

The Landing Rate Count

South Carolina
Mosquito Control
Association

Volume 40 Issue 3

Editor: John C. Grant

The President's Message

by Joe Strickhouser

A few programs are still seeing mosquito populations that require control measures, but most of us are looking at season end concerns. A good time of year and time to make sure your crew has all their training requirements fulfilled. If you haven't already done so, make plans to attend our annual conference at Hickory Knob State Park, near McCormick, SC. We have an excellent program planned and attendance looks like it will be very good, so there will be lots of opportunities to share ideas and fellowship with friends and colleagues.

Budget constraints that have affected many programs in recent years and they show no signs of going away soon. As I've said before, these money shortages have caused many programs to rethink and in some cases eliminate their traditional control measures. Going forward we need to consider everything available to us so that we control mosquito populations with the least expense. I know of a program in Georgia that has been able to move their citizen complaint system over to the city/county's 311 program. This has had a dramatic impact on their manpower requirements and has increased co-ordination with other city/county services. For instance, a standing water report might generate a work order for the streets department to fix the problem causing the standing water. There are resources out there and we need to be sure we make the best use of what we have, rather than relying on "The way we've always done it".

See you in Hickory Knob.

Best to all,

Joe Strickhouser



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SCMCA

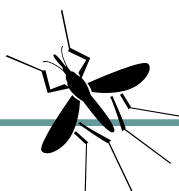
2014 Annual Meeting

Nov 6-Nov 7

Hickory Knob State Park



How About Some
Cornhole
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South Carolina Mosquito Control Association

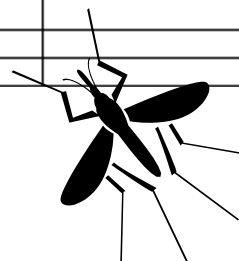
Entertainment for Thursday night at the meeting:

Cornhole Tournament Bragging Rights Up for Grab

Sign up to participate in the Cornhole Tournament at/near the registration table - two people per team. Official rules will be posted with signup sheets. The tournament will begin at biting time - set up outside (inside if it rains). Prizes available for the top 3 teams. If you're interested in participating as a judge instead of a contestant contact Tammy Brewer at brewerta@rcgov.us with "Judge" as your subject.



Agenda			
 South Carolina Mosquito Control Association 2014 Annual Meeting - Nov 5-7 Hickory Knob			
Thursday			Moderator's Name
1:00	Call to order	1st Session	Joe Strickhouser
1:10	President's remarks, The Significance of Surveillance – Prevention In Mosquito Control	Rene Shealy	
1:30	Pesticide Safety & Regulatory Updates	Tammy Lark Lognion	
1:50	All Things Bees	Dr Jennifer Tsuruda	
2:10	Vendor Introductions	Jason Conrad	
2:20	BREAK	2nd Session	Julie Davis
2:35	Evaluation of Efficacy of Natular™ 2EC, G30 and Sand formulations for Aedes vigilax (Skuse) Control in a Saltwater Habitat near the Gold Coast, Australia	William Jany	
2:55	SC Arbovirus Update	Dr Chris Evans	
3:10	CDC Arbovirus Update	Dr Harry Savage	
3:40	Vendor Introductions	Jason Conrad	
3:50	BREAK	3rd Session	Eric DeLuca
4:10	How to lose a State Mosquito Program	Dr Nolan Newton	
4:30	AMCA Update	Chris Lesser	
4:50	Vendor Introductions	Jason Conrad	
6:00	Biting Time		
7:00	Banquet		
Friday			
8:30	Heartland Virus - New Tick pathogen	Dr Harry Savage	
8:50	Pesticides and Practices: A look at Mosquito Control in VA	George Wojcik	
9:10	Snakes in SC	Parker Whitt	
9:30	Why Public Health & Mosquito Control need to work	Dr Rosmarie Kelly	
9:50	BREAK	5th Session	Joe Strickhouser
10:15	Local Program Update/Highlight	Ron Plunkett	
10:30	Arboviral Update	Dr Chris Evans	
10:50	Development of Malaria Vector Control Interventions in Africa. Experiences and Insights from an Entomologist working in Sub-Saharan Africa	Bill Jany	
11:10	Business Meeting		
12:00	Adjourn		



Program Updates:



Mid Region

Representative Caleb Parker

Lexington County Mosquito Control (David Mitchum)

Not much to talk about here in Lexington County. We had a busy spring, but as the season progressed, the mosquito calls started to slow down a bit. Flood areas were treated to help alleviate the work load by the notorious *Psorophora ferox* and the 747 of the mosquitoes *Psorophora ciliata*. Most of the calls that we received were concerning people unintentionally breeding the infamous Asian tiger mosquito. Needless to say, this mosquito season we did our fair share of educating the homeowner on mosquito prevention. We did see on occasion a few *Culex* mosquitoes. We will continue our efforts to help control these irritating little beasts.

Richland County Update (Tammy Brewer)

We are in the early stages of learning about aerial contingency planning. Thanks to the folks in Beaufort for taking the time to show us about their operations including use of the RAMP & aerial operations. The information they shared is extremely helpful. This season has been relatively quiet but we won't always be so lucky. Now that we're winding down, our seasonal staff are all leaving and we'll begin gathering our equipment for maintenance & repairs. Our full-time staff are looking forward to attending the annual meeting at Hickory Knob.

Lower Region

Representative Eric Deluca

Georgetown County Mosquito Control (Erci Deluca)

Another season has come and gone and we're looking forward to seeing everyone at the Annual Meeting at Hickory Knob S.C. Here in Georgetown County, we had a moderate mosquito season. The salt marsh mosquitoes (*A. sollicitans* and *A. taeniorhynchus*) are our main concern and the majority of our mosquito work. We were expecting a very active season especially, with having four Supermoons this summer and the amount of rain, we were ready to get down and dirty. The frequency of high-run tides determines the frequency of the generations of mosquitoes, with one generation of mosquitoes per high-run tide. With each generation, the number of individuals increases greatly. I had visions, that when I went to do landing counts in high marsh areas, that I would not even have to get out of the truck. The little monsters would be swarming around the truck, pushing it from side to side like soccer fans whose home country had just lost. It just never happened. Even our woodland species, were not that bad. We had calls from the public in areas where these species inhabit but, it was nothing a spray truck could not fix. The acres sprayed for adults were 23,893 and larvacide 4,500 acres.

It was a pleasant season for us here in Georgetown County Mosquito Control.

Santee Cooper Vector Management (John Grant)

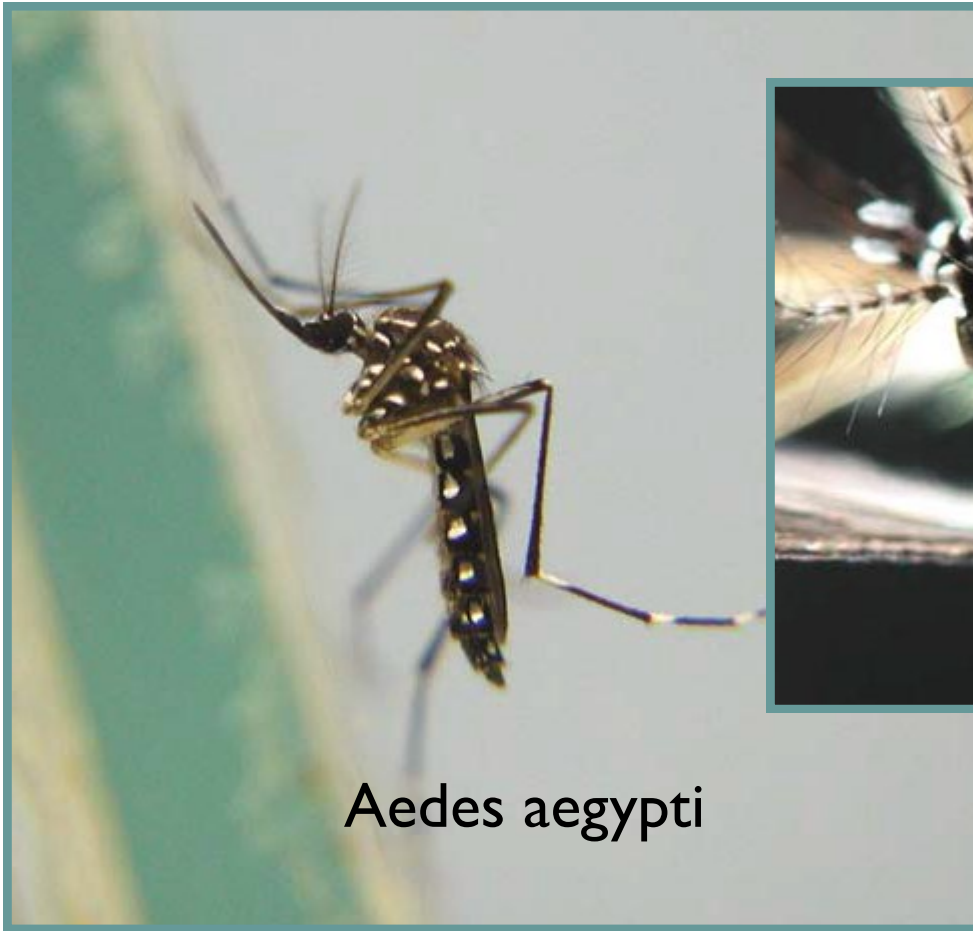
Lower than typical mosquito activity was observed for the 2014 season. Ground adulticide treatments were made to only 16,499 acres. This is roughly a third of what we typically treat. The mosquitoes just weren't there this season! Santee Cooper lake levels remained consistent through the year and water hyacinth was well controlled, resulting in minimal impact from permanent water body mosquitoes. *Aedes albopictus* was implicated as being the problematic species in the few service requests that the unit received. To date, no mosquitoes submitted by the unit to DHEC for arbovirus surveillance have tested positive. None of the mosquitoes tested in-house using the RAMP Analyzer or the Vectest have tested positive for West Nile or EEE. We want to thank Terrill Mincey and Horry County Mosquito control for the assistance they provided in performing adult control services this summer at the Santee Cooper Stilley Recreational Center near Conway.

Upper Region

Representative Julie Davis



South Carolina Mosquito Control Association



Aedes aegypti



Lyre-shaped scutum

Photo used with permission of Cutwa & O'Meara, Univ. of Florida, Florida Medical Entomology Laboratory

Species Spotlight! *Aedes aegypti*

Aedes aegypti are native to Africa but were brought to the Americas aboard ships traveling from Africa. Adults are small to medium size with a lyre-shaped pattern on the thorax. *Aegypti* adults feed on mammals, including humans, often biting below the knees. Adults are known to transmit yellow fever, dengue and **chikungunya** virus. Breeding often occurs in man-made objects that hold water including discarded tires. *Aedes aegypti* was once common to South Carolina but has been displaced by *Aedes albopictus*.

(Source: Mosquitoes of the Southeastern United States, Burkett-Cadena, The University of Alabama Press. 2013).



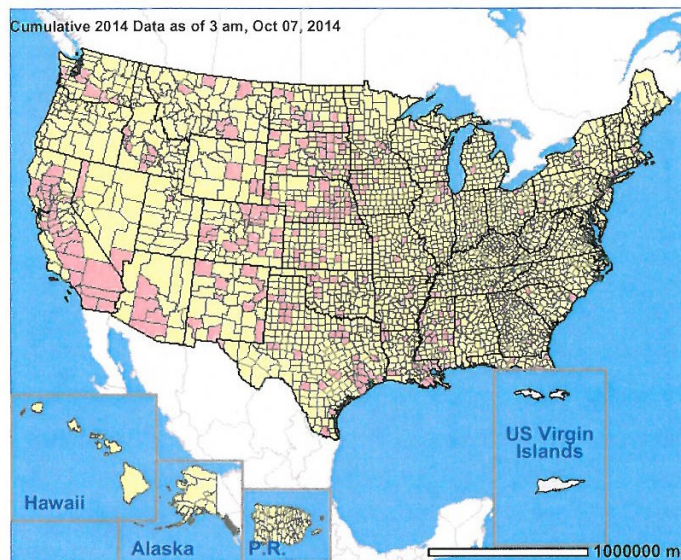
West Nile Virus Maps - Human - USA

Page 1 of 1



West Nile Virus: USA - Human

Cumulative 2014 Data as of 3 am, Oct 07, 2014



Legend

Positive Test Results*

No Positive Test Results**

* Data demonstrates local jurisdiction of residence and not necessarily the locale where the infection was acquired.

** States and counties in yellow are those in which virus activity has been reported historically, but no positive test results have been reported or no surveillance has occurred this year.



These data are provisional and may be revised or adjusted in the future.

Alabama	1	Maryland	3	Pennsylvania	6
Arizona	50	Massachusetts	3	South Carolina	2
Arkansas	5	Michigan	1	South Dakota	51
California	427	Minnesota	10	Tennessee	6
Colorado	99	Mississippi	44	Texas	155
Connecticut	3	Missouri	10	Utah	2
District of Columbia	3	Montana	5	Virginia	4
Florida	10	Nebraska	99	Washington	8
Georgia	11	Nevada	3	Wisconsin	7
Idaho	18	New Jersey	5	Wyoming	5
Illinois	28	New Mexico	14		
Indiana	4	New York	15		
Iowa	12	North Dakota	17		
Kansas	28	Ohio	7		
Louisiana	106	Oklahoma	14		

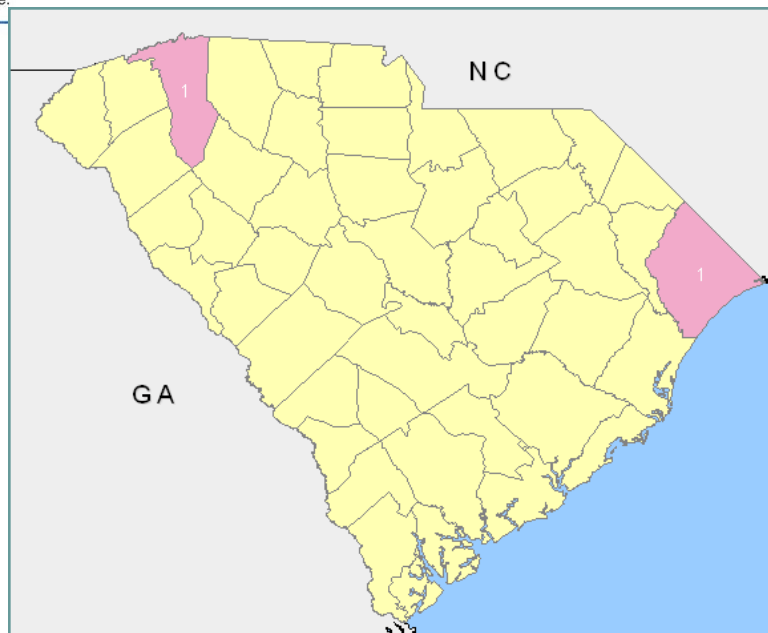
Cumulative Total Entire Country: **1,301**

U.S. Department of the Interior | U.S. Geological Survey

http://diseasemaps.usgs.gov/wnv_us_human.html

This page last modified: Wednesday October 08, 2014 EST

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2014 Meeting and Event Information

- 11/6/14-11/7/14** **South Carolina Mosquito Control Association 42nd Annual Meeting**
Hickory Knob State Park
McCormick, S. C.
<http://www.scmca.net/meeting.html>
- 11/12/14-11/14/14** **North Carolina Mosquito & Vector Control Association**
City Hotel and Bistro
Greenville, N.C.
<http://www.ncmvca.org/conference.html>
- 12/11/14** **Public Health Entomology Service Mosquito Control Workshop**
Florida State University
Panama City, Florida
<http://docmx8.wix.com/mosquito-id-workshop#>
- 1/13/15-1/15/15** **40th Annual Conference of the Mid-Atlantic Mosquito Control Assoc.**
Hilton Savannah Desoto
Savannah, Georgia
<http://www.mamca.org/conference.htm>
- 3/29/15-4/2/15** **American Mosquito Control Association 81st Annual Meeting**
Hilton New Orleans Riverside
New Orleans, LA
<http://www.mosquito.org/annual-meeting>



Web Resources

Site Author

The American Mosquito Control Association
 The Mid-Atlantic Mosquito Control Association
 The Florida Mosquito Control Association
 The North Carolina Mosquito and Vector Control Assoc.
 Florida Medical Entomology Laboratory (**GREAT ID GUIDE**)
 South Carolina Bee Keeper Association (**local assoc. links**)
 Society for Vector Ecology
 South Carolina Aquatic Plant Management Society
 Clemson Department of Pesticide Regulation
 Clemson CEU Search (**See your CEU information**)
 DHEC Mosquitoes in South Carolina home
 CDC West Nile Virus Information
 WebMD bug bite slide show (**excellent images**)
 USGS (**Vector Maps– Updated regularly**)

Web Address

<http://www.mosquito.org/>
<http://www.mamca.org/>
<http://www.floridamosquito.org/Home/>
<http://www.ncmvca.org/>
<http://fmel.ifas.ufl.edu/>
<http://www.scstatebeekeepers.org/>
<http://www.sove.org/index.html>
<http://www.scapms.org/>
<http://regfocus.clemson.edu/dpr/>
<http://regfocus.clemson.edu/dpr/ncommercial.htm>
<http://www.scdhec.gov/environment/envhealth/pests/mosquitoes.htm>
<http://www.cdc.gov/westnile/index.html>
<http://www.webmd.com/allergies/ss/slideshow-bad-bugs>
<http://diseasemaps.usgs.gov/>

Please contact John Grant at jcgrant@santeecooper.com if you would like to share an informative, non-commercial, site with other association members. Please see our Sustaining Members ads for links to their commercial sites.





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MID-ATLANTIC MOSQUITO CONTROL ASSOCIATION

The Mid-Atlantic Mosquito Control Association (MAMCA) is a non-profit, professional organization founded in 1975. The membership consists primarily of local/state/federal government officials, industry, and research/academic members from the nine member states of Delaware, Georgia, Maryland, North Carolina, Pennsylvania, South Carolina, Tennessee, Virginia and West Virginia. South Carolina was one of the founding members of the association.

MAMCA's next Annual Meeting will be held in Savannah, GA, January 13-15, 2015. The registration form and additional information about the association may be found on the website:

www.mamca.org.

It is also time for SC to choose a new State Director to serve on the MAMCA Board of Directors. The State Director must be a member of the association and be willing and able to serve a three year term.

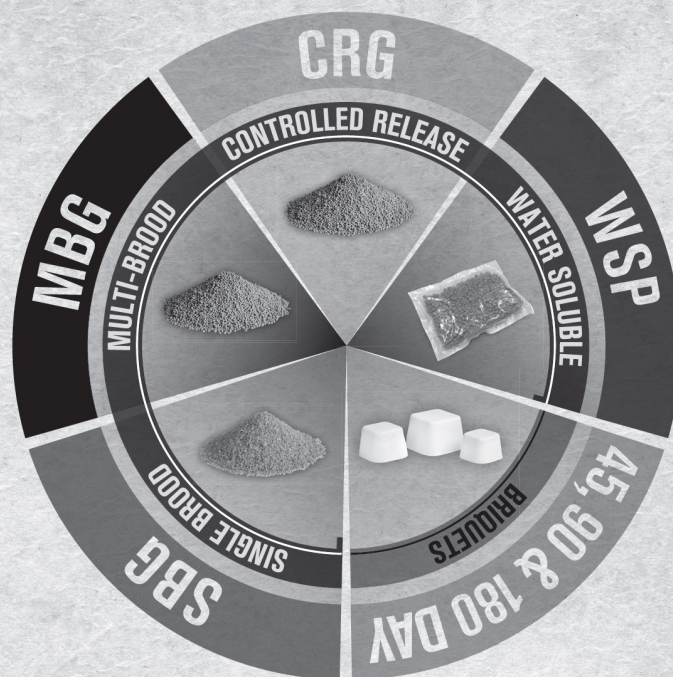
Responsibilities include:

- Providing information for the SC State Report to be included in the MAMCA newsletter and to be presented at the MAMCA annual meeting
- Attending annual Board of Director's planning meetings which are held in upcoming conference sites.
- Providing topic/speaker suggestions for each year's annual meeting agenda

Serving as the SC State Director provides an opportunity to meet fellow mosquito control professionals and to learn more about the various programs in the Mid-Atlantic region. The upcoming annual meetings will be held in Tennessee, Virginia, and North Carolina.

It is important that SC maintain its representation on the MAMCA board. If you are interested in this opportunity, please contact Tammy Brewer at (803) 576-2425 or by email at brewerta@rcgov.us.

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In Which Region is Your County?

From the SCMCA By-Laws: ***For the purpose of electing directors, the state shall be divided into three (3) regions known as Upper, Middle, and Lower regions consisting of the following counties:***

Upper:

Anderson	Cherokee	Lancaster	Greenwood
Oconee	Spartanburg	York	Laurens
Greenville	Union	Abbeville	McCormick
Pickens	Chester	Edgefield	Saluda

Middle:

Fairfield	Orangeburg	Darlington	Marion
Richland	Bamberg	Marlboro	Clarendon
Lexington	Calhoun	Dillon	Kershaw
Newberry	Chesterfield	Florence	Lee
Sumter			

Lower

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Hampton	Allendale	Charleston	Horry
Williamsburg			



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SOUTH CAROLINA MOSQUITO CONTROL ASSOCIATION, INC.

Attn: Olin Towery, Secretary Treasurer

Richland County Vector Control

400 Powell Road

Columbia, SC 29203

OFFICE PHONE: (803) 576-2428

MEMBERSHIP APPLICATION

NAME: _____

ORGANIZATION: _____

ADDRESS: _____

WORK PHONE: _____

FAX: _____

E-MAIL: _____

**Newsletter delivery options: I prefer to have SCMCA newsletter ☐ mailed ☐ e-mailed.

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

South Carolina Mosquito Control Association

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400 Powell Road; Columbia, SC 29203

Phone: (803) 576-2428
Email: scmosquitocontrolassociation@gmail.com

Protecting the Residents and Visitors of
South Carolina

Volume 40 Issue 2

We are on the Web !
www.scmca.net

Stamp

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