

The Landing Rate Count

www.scmca.net

Newsletter of the South Carolina Mosquito Control Association

April 2018–Vol 44 • Issue 2

Editor: Trey Reed

The President's Message

Robert Cartner

Happy Spring! I hope you all have been enjoying the warm weather. We had quite a storm recently, but we're no strangers to April showers, so I'm sure everyone is geared up for what the rain and warm weather will inevitably bring us soon, if not already. We have the unique duty to protect our community from a threat that is both cryptic and evasive. As the experts in your field, you are in a position to ensure that the public is educated and well-informed about these threats. West Nile virus was active throughout South Carolina in 2017, so we must remain diligent and thorough in our activities this year.



**Robert Cartner -
2018 SCMCA President**

As you will no doubt read in this issue, there is a fantastic article written by Joe Andrews that highlights the struggles of living a life devastated by West Nile virus. He brings to light the importance of operating a mosquito control program based on the principles of Integrated Pest Management (IPM). The most important steps, education and prevention, are also the least expensive.

The 2018 SCMCA Summer Workshop is right around the corner, June 7, 2018, so make sure you register to save a spot. There will be some very interesting breakout sessions that you will not want to miss. A tentative agenda is included in this issue and you will also find one on our website, www.scmca.net. Lunch will be catered by Music Man.

Don't forget that National Mosquito Awareness Week is June 24 – 30, so start planning ways that your program can better educate the public about mosquito-borne disease. This is also a good time to highlight your strengths as a mosquito control program.

Start planning now to attend the SCMCA 46th Annual Meeting, November 7-9, in beautiful Greenville, SC. We have some great events and presentations planned, but more on that later in the year.

I want to thank our Sustaining Members for their continued support of the Association. See the SCMCA website as well as the following pages for a list of our Sustaining Members.

I'll see you all at the Summer Workshop!

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Save The Date

**SCMCA
Summer Workshop**
Pinopolis, SC
June 7, 2018

**SCMCA 46th Annual
Meeting**
Greenville, SC
November 7-9, 2018

2018 SCMCA Sustaining Members

Thank you for your time and contributions!

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2018 SCMCA Sustaining Members, continued

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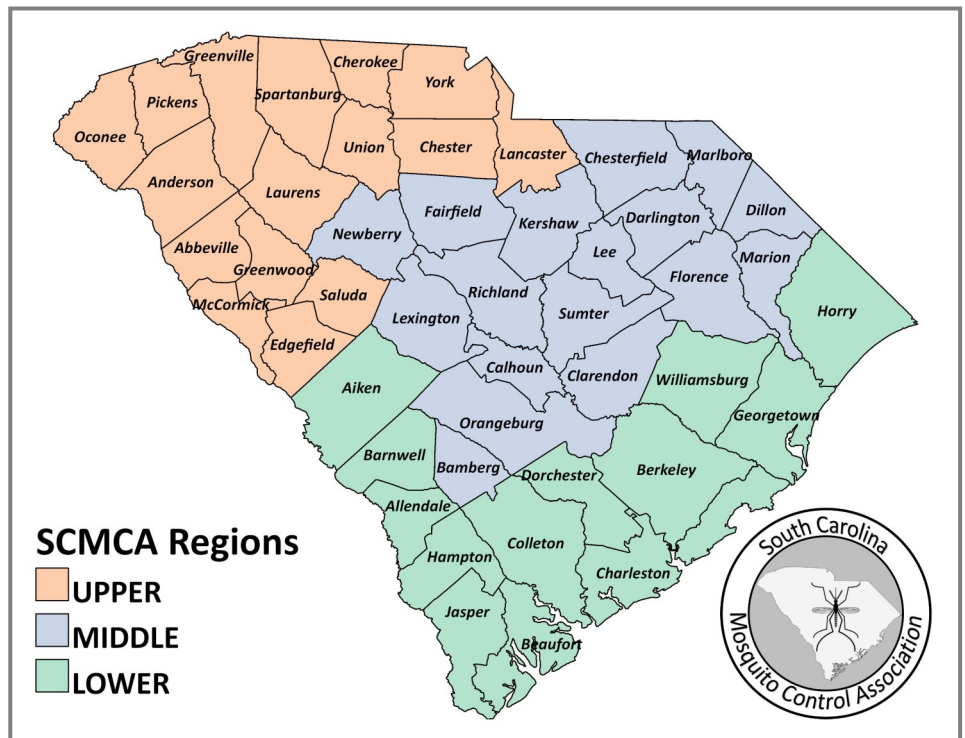
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Lower Region: Raymond Clark

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Attention Mosquito Control Program Supervisors!

We want to recognize mosquito control employees that are retiring in 2018. Please email a list of names with their retirement date to Olin

Towery at ToweryO@rcgov.us



Mosquito Control Program Updates

Upper Region

City of Greenwood, SC

The cooler weather has kept things fairly quiet so far in 2018. Mosquito levels were about normal in 2017, but not as busy as they were in 2016. The City of Greenwood may try a reverse 911 option this year to inform the public about spraying events. In mid-April we will begin putting out briquettes in standing water around the city, and once the weather warms up, we will begin spraying based upon calls that come in. When a call comes in, the City of Greenwood likes to respond with a visit to the property to not only look for potential breeding habitats, but also help educate the property owner on ways to reduce mosquito populations around the property. Staff also like to give homeowners an educational refrigerator magnet that has mosquito tips and a number to call. The program is trying out a new fogger that uses GPS to track where employees spray, and trapping with their newly received BG Sentinel II traps will begin soon.

City of Fountain Inn, SC

Lori Cooper with the City of Fountain Inn stated that there are no new updates to report. However, they have ordered Biomist and will start spraying when the weather warms up and the wind is not blowing. She stated that they usually spray once a week once warmer weather arrives and mosquito season starts. Lori also mentioned that the City of Fountain Inn was pretty active with spraying in 2017 and still continued to spray every week of the mosquito season.

City of Edgefield, SC

There are no new reports or developments per David Coleman with the City of Edgefield. He also stated that there has been no activity so far this year, but that they have only had a couple of warm days. Mr. Coleman reported normal activity for the 2017 season and that they also had fewer complaints during the 2017 season. Before the weather warms up, he will begin prepping for the 2018 season by testing and calibrating his spray machine.



Greenwood County, SC

Stephen Creswell has been with Greenwood County for 12 years, he's married with two daughters. He's been a very important asset for them during that time not only for mosquito related issues, but the job as a whole. The knowledge he has acquired and shares with the public on mosquito control is extensive and makes the job easier for his fellow coworkers by giving them someone to turn to if they have questions themselves.

Mosquito Control Program Updates

Middle Region

Calhoun County, SC

Calhoun county just began larviciding for the season.

City of Columbia, SC

We have been using the grant money given to us by DHEC to buy the tools necessary to start our own disease response program. We will officially start larvaciding later this month (TBA). Stacy Harris has set up our first batch of “stink” water so that we can begin surveillance and trapping in areas known for WNV. We have also been utilizing our police department’s Front Porch Roll Calls to give out mosquito relevant information and kits. The officers meet several times a week in neighborhoods so that the community can get updates on what is going on in their area. We use that time to discuss property maintenance and the importance of cleaning up water holding containers. Michael O’Neill and Rick Blackmon have also obtained their Core and Cat. 8 licenses. We look forward to seeing everyone at the Summer Workshop!

Lexington County, SC

In Lexington County, we are gearing up for the 2018 mosquito season. The ULV truck is ready to go. We have been treating ditches around Lexington County to help alleviate the potential hordes of mosquitoes that we would have encountered if not for the excellent mosquito larvicides and pupicides available.

So far this year the calls have been trickling in, but I know that in a couple of weeks that will change.

For counties that border Lexington County, if a resident who lives in our county mistakenly contacts your office for a mosquito issue, you can have them contact us at 803-785-8440. If we are not in, please let them know to leave their contact information and we will return their call as soon as possible.

Richland County, SC

We recently finished filling our full-time vacancies. We welcomed Rachel Malampy on 1/8/18 as an Environmental Field Coordinator, and Adriane Allen on 2/5/18 as our Administrative Support. Both ladies have been immersed in various trainings and preparing for the upcoming season. Tammy Brewer attended the MAMCA meeting at Carolina Beach in mid-February. Most of our staff were able to attend the Clarke Workshop in downtown Columbia on February 22nd . Tammy & Rachel attended the Mid-State Beekeeper’s monthly meeting in early March, and provided a presentation about mosquito control & beekeepers working together. They stressed the importance of keeping open lines of communication. They also did their first school career day event at Sandel Elementary, and have at least two more educational events for students scheduled. On March 22nd, we had our Annual ULV Round Up with Trey English doing the droplet slides. Tammy is in the process of completing the Zika Grant paperwork update. We are purchasing a thermal fogger, pesticide, and a backpack sprayer with the funds. We have begun West Nile Virus surveillance and are hoping for a much quieter year than last year. Olin Towery will soon be completing Advanced Supervisor training, and we are in the process of hiring our seasonal staff. Fortunately, this has been a little drier spring than usual for us, which has kept the calls a little lower than normal.

Mosquito Control Program Updates

Lower Region

Charleston County, SC

The 2018 mosquito season has started slow for our program. Currently, the County is experiencing below-normal rainfall and temperatures that have resulted in very little mosquito activity. Helicopter operations conducted over tidal and dredge disposal sites have produced only a few areas that required treatment as well as a few locations that were discovered by ground crews. Our spray truck drivers have moved to night shift to ensure they are ready when needed, and weekly New Jersey light trapping has begun. Our 2018 Citizens Awareness Program reached over 2,000 homes in February as we work to educate the citizens on mosquito issues and how best to resolve them. We have hired an entomologist to expand our ability to test products and mosquitoes in the coming year. All equipment has been refurbished, and our program is ready for the coming mosquito season.

Georgetown County, SC

Georgetown County will be kicking off this season in style. Georgetown Mosquito Control inspectors Hollie Wicker and Victoria Smith are excited to begin moving into the new mosquito control/chemical building. The old building was built during World War II and served us well, but a new building was quite overdue. The new building is located on the Georgetown County airport grounds in a location that adheres to the new FAA guidelines, and it is constructed to meet the latest seismic and wind restrictions (basically a hurricane-resistant chemical storage building). The building consists of an office, a bathroom, a safety station, and special shelving to house all chemicals for land and aerial applications keeping it safe, organized, and efficient. Bays for three spray trucks, a forklift, and a tractor is currently being erected to finish off the project. Not only will the new building meet the new FAA regulations for structures located on airport grounds, but it will also provide the staff with a safe and efficient area to conduct the Georgetown County Mosquito Control program operations.

Horry County, SC

We are having a very active season receiving complaints since early February. We are also participating in the trapping program this year. We hosted a seminar the first week of March and had Robert Cartner from SCDHEC here along with the cities of North Myrtle Beach, Myrtle Beach, Conway, and Georgetown County. As always, Robert did an awesome job, and we learned a lot about the proper way to trap and collect mosquito samples. It's time to start larviciding, and we also will be distributing around 15,000 briquettes in subdivision catch basins. This year we have also designed pamphlets about EEE and West Nile virus to hand out (Mosquito Tech Nick Epps actually performs this task). Finally, we are remapping our bee sites—we have around 250 sites with multiple boxes at most of these locations.

Mosquito Control Program Updates

Lower Region (continued)

Santee Cooper

The Vector Management Unit has been aggressively preparing for the upcoming mosquito season. Source reduction is an on-going process and in conjunction with the pretreatment of briquetts distributed in low lying areas, has been completed. Lower-than-expected rainfall has contributed to an unseasonably low number of waterpools in common areas. This justifies a very spotty landing rate for this time of year. We are thankful to have a new member on the Upper Lake Crew, Mr. Rick Bennett. His starting position will be an Equipment Operator I. We are very happy to have him join our team and we know he will be an asset to the unit.

Chatham County, GA

Chatham County Mosquito Control (CCMC), although located in Georgia, services not only the Chatham County, GA area, but also the southern region of Jasper County, SC. Our main focus in South Carolina is the portion immediately along the Savannah River from the Savannah Wildlife Refuge to the marshlands and isolated coastal islands located at the mouth of the Savannah River. This area contains a number of chronic mosquito larval sites that includes old rice plantation sites, high marsh zones that are prone to spring tide flooding, and most importantly, several hundred acres of Dredge Material Containment Areas (DMCA's) that are frequently flooded during rainy weather or dredge operations within the Savannah River. Currently, plans are being formulated for source reduction work within portions of the DMCA for 2018. This work is carried out using large amphibious excavators (below) which allow these specialized pieces of heavy equipment to operate in this extremely silty environment without mats. CCMC creates a grid work pattern of ditches to help drain compartments quicker, and installs deeper reservoirs to help promote fish production on a rotational cycle.



Mosquito Control Program Updates

Chatham County, Ga (continued)

Other compartments are treated for mosquito larvae with rotary-wing aircraft when necessary. We use MD 500 helicopters that are calibrated to deliver sand treated with Altosid® SR 20 at one ounce/acre. The helicopters can easily maneuver these areas, have the ability to be remotely loaded (below) , and can treat even the larger DMCA's quickly. In addition, the helicopters are vital in our surveillance of these sites, as much of this area is not approachable in ground-based vehicles. Technicians are flown to these isolated sites and conduct larval inspection which determine if any of these sites are in need of treatment. Upon completion of these "aerial inspections," technicians return to the office and generate maps that accurately measure acreage and pinpoint treatment sites.

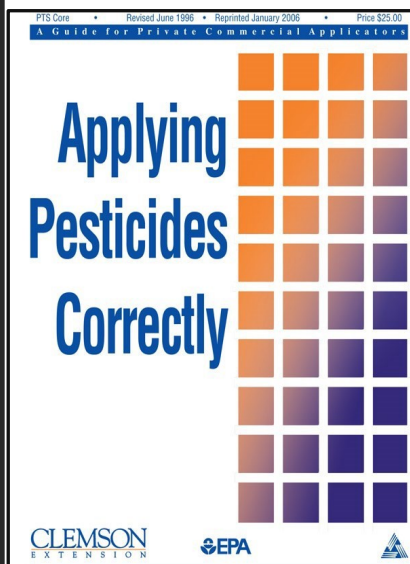
Surveillance for adult mosquito activity in South Carolina has been on-going since the first of February through the use of CDC light traps. These traps are fundamental in monitoring the salt marsh mosquitoes (*Aedes sollicitans* and *Aedes taeniorhynchus*) that originate from many of these South Carolina sites. These two species are our primary nuisance species during much of the mosquito season. However, so far in 2018, the rather cool temperatures and lack of substantial rains have kept things quiet in these South Carolina locations, although things will change rapidly as summer approaches!



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://clermson.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.



To County Vector Control Departments in the South Carolina Midlands:

Mid-State Beekeepers Association would like to make you aware of an asset at your disposal. Our organization has grown a great deal over the past several years and we have developed a large email database of area beekeepers. While not all inclusive, we have the ability to quickly send an email alert to our 285 dues paying members and to over 550 local individuals that subscribe to our monthly newsletter in Lexington, Richland, Calhoun and surrounding counties. Of course we encourage all of our active members to register their hives with their local Vector Control departments as a first line of contact should contact be needed.

However if, for any reason, you have a need to send an alert out to local beekeepers we would welcome facilitating that action for you.

Thank You,
scmidstatebees@scmidstatebeekeeper.org

South Carolina Mosquito Control Association Summer Workshop

Santee Cooper Somerset Recreational Building
2222 Pinopolis Rd, Pinopolis, SC 29469
June 7, 2018

- 🕒 9:00 – 9:30 Registration
- 🕒 9:30 – 9:35 Welcome and Opening Remarks
Robert Cartner - SCMCA President
- 🕒 9:35 – 9:45 Pesticide Efficacy Testing
Joe Strickhouser – Clarke Mosquito Control
- 🕒 9:45 – 9:55 Introduction to Drone Use in a Mosquito Control Program
Matt DuPont - Brunswick County Mosquito Control Program
- 🕒 9:55 – 10:55 Breakout Sessions
 - 🕒 Pesticide Efficacy Field Demonstration – Joe Strickhouser, Clarke Mosquito Control
 - 🕒 Drone Demonstration – Matt DuPont, Brunswick Mosquito Control
 - 🕒 Calibrating a Larvicider – Zane McAllister, Central Life Sciences
 - 🕒 Moskeet Trap Demonstration – Satish Cherukumalli, TrakitNow
- 🕒 10:55 – 11:15 Break
- 🕒 11:15 – 11:40 Recertification: How to Use the Clemson DPR Applicator Website, Finding CEU Courses, and Much More
Cecil Hernandez – Clemson Department of Pesticide Regulation
- 🕒 11:40 – 12:05 Groundwater Protection
Chenille Williams – Richland County Stormwater
- 🕒 12:05 – 12:35 Mosquito Habitat and Field Identification
Robert Cartner – SC DHEC
- 🕒 12:35 – 1:00 Integrated Pest Management
Tammy Brewer – Richland County Vector Control
- 🕒 1:00 – 2:00 Lunch
Music Man – Moncks Corner, SC

SCMCA | 400 Powell Rd | Columbia SC 29203

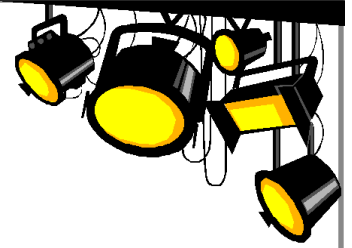
***The Summer Workshop has been approved for 3 CEUs this year -
1 core CEU and 2 in category 8.***

Email Olin Towery (toweryo@rcgov.us) to register.

******Note: Although there is no charge to attend the Summer Workshop, donations are welcomed. All donations will be used to help offset the cost of our caterer.******

Special Guest Editorial: Joe Andrews

I Wonder If Anyone Heard What I Just Heard



I have just returned from the annual American Mosquito Control Association conference held this year in Kansas City, MO. Every year includes a grand banquet with introduction, awards, and a keynote address, a welcome way to end the week of papers and talks. This year's address was given by a woman who has survived a neuro-invasive case of West Nile Virus.

Despite her survival, she is forever altered and complications will continue.

She is a preschool teacher who taught dance and had a vibrant, fun, and family-centered life; evidenced by the photographs flashing on the screen behind her. She began her story sharing the early signs of West Nile that mimic so many other ordinary illnesses. After going to the doctor and receiving a non-specific diagnosis, she was sent home. She continued, her symptoms grew worse and turned to another doctor, again she was sent home with pain medication and told to "tough it out."

Through all of this she was missing work and social outings and time with her family. Her suffering grew unbearable. After several weeks of pain and anguish and internet research she found an infectious disease specialist who had the right tools and information to diagnose her with West Nile Virus.

Weak, racked with pain, a headache so terrible she could no longer tolerate it, she had her diagnosis, but too late. Sadly, the damage had been done. Forced to wear sunglasses in the dim light of the banquet, her stance at the podium, and needing assistance to and from the podium all proved that her story is one of misdiagnosis.

During her speech, she mentioned that her nephew wants to be a mosquito control superhero. In fact, he looks forward to the mosquito control truck rolling through the neighborhood, every Tuesday.

Every Tuesday.

I wonder if anyone heard what I just heard. Yep! Every Tuesday, like clockwork, came the mosquito control truck.

I am sure you have all read the literature and attended the presentations that show, categorically, that West Nile vectors are most active on Tuesday evenings. I'd bet dimes to doughnuts that the mosquito control program in her area does not have the ability or the capability of surveillance. In this instance, ability is "to have the knowledge to do surveillance" and capability is "to have the budget to do so." This instance of misapplication and missed surveillance could also be interpreted as *misdiagnosis*.

Surveillance is a broad term meaning "to have an awareness of mosquitos and their pressures at a given time." It can be fancy or it can be simple. For many small towns it has to be simple to meet the ability and capability of the program. I am envisioning a public works employee who sprays for mosquitos on top of their myriad of responsibilities. Partnering with, or even communicating with, a larger district can increase the ability and capability of a smaller operation.

Imagine if the larger district two counties over had shared their knowledge on an increased risk of West Nile Virus. Imagine if that same district reached out in the off season to help the smaller operation understand the importance of surveillance and targeted application or how to setup a trap. Often times a small organization does not have the resources or knowledge to reach out when needed but should when needed, just as a larger organization should share with their neighbors in the spirit of public health.

I implore all reading this to continue to strive toward a public health stewardship. When told to spray in the afternoons explain why dusk would be better. When told to spray every Tuesday explain why regularly scheduled application may not be appropriate. Break it down to cost if you have to. Tell them that the nature of mosquito control lends itself to spraying at the right times on the right days (not necessarily Tuesdays) for maximum efficacy and efficiency.

If the woman at the beginning of this article didn't contract West Nile in her backyard, it could have been at the park while with her family. The misdiagnosis of her illness may have been related to the misdiagnosis of the mosquito control surveillance program in her area. Our mission should be to reduce the potential of transmission of vector-born disease. This state is blessed to have a deck loaded with vector management professionals, from our universities to the good ole boys who have been around the block more than once. Give 'em a holler and see what you can be doing better.

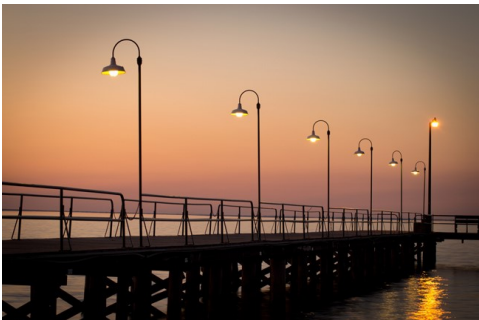


2018 Calendar of Events

Date	Meeting/Event	Venue	Location
June 7, 2018	South Carolina Mosquito Control Association Summer Workshop	Santee Cooper Somerset Recreation Building	Pinopolis, SC
June 24-June 30, 2018	National Mosquito Control Awareness Week	http://www.mosquito.org/meetingsevents	
Nov 7-9, 2018	South Carolina Mosquito Control Association 46 th Annual Meeting	Hilton Greenville Room Reservations	Greenville, SC
February 25, 2019	AMCA 85th Annual Meeting	AMCA Meeting	Orlando, FL
Continuous	AMCA E-Modules	E-Modules	

The AMCA Training Portal has E-Modules that all individuals within the mosquito and vector control industry can benefit from! Trainings are free for both members and non-members!

<http://www.mosquito.org/page/EModules>



Mark Your Calendars



June 7, 2018

SCMCA 2018 Summer Workshop

Pinopolis, SC

Email Olin Towery (toweryo@rcgov.us) to register.

*****Note: Although there is no charge to attend the Summer Workshop, donations are welcomed. All donations will be used to help offset the cost of our caterer.*****

Hope to see you all there!!

2017 Eastern Equine Encephalitis Events

Updated Wednesday, April 4, 2018

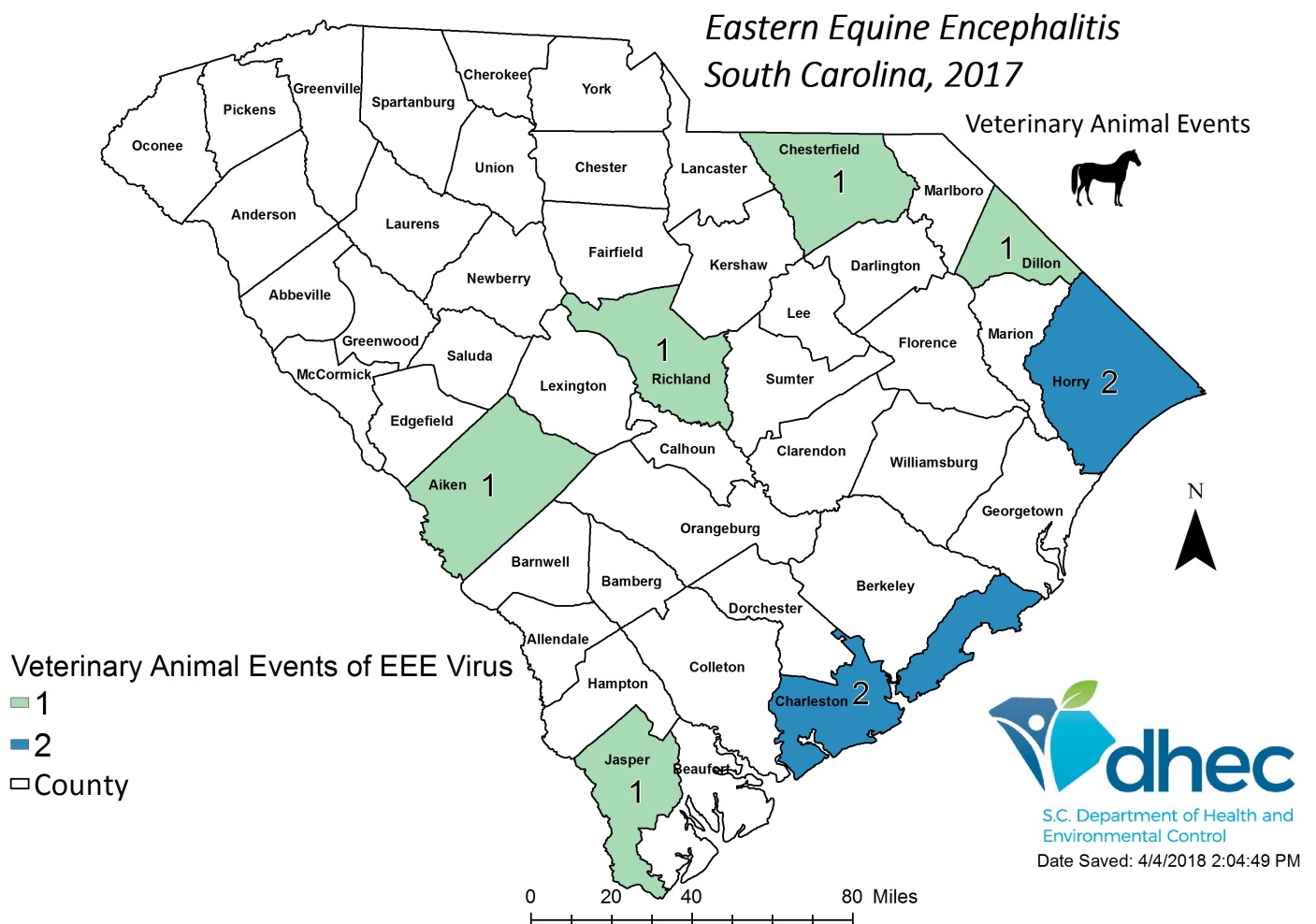
Eastern Equine Encephalitis (EEE) is a serious, mosquito-borne illness in horses that can also affect people. The freshwater swamp mosquito, *Culiseta melanura*, commonly known as the blacktailed mosquito, is the primary vector. A mosquito is capable of transmitting the virus 2 to 3 days after becoming infected with EEE virus. Infected mosquitoes that feed on both birds and mammals can transmit the disease to horses and humans. Eastern equine encephalitis (EEE) is a rare illness in humans, and only a few cases are reported in the United States each year. Most cases occur in the Atlantic and Gulf Coast states.

For more information, please visit the CDC website:

<https://www.cdc.gov/easternequineencephalitis/gen/ga.html>

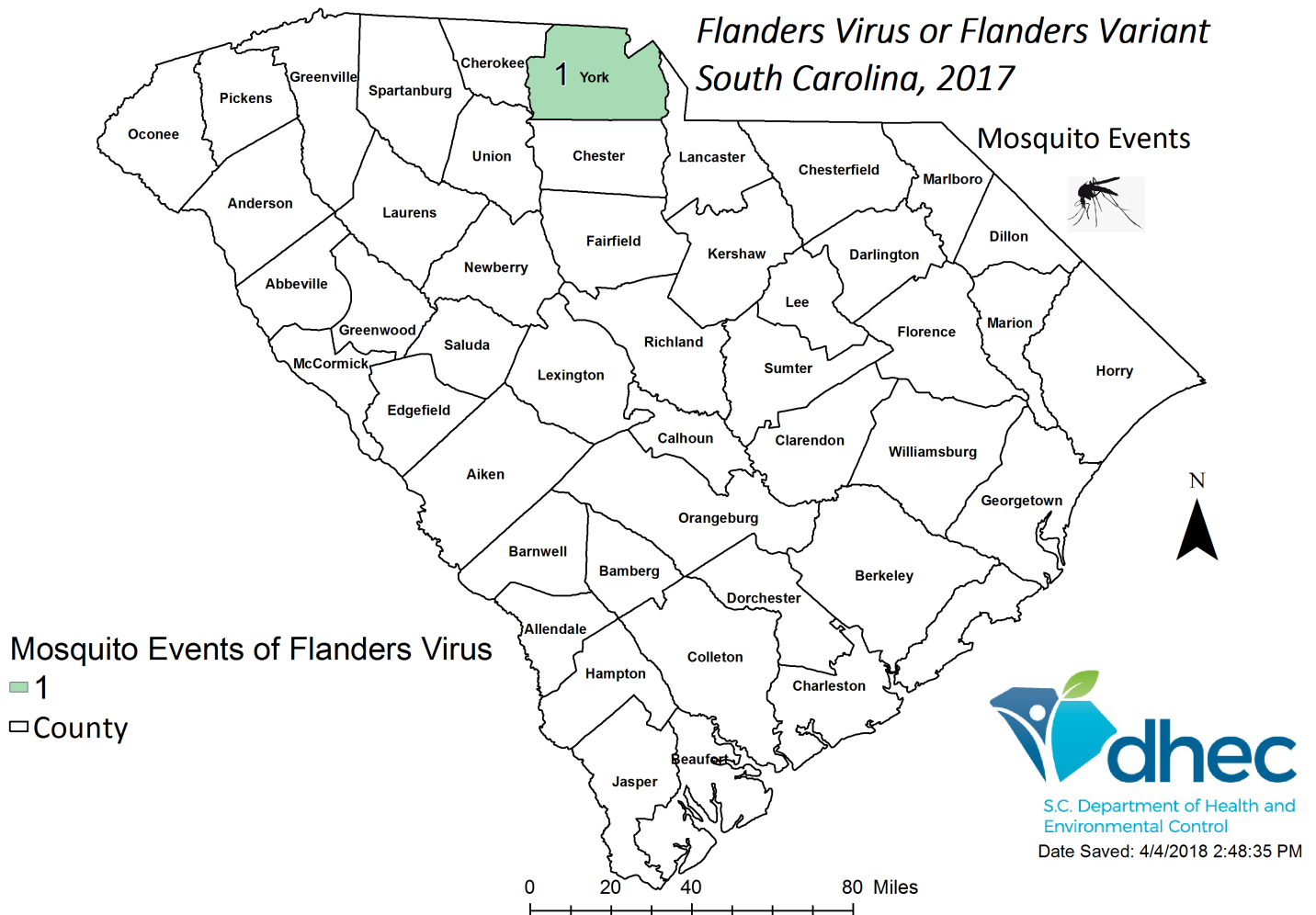
<https://www.cdc.gov/EasternEquineEncephalitis/>

<https://www.cdc.gov/easternequineencephalitis/tech/symptoms.html>



Flanders virus was discovered in 1961 in the town of Flanders on Long Island, New York. The virus is in the virus family Rhabdoviridae, and is widely distributed in Canada, the United States, and Mexico. Flanders virus does not cause disease.

The virus is frequently found in birds, such as Red-winged Blackbirds, House Sparrows, and Starlings. It is also found in bird-feeding mosquitoes, such as the black-tailed mosquito (*Culiseta melanura*) and the northern and southern house mosquitoes (*Culex pipiens* and *Culex quinquefasciatus*, respectively). Presence of the virus in an area serves as a sentinel or warning for West Nile virus and as a trigger for public health control and prevention interventions targeting West Nile virus.



A “mosquito pool” is defined as a collection of mosquitoes (usually 1 to 30 specimens) that were pooled together for testing purposes and consists of the same mosquito species that were collected from the same location on the same date.

2017 West Nile Virus Events

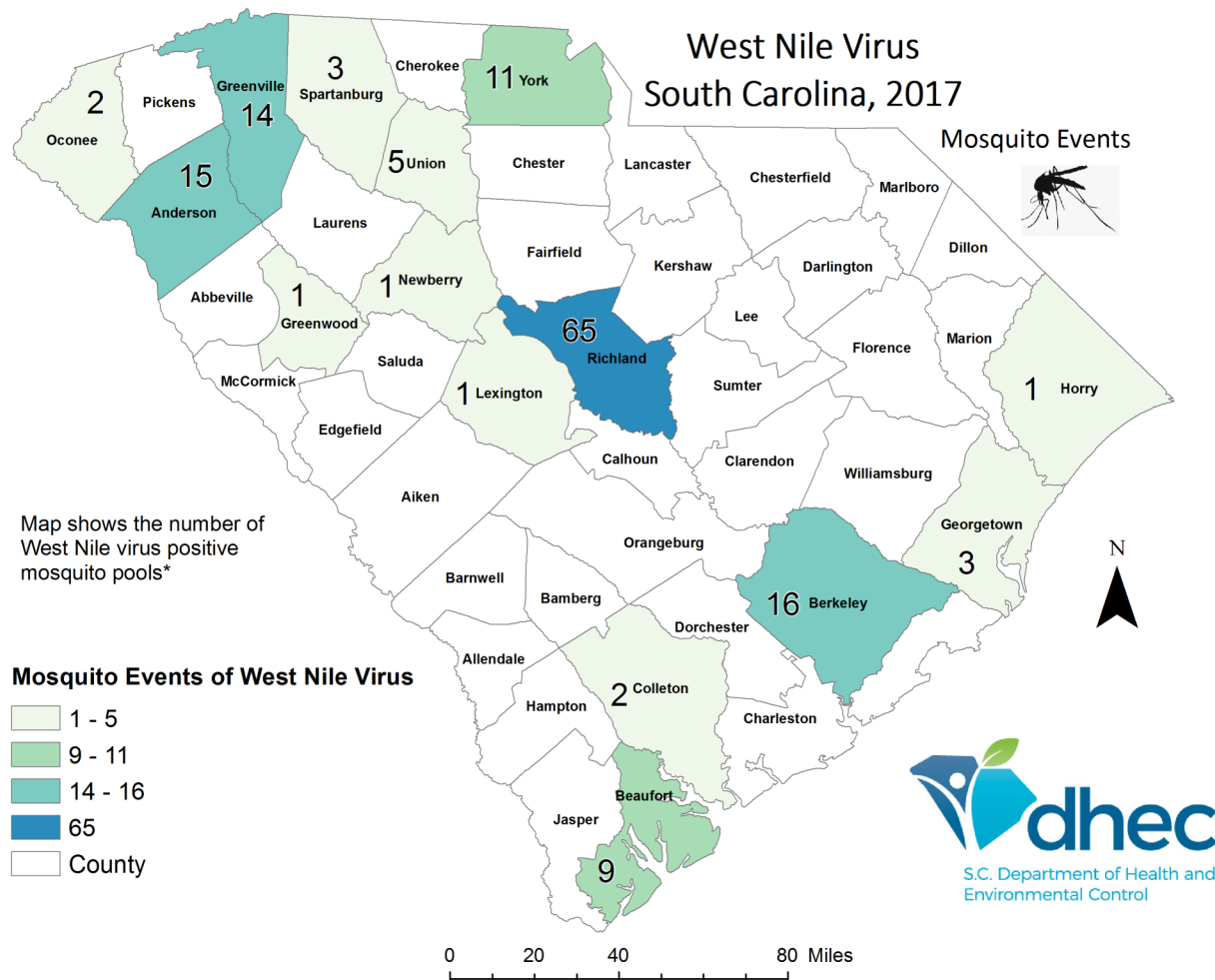
Updated Wednesday, April 10, 2018

Most people get infected with West Nile virus by the bite of an infected mosquito. Mosquitoes become infected when they feed on infected birds. Infected mosquitoes can then spread the virus to humans and other animals. In a very small number of cases, West Nile virus has been spread through blood transfusions, organ transplants, and from mother to baby during pregnancy, delivery, or breastfeeding.

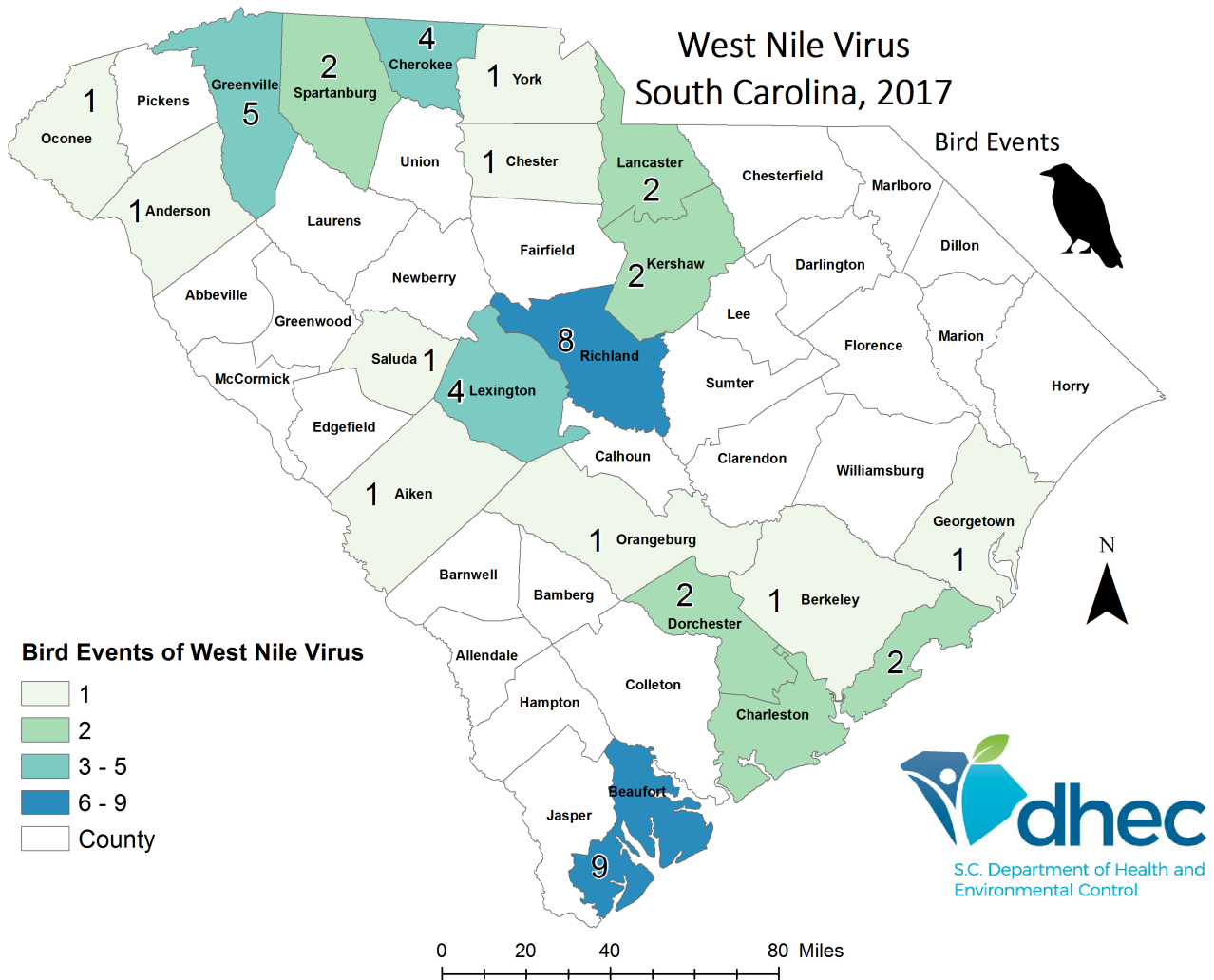
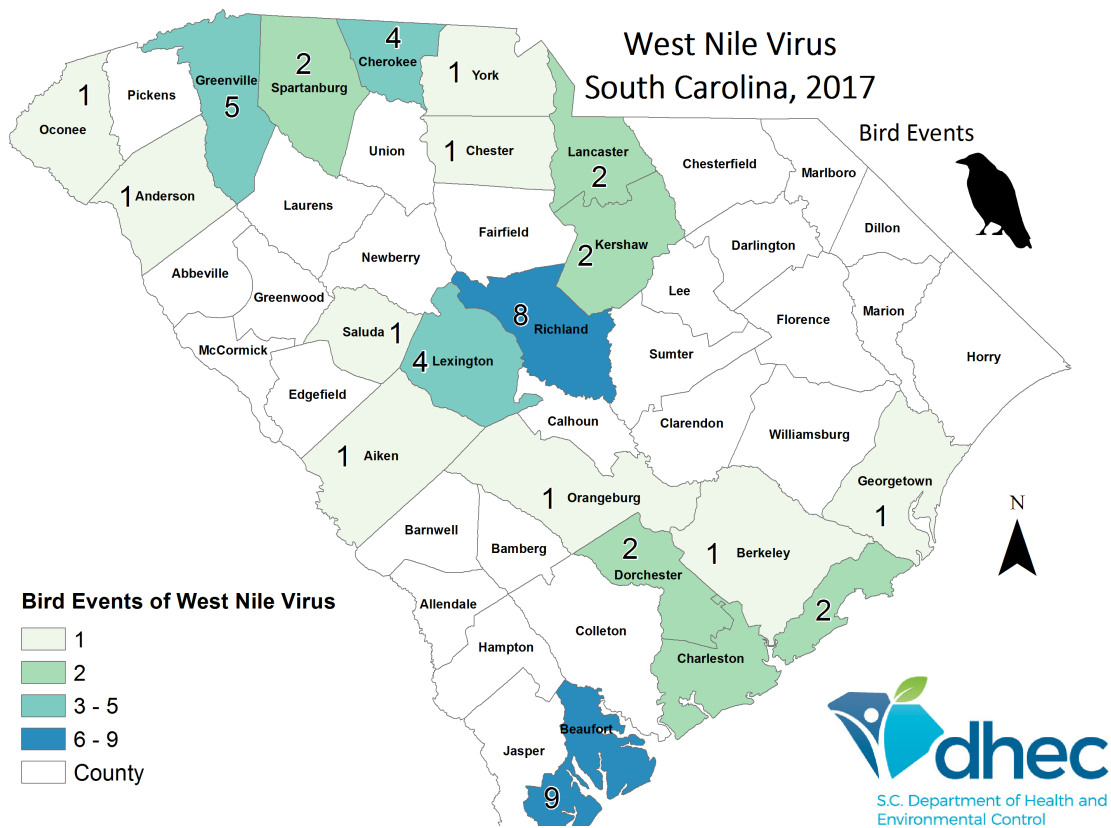
No symptoms in most people. Most people (70-80%) who become infected with West Nile virus do not develop any symptoms.

Illness with fever in some people. About 1 in 5 people who are infected will develop a fever with other symptoms such as headache, body aches, joint pains, vomiting, diarrhea, or rash. Most people with this type of West Nile virus disease recover completely, but fatigue and weakness can last for weeks or months.

Severe symptoms in a few people. Less than 1% of people who are infected will develop a serious neurologic illness such as encephalitis or meningitis (inflammation of the brain or surrounding tissues). The symptoms of neurologic illness can include headache, high fever, neck stiffness, disorientation, coma, tremors, seizures, or paralysis.



*A "mosquito pool" is defined as a collection of mosquitoes (usually 1-30 specimens) that were pooled together for testing purposes and consists of the same mosquito species that were collected from the same location on the same data.





Web Resources

Resource	Website
American Mosquito Control Association	http://www.mosquito.org/
CDC Division of Vector-Borne Diseases	http://www.cdc.gov/nceid/dvbd
CDC Zika Virus Information	http://www.cdc.gov/zika/
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	https://www.clemson.edu/public/regulatory/pesticide-regulation/
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
SC DHEC Zika Virus Information	http://www.scdhec.gov/zika
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/

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400 Powell Road

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FAX: (803) 576-2498

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