Clemson Extension, ASWCD	10



DATE	ACTIVITY DESCRIPTION	PARTNERS	NUMBER OF IMPACTS
Monthly	APCSP participation in LHPCW Monthly Meetings	APCSP, Clemson Extension, Clemson University, USACE, Saddlers Creek State Park, Anderson Regional Joint Water System, Powdersville Water, Duke Energy	27
Monthly	Clemson University Sustainability Commission Meetings	APCSP, Clemson Extension, Clemson University	25
Monthly	LKSWPT Monthly Meetings	Clemson Extension, LKSWPT	14
ongoing, 2020	Carolina Yards certifications in SC: 556 total certified yards in SC, 68 new yards in 2020	Clemson Extension	556



Clemson Stream Team Monthly SCAAS



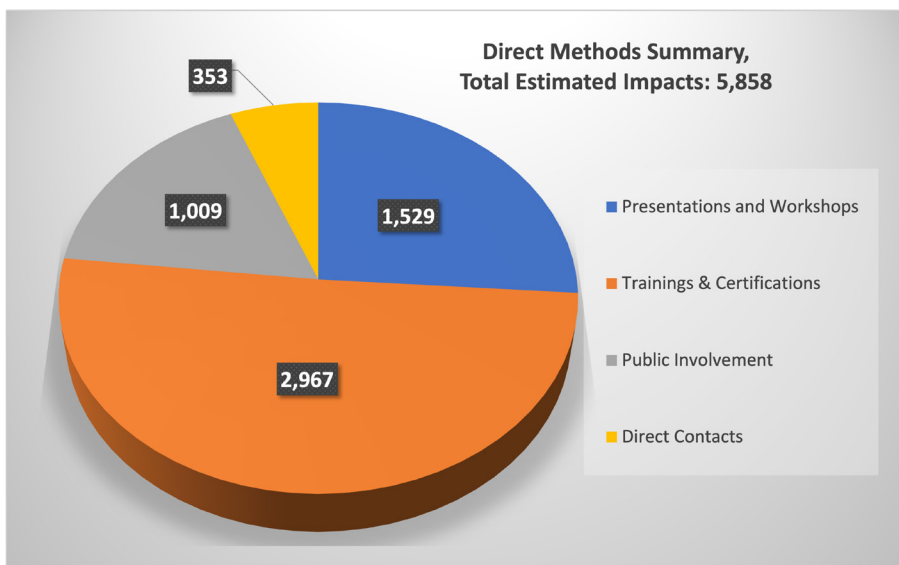
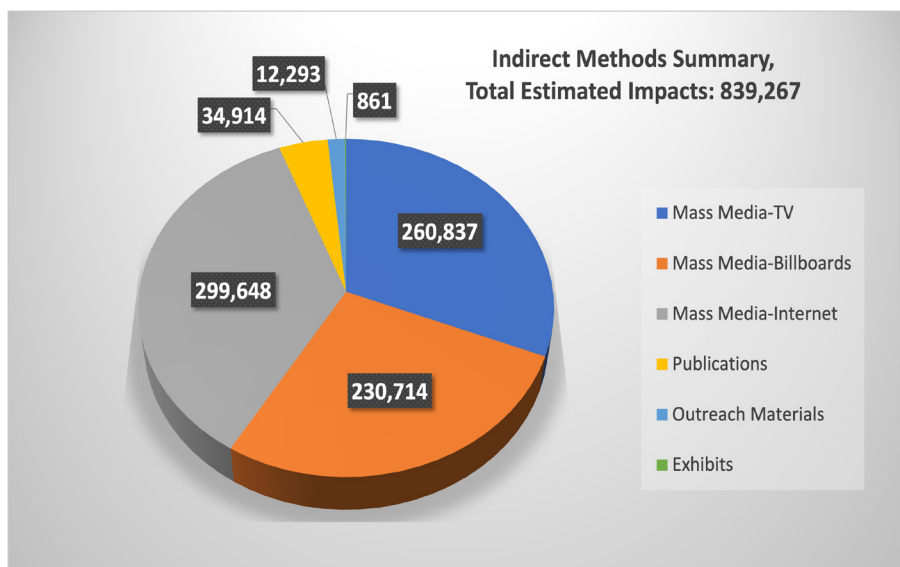
Summer & Fall '20 UPIC Intern Maria Blanco

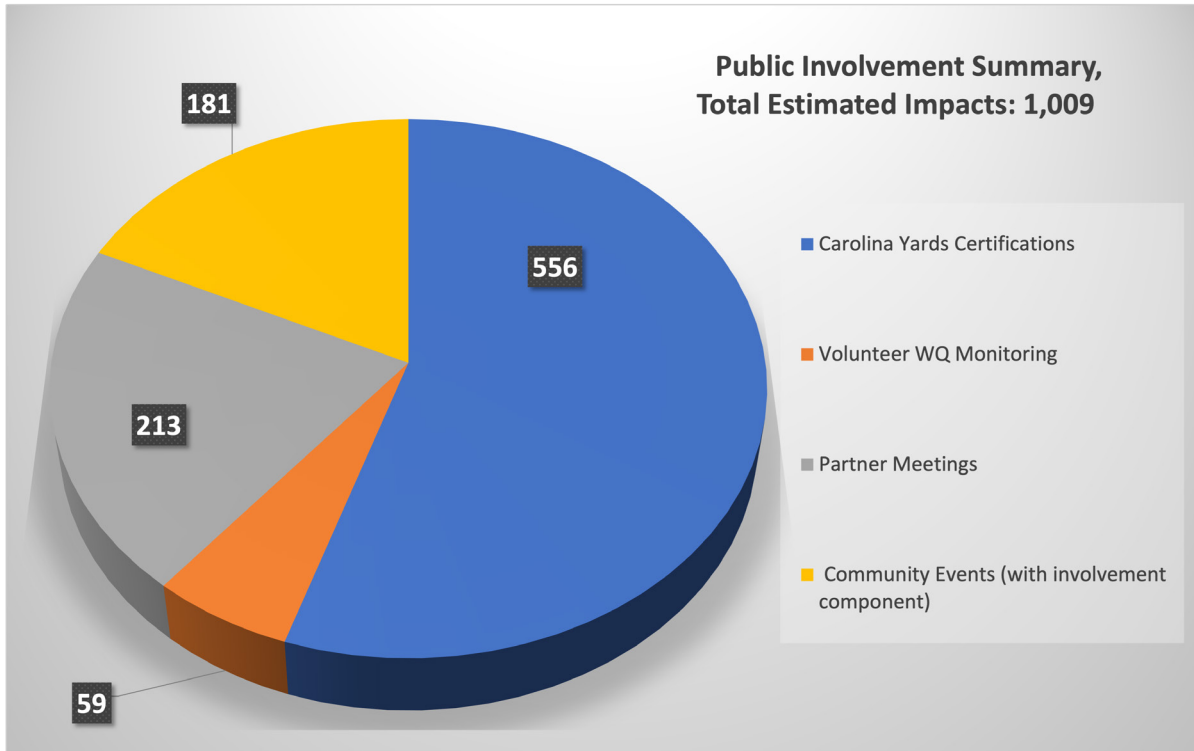


Providing On-site Stormwater Pond Sampling

Outreach Summary

The Anderson & Pickens Counties Stormwater Partners impacted an estimated 845,125 people through direct & indirect education & outreach and public involvement in 2020. Indirect methods resulted in 839,267 impacts through mass media and other efforts. Direct methods reached 5,858 individuals through presentations, trainings, workshops, and public involvement opportunities.





CU Students Volunteering for WQ Demonstrations and Outreach during Water Day/ Sustainability Week

Education Plan:

Sediment

1. Erosion from Construction Sites
2. Residential Erosion

1. Erosion from Construction Sites

Target audience: Construction companies who do not properly install and maintain BMPs for erosion and sediment control

Problem: Some construction companies do not properly install and maintain BMPs for erosion prevention and sediment control.

Goal: Decrease time to stabilization and amount of bare soil.

Objective: Increase the number of construction sites that utilize BMPs for sediment control in a timely manner.

Message	Format and distribution	Resources	Evaluation
<ul style="list-style-type: none"> • It is the law to stabilize. • Save time and money by doing it right. 	<ul style="list-style-type: none"> • Silt Fence and Beyond • CEPSCI • Economics brochure • LID workshops • IECA Field Day • Post Construction BMP Inspector • Homebuilder's Association presentations 	<ul style="list-style-type: none"> • SCASM • Municipalities • University • Contractors and construction companies 	<ul style="list-style-type: none"> • Number of people who attend workshops & evaluation data • Number of brochures distributed

Actions:

- Host Silt Fence and Beyond workshop, with a new focus on economics.
- Create brochure that focuses on economics at pre-con meetings, directly to construction companies, Homebuilder's Association, etc.
- Continue offering and offer support for CEPSCI, IECA Field Day, LID workshops and other existing programs.

2. Residential Erosion

Target audience: Homeowners

Contributing behavior: Homeowners with sediment issues who do not properly install and maintain BMPs are contributing sediment to local waterways.

Goal: Decrease time to stabilization and amount of exposed soil.

Objective: Increase the number of BMPs installed for sediment control in a timely manner.

Education Plan:

Message	Format and distribution	Resources	Evaluation
<ul style="list-style-type: none"> Bare soil negatively impacts our water health. Sites need to be stabilized ASAP. Riparian buffers help protect your land from erosion. 	<ul style="list-style-type: none"> Billboards Newspaper articles Factsheet geared toward homeowners Carolina Yards (CY) & Rain Garden workshops Rain barrel sale, painting, building, etc. 	<ul style="list-style-type: none"> University Municipalities Home & Garden Information Center (HGIC) 	<ul style="list-style-type: none"> Number of people who attend & participant evaluation from workshops Rain barrels sold Viewership from billboards/newspaper CY certifications Number of phone calls asking for help
	Format and distribution, contd.		Evaluation, contd.
	<ul style="list-style-type: none"> Riparian buffer workshop Master Pond Manager & Master Rain Gardener 		<ul style="list-style-type: none"> Number of rain gardens installed Riparian buffer demo site Number of people accessing erosion factsheet
Actions:			
<ul style="list-style-type: none"> Host Carolina Yards & Rain Garden workshops. New and existing rain barrel programs. Host Master Pond Manager and Master Rain Gardener courses. Create homeowner erosion factsheet. Create regional billboard. 			

Litter

- Litter
- Illegal Dumping

1. Litter

Target audience: People Who Litter

Contributing behavior: People who contribute to roadside littering or improperly dispose of household items.

Goal: Decrease litter found on the land and in waterways.

Education Plan:

Objective: Increase litter clean up campaigns for streams.			
Message	Format and distribution	Resources	Evaluation
<ul style="list-style-type: none"> Litter is getting into the stormwater systems and our streams, polluting the environment and potentially causing storm drain failure. Litter can negatively affect tourism and property values and can increase crime. 	<ul style="list-style-type: none"> Mass media Factsheets Newspaper articles Who to Call List List of approved dump locations Community clean-up efforts 	<ul style="list-style-type: none"> Municipalities University Invested organizations in the county (Keep America Beautiful, Adopt a Highway) Palmetto Pride or other grants for litter prevention and clean-up Solid waste departments Law enforcement/litter officers 	<ul style="list-style-type: none"> Number of organized clean ups on streams Number of published articles about litter clean ups Number of bags of waste picked up
Actions:			
<ul style="list-style-type: none"> Create or streamline online resources, including Who to Call list. Organize stream clean ups. 			

2. Illegal Dumping

Target audience: People dumping trash in business dumpsters			
Contributing behavior: People who dump their trash illegally in business dumpsters, causing them to overflow.			
Goal: Decrease illegal dumping and overflowing of business dumpsters.			
Objective: Increase awareness and education of illegal dumping.			
Message	Format and distribution	Resources	Evaluation
<ul style="list-style-type: none"> Dumping homeowner trash in business dumpsters is illegal. 	<ul style="list-style-type: none"> Mass Media Fact Sheets Educational packets for businesses Who to Call List List of approved dump locations 	<ul style="list-style-type: none"> Municipalities University Chamber of Commerce Solid waste departments Law enforcement/litter officers 	<ul style="list-style-type: none"> Number of signs distributed

Education Plan:

Actions:

- Create or streamline online resources, including Who to Call list
- Create signage for businesses with link to resources

Bacteria

1. Septic System Maintenance
2. FOG Disposal
3. Dog Waste

1. Septic System Maintenance

Target audience: Homeowners on septic

Contributing behavior: Septic systems that are not properly maintained/repaired.

Goal: Decrease bacteria contributed by failing septic.

Objective: Increase awareness and proper maintenance of septic systems.

Message	Format and distribution	Resources	Evaluation
<ul style="list-style-type: none"> • Failing septic contributes to pathogens in the environment that can make humans sick. • Save money by maintaining instead of waiting for failure. 	<ul style="list-style-type: none"> • Billboards • Newspaper articles • Updated fact sheets/postcards • Economic emphasis • Septic workshops 	<ul style="list-style-type: none"> • DHEC factsheets • 319 grants • Septic companies • Realtors • University 	<ul style="list-style-type: none"> • Number of people who attend workshops & program evaluations • Self-reporting on state survey • Site specific website hits on developed web-based material • Number of magnets distributed

Actions:

- Create map for septic in our counties and determine problem areas.
- Create workshop/presentation for septic owners.
- Develop online resources - contractors, tips for inspection.
- Update septic postcard and create magnet.

2. FOG Disposal

Target audience: Homeowners and rental properties

Contributing behavior: FOG (fats, oils, and grease) that is not disposed of properly.

Goal: Decrease bacteria contributed by FOG-related sewer overflows.

Objective: Increase awareness and proper disposal of FOG.

Education Plan:

Message	Format and distribution	Resources	Evaluation
<ul style="list-style-type: none"> FOG down drains can clog pipes and lead to sewer overflows. Save money on pipe repairs by properly disposing of FOG. 	<ul style="list-style-type: none"> Apartment-specific FOG info Updated postcard Newspaper articles 	<ul style="list-style-type: none"> Municipalities/wastewater utilities Apartment rental offices HOAs DHEC 	<ul style="list-style-type: none"> Number of educational materials distributed
Actions:			
<ul style="list-style-type: none"> Distribute FOG magnets/ FOG lids to apartment complexes. Create poster/door hanger for apartment complexes. Write newspaper articles regarding residential FOG. 			

3. Dog Waste

Target audience: Pet owners

Contributing behavior: Dog owners are not properly picking up and disposing of their pet waste.

Goal: Increase the amount of pet waste picked up and thrown away.

Objective: Increase awareness about why people should clean up after their pet.

Message	Format and distribution	Resources	Evaluation
<ul style="list-style-type: none"> Pet waste contributes to bacteria pollution of our surface water. A small change in habit can make a big difference for water quality. Utilize pet waste stations when available. 	<ul style="list-style-type: none"> Commercial and billboards Factsheet Dog park signage and education Puppy packets with educational material at dog adoption centers 	<ul style="list-style-type: none"> University Adoption clinics Dog parks 	<ul style="list-style-type: none"> Number of signed puppy pledges Number of pet waste bags clips distributed Viewership of mass media campaign Number of public events /programs where relevant information is distributed
Actions:			
<ul style="list-style-type: none"> Distribute pet waste bag clips. Get puppy pledges signed at adoption centers. Mass media campaign - commercial and billboards. Update postcard. Create signage for pet waste stations. 			

AUTHORS

STEVEN O'SHIELDS

WATER RESOURCES AGENT, ANDERSON COUNTY

HALEY PARENT

WATER RESOURCES AGENT, CLEMSON UNIVERSITY

SUSAN LUNT

WATER RESOURCES AGENT, PICKENS COUNTY



Carolina Clear is a program of the Clemson University Cooperative Extension Service. Information is provided by Faculty and Cooperative Extension Agents. Clemson University Cooperative Extension Service offers its programs to people of all ages, regardless of race, color, gender, religion, national origin, disability, political beliefs, sexual orientation, gender identity, marital or family status and is an equal opportunity employer.

Produced March 2021

ANDERSON & PICKENS COUNTIES

stormwater PARTNERS



COOPERATIVE EXTENSION
College of Agriculture, Forestry and Life Sciences



**Carolina
CLEAR**
A Service of Clemson Extension

www.clemson.edu/extension