

The Landing Rate Count

www.scmca.net

Newsletter of the South Carolina Mosquito Control Association

August 2017 – Vol 43 • Issue 2

Editor: Robert Cartner

The President's Message

Dr. Chris Evans



**Dr. Chris Evans -
2017 SCMCA President**

The mosquito control profession has had a long history of improving quality of life and combatting mosquito-borne diseases, and in ensuing years, mosquito control personnel have refined their methods through scientific research and conforming to criteria that meet stringent federal and state safety standards. The Environmental Protection Agency (EPA) regulates mosquito control and ensures that public health pesticides for mosquito control do not represent human or environmental health risks when used as directed. A registrant may pay up to several million dollars per pesticide product.

Even with established safeguards, mosquito control agencies go out of their way to accommodate individuals who wish for their

property not to be sprayed, using personal notifications or Global Positioning Systems (GPS) to turn off sprayers. Still, no-spray activists push for the elimination of public health pesticides. However, the few products that survive rigorous EPA testing must be available to control mosquitoes vectoring diseases in times of public health emergencies. More unforeseen threats from new and emerging exotic arboviral diseases due to extensive worldwide trade and tourism must be met with ready-to-go mosquito control expertise, products, and techniques.

We must not allow the irresponsible misrepresentation of the risks of using public health pesticides. Instead, we must promote the lesser risk that results from preventing the establishment or spread of a mosquito-borne disease. We must emphasize that products are legally dispensed at a 1,000-fold less dosage than would harm health or the environment. Also, the extremely small droplet aerosols are designed to impinge and kill on-the-wing mosquitoes and degrade easily, leaving little or no residue. Low application rates, generally less than 4 grams of active ingredient per acre, ensure minimizing adverse impacts. An integrated approach to mosquito control utilizes surveillance, source reduction, personal protection, and chemical and biological control. An integrated mosquito management approach diversifies mosquito control methods to exploit the vulnerabilities of mosquitoes at all life stages to better protect health and the environment.

I hope you can join us for the 45th SCMCA Annual Meeting on November 1-3, 2017, at the Ocean Drive Beach and Golf Resort in North Myrtle Beach, SC. As always, we thank our regular and sustaining members for their support of the association.

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Save the Date

SCMCA
45th Annual Meeting
North Myrtle Beach, SC
November 1-3, 2017

2017 SCMCA Sustaining Members

Thank you for your time and contributions!

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SCMCA Regions

In which region is your county?

Upper Region: Shannon Williams

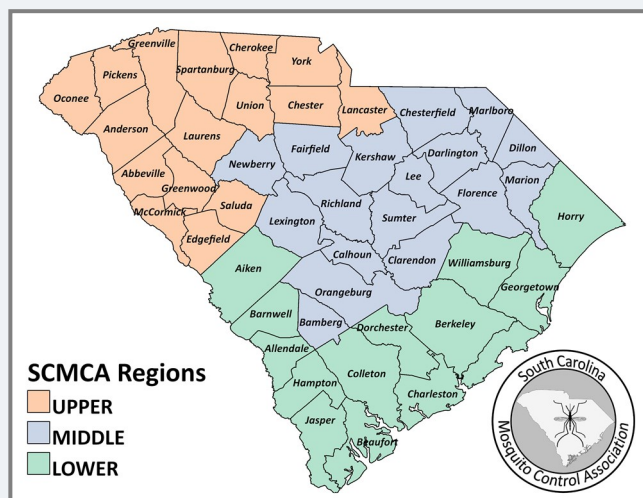
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2017 SCMCA Annual Meeting

Ocean Drive Beach and Golf Resort

Join us November 1-3, 2017 in North Myrtle Beach for the
45th SCMCA Annual Meeting!

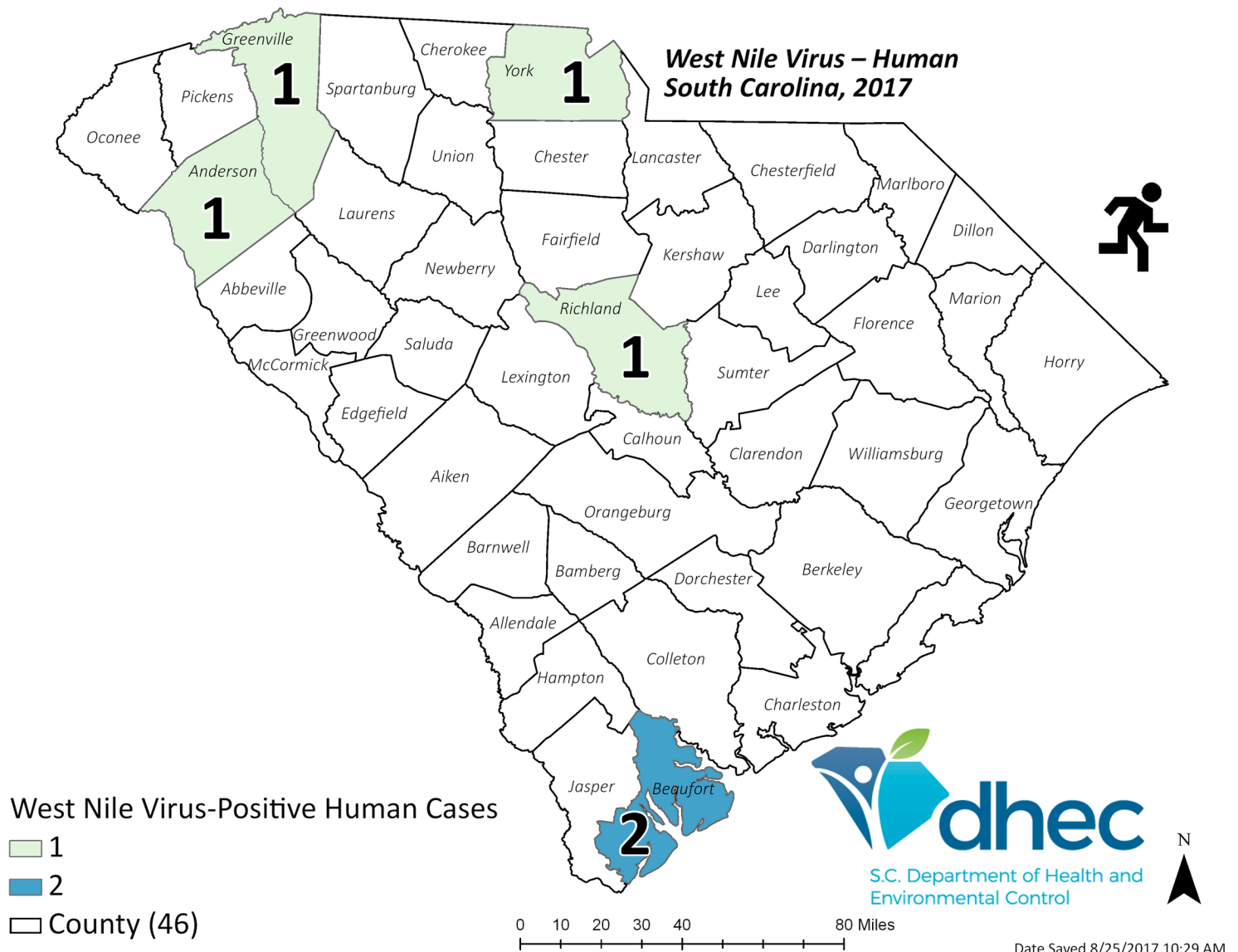


Agenda and registration coming soon! Check the [SCMCA website](#) for details.

2017 South Carolina Arbovirus Activity

(Updated 25 August 2017)

WNV - Humans

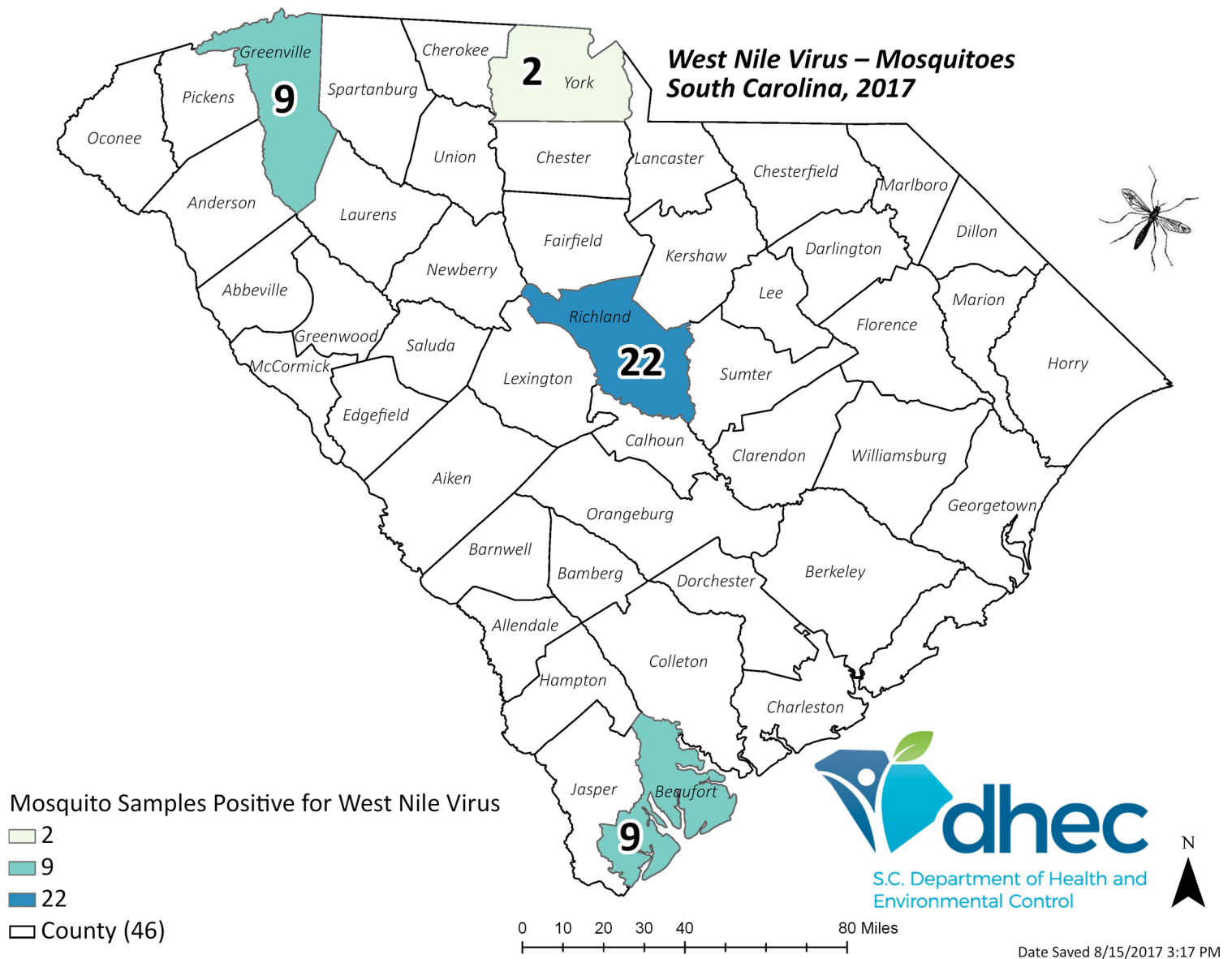


[Click to be linked to SC DHEC Arbovirus Activity webpage for updates](#)

2017 South Carolina Arbovirus Activity

(Updated 25 August 2017)

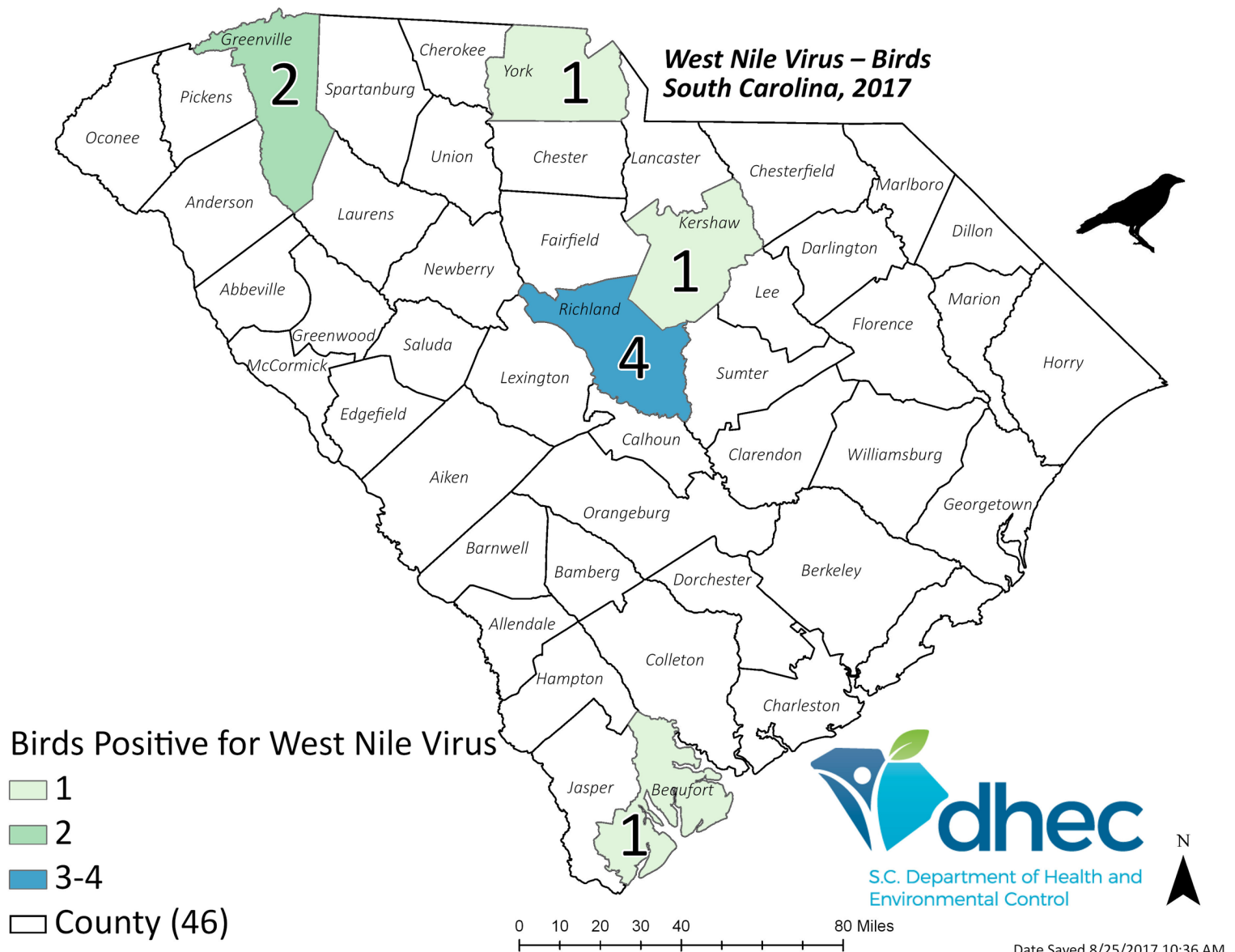
WNV - Mosquitoes



2017 South Carolina Arbovirus Activity

(Updated 25 August 2017)

WNV - Birds

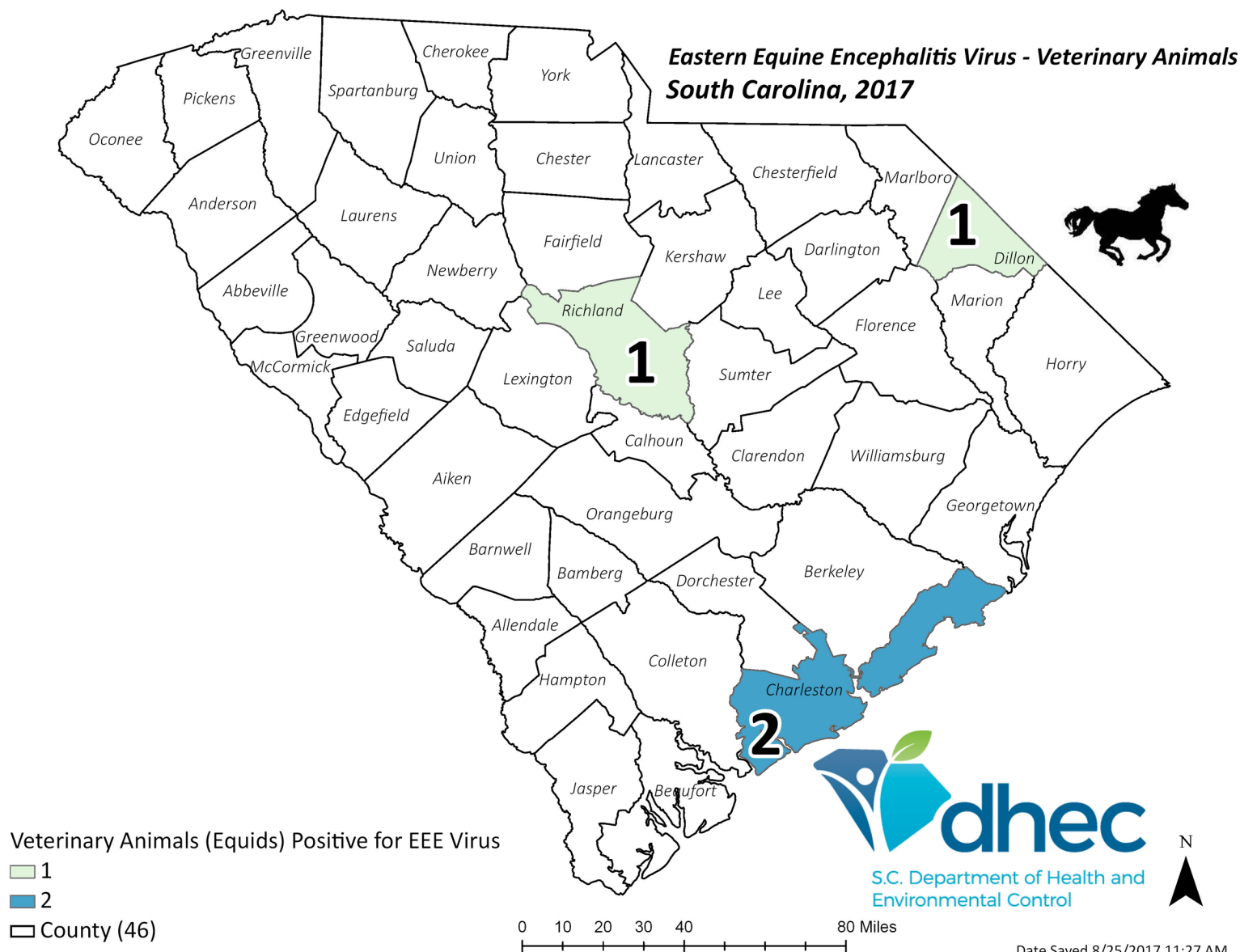


[Click to be linked to SC DHEC Arbovirus Activity webpage for updates](#)

2017 South Carolina Arbovirus Activity

(Updated 25 August 2017)

EEE - Equids



[Click to be linked to SC DHEC Arbovirus Activity webpage for updates](#)

Mosquito Control Program Updates

Middle Region

City of Hartsville, SC

Arnold Floyd

Here in Hartsville, we are going to be finishing our larviciding next week. Our trapping numbers seem to be lower than last year, but the temperatures here have fluctuated a lot around trapping dates. We have started a public education program to get more information to the people. On 4/27/17 we participated in a Health Fair at Coker College to teach the students about Zika and our program. On 5/3/17 we taught our city employees at our city employee Safety Fair. In addition, coming up on 5/13/17 we will be at Hartsville's Down Town Market Place to teach the public about how they can help. We will be giving away larvicide tablets and mosquito repellent as long as they last at this event.

Lexington County, SC

David Mitchum

Here in Lexington County we are gearing up for a busy mosquito season and calls are starting to come in. Over the last few weeks, because of the recent rains we have treated several locations breeding a high count of mosquito larvae that hadn't breed mosquitoes in a while. We have been busy treating some new locations too. Educating the public on how they can help control mosquitoes on their property can be a challenge, but I know it helps because over the years our complaints have gone down. On the bright side, we have a new chemical storage shed. We have been waiting for this for a long time. Our new chemical storage shed is built of steel, has its own containment base built into the floor, florescent lighting and oh yes, air conditioned. (see photo attachment). As for the mosquitoes, we will continue the fight against these aggravating unwanted pest. That's all for now.

Richland County, SC

Tammy Brewer

Somehow we missed winter... we had a few cold days, but we just jumped straight into spring and a flurry of activity to begin the year. We participated with some trainings – Tammy Brewer attended MAMCA at the beginning of February, all full-time staff attended the DHEC Zika Workshop in Columbia, and all staff attended the Clarke Workshop. Trey English did the droplet slides at our annual ULV Round Up. Tammy has been in touch with three local beekeeping associations in our area and provided presentations at their monthly meetings to help maintain open lines of communication. In mid-March, after assisting with a new beekeeper field training class, Tammy was stung by a bee getting in her car to leave. Her reaction to the sting became progressively worse & within 3 days she was in the hospital for treatment. She is no longer able to keep bees. Her hives have now taken up residence at the Hager's farm. We have begun West Nile Surveillance as well as our routine surveillance routes. Katherine Sandel & Caleb McBride provided Career Day presentations at three elementary schools before Caleb left. He is no longer involved with mosquito control and moved on to do building inspections. Katherine and Olin Towery will be working together at the upcoming Richland Recycles event at the Fairgrounds on May 12th. We are mostly through the process of filling Caleb's vacancy and hope to have the "new" employee on board by May 15th. We have hired two seasonal employees, we welcomed Alicia Walker today and look forward to Marcus Moody's arrival on the 15th. Just 2-3 more to go! It also appears that Katherine may be departing very soon. In addition to our staff changes, Richland County is restructuring and is combining Vector Control with Animal Care to create the Animal Services Department. We are all looking forward to the upcoming Summer Workshop and hope to see you there!

Mosquito Control Program Updates Cont.

Santee Cooper Vector Management

Raymond Clark

The Vector Management Unit has been hard at work preparing for yet another promising unpredictable mosquito season. We have had warmer than normal temperatures, but just enough rainfall to keep some woodland pools filled, ditches and low lying areas. Recent thunderstorms has allowed an accumulation of surface water, high lake levels and a steady growth of new vegetation.

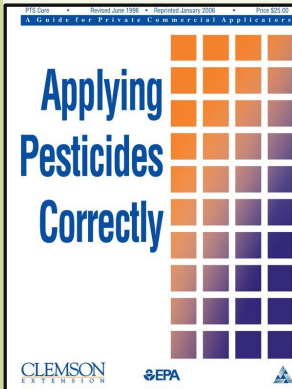
Crews on the upper and lower lakes have been busy for what may be a very active season, while doing Source Reduction and keeping up with larviciding. ULV spray machines have been mounted on trucks, calibrated for flow rate and droplet size, and we are ready for action.

An early season surveillance throughout the system has revealed an increase in lake levels, this raises concerns that the numbers of Anopheles and Aedes may elevate. But, our crews are a proactive unit, ready for what this season will bring.

Obtaining a Non-Commercial License for Mosquito Control

Chris Evans, MS, PhD

In order to obtain a Category 8 Public Health Pest Control License, you must obtain training materials prior to taking the exam. No classroom instruction is provided.



The two manuals needed are: (1) Core Manual – Applying Pesticides Correctly (PTS CORE), \$25; and (2) Category

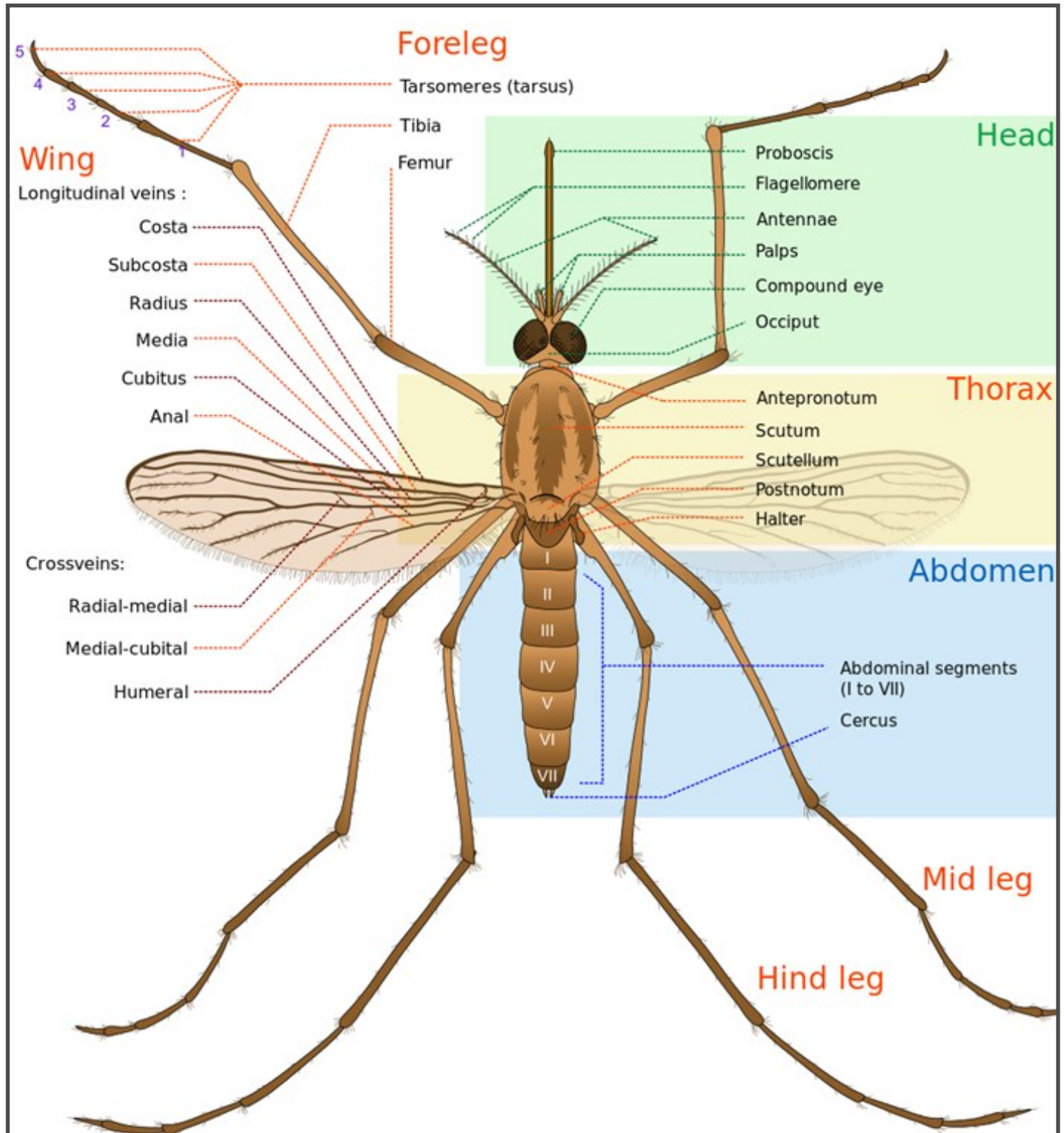
8 – Public Health Pest Control (PTS8-SR18), \$15. Order the manuals online at <https://clemson.edu/dpr>, click “Exam Information” on the right, then under “Exam Information for SC Applicator’s License” click, “Order Exam Study Materials Online.” These manuals can also be ordered by phone from the Clemson University Bulletin Room: (864) 656-3261 or (888) 772-2665. The exam fee for the Core + Category 8 is \$100. Each additional category is \$50. Before taking the exam, you must pre-register with the Clemson University



Department of Pesticide Regulation (864-646-2150). Specifically, you should contact Holly Lizotte (Phone: 864-646-2164; E-mail: hlizott@clemson.edu) to pre-register. You must provide your name, address, phone number, social security number, and the name of the exam (Category 8). You will be given an Identification Number. The exam location, date, and time will be set up during the pre-registration process. Directions to the testing center will be provided.

The exam is taken on a computer, and it is offered at testing centers around the state. The exam will cover the core principles of pesticide labels, environmental factors, pest and pesticide knowledge, pesticide laws, pesticide equipment and application techniques, and safe pesticide use, as well as knowledge specific to Public Health Pest Control. The results are known immediately upon completion of the exam.

Mosquito Morphology



Mistaken Identities: Insects Commonly Mistaken for Mosquitoes

Crane Flies (Tipulidae)



Crane Flies (Tipulidae) are delicate insects varying in size from ¼ inch to as large as 1½ inches in length. The largest crane flies are sometimes called "daddy-long-legs", "gully nippers", or "mosquito hawks". However, they do not bite people and they do not eat mosquitoes. Some species of crane flies emerge from aquatic sources and others from terrestrial or decaying vegetation sources. Crane flies are not predacious and usually many times larger than a typical mosquito. Adults are strongly attracted to porch lights. The larvae live in loose soil or organic matter and feed on the roots of plants.

Midges (Chironomidae)

Midges (Chironomidae) are the most wide spread and numerous insects resembling mosquitoes. Adult Midges are commonly observed flying in swarms or "clouds", or are seen resting on fences, walls, under eaves and in protected areas such as porches and entryways. Individual adults will live about seven days depending upon the species and weather conditions. The larvae develop in sources having extensive areas of standing water.



Fungus Gnats (Sciaridae)



Fungus Gnats (Sciaridae) are small (about ¼ inch long), black flies commonly found around decaying vegetation. They have large wings and long antennae, but they are weak flyers and do not move far from the breeding site. Fungus gnats occasionally become a nuisance indoors when adults emerge in large numbers as mosquito-like insects from potted plants or flower boxes containing damp soil rich in humus. Adults are attracted to lights and are often first noticed at windows. may live about 2 weeks.

Dance Flies (Empididae)

Dance Flies (Empididae) appear like mosquitoes by the way they swarm in sunlit areas in backyards and other sheltered situations. The vertical movements of the swarming adults gives them their common name. Several of the Empis species are "balloon makers." That is, the male flies capture an insect and enclose it in a frothy bag that they carry as a lure to entice the female to mate.



Wood Gnat (Anisopodidae)



Wood Gnats (Anisopodidae) are some of the better known gnats, for they are attracted to light and can be found near windows, especially in spring time. The adults can be found all year long, though. The larvae live in rotting plants and rotting plant parts, fermenting sap, animal manure, tree trunks, mud and sometimes sewage. Adults are found on foliage in or near damp places, some are found around flowing sap. They are sometimes seen in small swarms.

American Mosquito Control Association (AMCA) <http://www.mosquito.org/mistaken-identities>

Species Spotlight: *Culex salinarius* Coquillett, 1904

Salt-marsh *Culex*



Description: Adults are medium-sized, brown mosquitoes with patches of pale scales on the thorax and abdomen. Abdominal segments have lateral patches of pale bronze-colored scales basally, and some segments have a narrow band of bronze-colored scales. Abdominal segments 7 and 8 are covered in pale bronze-colored scales, sometimes described as “dingy yellow.” Females of *Culex salinarius* are most likely to be confused with those of *Culex nigripalpus*. *Culex salinarius* has a prominent patch of pale scales on the mesepimeron, whereas *Culex nigripalpus* does not.



Photos: Nathan Burkett-Cadena



Adults: *Culex salinarius* reaches its greatest abundance in coastal areas (and is sometimes called the “salt-marsh *Culex*”) but also occurs inland. *Culex salinarius* adults are frequently found resting during the daytime in outbuildings and other similar shelters. Adult females feed on the blood of mammals and birds. Adult females will host seek within the first 2 or 3 hrs after sunset, but may be active just before sunrise. Flight range is 0.5-5 miles.

Larvae: Larvae are most commonly found in densely vegetated areas of freshwater impoundments and coastal marshes. They are rarely found in large numbers in the open salt marsh and are capable of breeding in purely fresh water. They develop early in the season and their populations build throughout the summer

Medical Importance: *Culex salinarius* is considered to be a “bridge vector” of West Nile virus (WNV), eastern equine encephalitis (EEE), and St. Louis encephalitis (SLE), transmitting the virus from birds to humans and horses.



Burkett-Cadena ND. 2013. Mosquitoes of the southeastern United States. Tuscaloosa, Alabama: University of Alabama Press.

Crans, W.J. n.d. *Culex salinarius* Coquillett. <http://vectorbio.rutgers.edu/outreach/species/sp11a.htm>. Rutgers University

2017 SCMCA Summer Workshop



Stacy Harris (City of Columbia) helping with Summer Workshop registration



SCMCA President, Dr. Chris Evans opening the workshop.



Robert Cartner explaining how to use BG Sentinel traps.



Jeff Hottenstein and Candace Royals demonstrating the Buffalo Turbine. This machine was used extensively during the Zika virus outbreak in Miami, FL.



Robert Cartner explaining how to use BG Sentinel traps.



Jeff Hottenstein demonstrating the Buffalo Turbine.

2017 SCMCA Summer Workshop cont.



Joe Strickhouser discussing pesticide application, safety, and how to read a pesticide label.



Tammy Brewer discussing the importance of protecting honeybees and how beekeepers and applicators can

2017-2018 Calendar of Events

Date	Meeting/Event	Venue	Location
October 9-10, 2017	AMCA Train the Trainer Workshop, NC	Courtyard Marriott	Carolina Beach, NC
October 18-20, 2017	Georgia Mosquito Control Association 40th Annual Meeting	UGA Center for Continuing Education	Athens, GA
Nov 1-3, 2017	South Carolina Mosquito Control Association 45th Annual Meeting	Ocean Drive Beach and Golf Resort	North Myrtle Beach, SC
November 12-15, 2017	Florida Mosquito Control Association 89th Annual Meeting	Hawks Cay Resort	Duck Key, FL
February 12-14, 2018	2018 Joint MAMCA-NCMVCA Annual Meeting	Courtyard Marriott	Carolina Beach, NC



Web Resources

Resource	Website
American Mosquito Control Association	http://www.mosquito.org/
CDC Division of Vector-Borne Diseases	http://www.cdc.gov/nceid/dvbd
Clemson University CEU Search (See <i>your</i> information)	http://regfocus.clemson.edu/dpr/ncommercial.htm
Clemson University Cooperative Extension Beekeeping	http://www.clemson.edu/extension/beekeepers/
Clemson University Department of Pesticide Regulation	http://regfocus.clemson.edu/dpr/
EPA Insect Repellents: Use and Effectiveness	http://cfpub.epa.gov/oppref/insect/
Florida Medical Entomology Laboratory (+ID Guide)	http://fmel.ifas.ufl.edu/
Florida Mosquito Control Association	http://www.floridamosquito.org/Home/
Mid-Atlantic Mosquito Control Association	http://www.mamca.org/
NC Mosquito and Vector Control Association	http://www.ncmvca.org/
SC DHEC Mosquitoes in South Carolina	http://www.scdhec.gov/mosquitoes
SC DHEC Reporting Dead Birds in South Carolina	http://www.scdhec.gov/birdtesting
Society for Vector Ecology	http://www.sove.org/
South Carolina Aquatic Plant Management Society	http://www.scapms.org/
SC Bee Keeper Association (Local assoc. links)	http://www.scstatebeekeepers.org/
SC Mosquito Control Association	http://www.scmca.net/
USGS (Arbovirus Disease Maps)	http://diseasemaps.usgs.gov/mapviewer/

Zika Virus Resources

CDC | Zika Virus Information | <http://www.cdc.gov/zika/>

CDC | Vector Surveillance and Control | <http://www.cdc.gov/zika/vector/index.html>

CDC | Zika Virus Action Plan Template | <http://www.cdc.gov/zika/public-health-partners/risk-based-prep.html>

CDC | Zika Virus Fact Sheets and Posters | <http://www.cdc.gov/zika/fs-posters/index.html>

CDC | Zika Virus Infographics | <http://www.cdc.gov/zika/comm-resources/infographics.html>

SC DHEC | Zika Virus Information | <http://www.scdhec.gov/zika>

SC DHEC | Fact Sheet: Controlling Mosquitoes Around the Home | <http://www.scdhec.gov/mosquitoes> > "Protect Yourself / Your Home"

World Health Organization | Zika Virus Information | <http://www.who.int/topics/zika/en/>

"Recognizing its importance, *Aedes aegypti* should be studied as a long-term national, regional, and world problem rather than as a temporary local threat to the communities suffering at any given moment from yellow fever, dengue or other *aegypti*-borne disease. No one can foresee the extent of the future threat of *Aedes aegypti* to mankind as a vector of known virus diseases, and none can foretell what other virus diseases may yet affect regions where *Ae. aegypti* is permitted to remain." — Fred Lowe Soper, Building the Health Bridge: Selections from the Works of Fred L. Soper



SOUTH CAROLINA MOSQUITO CONTROL ASSOCIATION, INC.

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MEMBERSHIP APPLICATION

NAME:

ORGANIZATION:

ADDRESS:

WORK PHONE:

FAX:

E-MAIL:

TYPE OF MEMBERSHIP/ DUES (Renewal due at Annual Meeting)

Active Member	\$ 10.00
*Sustaining Member	\$150.00

***Includes one active membership**

Please make checks payable to SCMCA and return to Olin Towery at the address above.

For Office Use Only:

Region: Upper / Middle / Lower

Amount Paid \$ _____ Date Paid: _____ ☐ Check # _____ ☐ Cash

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SCMCA – Promoting Mosquito Control in South Carolina

The Landing Rate Count

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c/o Richland County Vector Control
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Columbia SC 29204

PLACE
STAMP
HERE