



The Landing Rate Count

South Carolina Mosquito Control Association

Volume 38 Issue 3

Editor: Joe Strickhouser

The President's Message

by Terrill Mincey

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PRESIDENT'S MESSAGE

Greetings from the Grand Strand! Fall is upon us and everything has finally dried out from the heavy rains we had in the late spring and summer. Here in Horry County EEE was our major concern. This season saw the loss of 10 horses in our area and most of them were either not vaccinated or not up to date on their vaccinations. This put us in hyper mode in these areas where we went out and inspected and sprayed. We



used all our resources including larviciding, thermal fogging from our UTV, aerial and truck spraying. Thankfully we didn't have any major tropical threats this season in our area to compound the issues. On the good side, this was one of the coolest summers I can remember with very few days approaching 100 degrees.

The SCMCA board members have been working hard getting our Annual Meeting set up and we are excited about being back at the beach. The meeting dates are November 6th thru 8th at Ocean Drive Beach I am looking forward to seeing everyone and hope you can make plans to attend. Olin and Tammy are in the process of updating the SCMCA website with awards history and other great info so be sure to check it out. I hope everyone has had a great summer. As always, be safe and thanks for everything you do.



South Carolina Mosquito Control Association

REGIONAL REPORTS and SPOTLIGHTS

Upstate Region

Consisting of 16 counties in the upstate, the upstate region of SC seems to be managing well, despite the rainy summer. Mosquito control in the upstate region can be a major task, at times. Besides numerous terrain difficulties, there are numerous lakes and ponds that are being managed as well. For Lake Greenwood, this summer turned out to be a very wet one, and resulted in the spillage of water from our floodgates. This water, of course, continued down the Saluda and into Lake Murray. Our Lake Management staff did a great job at continuing mosquito control efforts, while pulling river logs and debris, sampling for aquatic invasives, and managing the earthen dam, hydro, switchbacks, access areas, and fuseplug.

Julie Davis

SCMCA Upstate Regional Representative

Middle Region

This has been an extremely challenging summer for us. Making the transition in the middle of the season was only part of the challenge. We received about 1.5 times as many spray requests so far this season than our 10 year average. We only had three people in the program until Carlicia Davis & Teresa Wise joined our team in mid-August. They can only work part-time but all help was appreciated. We saw unusual mosquito population dynamics all season, for example thousands upon thousands of *Ps. ferox* even in places where we don't usually find them; species we don't normally capture in light traps and increased numbers of *Ur. sapphirina* by up to 10X more in a trap than usual. We thought things were slowing down now that October arrived, but then EEE arrived to keep us on our toes. We are REALLY looking forward to colder temperatures.

Tammy Brewer

REGIONAL REPORTS and SPOTLIGHTS

Lower Region

Charleston County

Most of the program's ground and aerial larviciding activity has been driven by typical summer rain showers, thunderstorms, and lunar peak tides. Tropical Storms Andrea in early June and Chantal in mid-July also contributed larvae-generating rain events. As of September's end, 36,190 acres were aerially larvicided. Even though 2013 has not quite been as busy as 2012, the division's ULV truck unit operators have had a very active mosquito season. To date, 898,851 acres have been sprayed during more than 700 missions. The 229,792 acres sprayed in July set a program record for that month since we began tracking monthly acreage in 1999. Although Joint Base Charleston had two military-owned Cooper River dredge disposal sites sprayed by a U.S. Air Force C-130 aircraft in June, the first aerial adulticiding missions of the year conducted by this program were performed in September. Both were carried out to stem Brown Salt-Marsh mosquito outbreaks in urban and rural areas. A total of 50,186 acres were treated by fixed-wing aircraft.

Ed Harne; Charleston County Mosquito Control Division

Santee Cooper Vector Management

Wet weather, combined with elevated water levels in Lake Moultrie and Marion, resulted in exceptionally high mosquito activity for July. Ground adulticide treatment totals for the month were the highest since 2003 and the second highest in the past 30 years for July. Activity continued to be higher than normal for August, then declined (BIG sigh of relief) through September and early October. The unit successfully targeted woodland pool mosquitoes with ULV and thermal fog machines mounted on the unit's ATV. Pre and post treatment inspections revealed excellent control for most of these applications. Vector Management personnel also performed numerous lake shoreline larvicide treatment applications using pumps and blowers mounted in the unit's boat. Technicians Kathy Tallman and Tim Hutto collected mosquitoes with CDC and gravid traps and tested for the presence of West Nile Virus and EEE using the RAMP Analyzer and the VecTest kit. To date, no mosquitoes have tested positive for these arboviruses.

John Grant; Santee Cooper



SCMCA

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Richland County Vector Control
400 Powell Road
Columbia, SC 29203

2013 SCMCA Officer Ballot

Nominee:

Write in:

President:	Joe Stickhouser	x	_____
Vice President:	John Grant	x	_____

Please return this ballot form by October 25, 2013 (either electronically, by fax, or by US Mail) to the SCMCA Secretary/Treasurer:

SC Mosquito Control Association
Attn: Olin Towery
Richland County Vector Control
400 Powell Road
Columbia, SC 29204

(803) 576-2428 or Fax: (803) 576-2498

Email address: toweryo@rcgov.us

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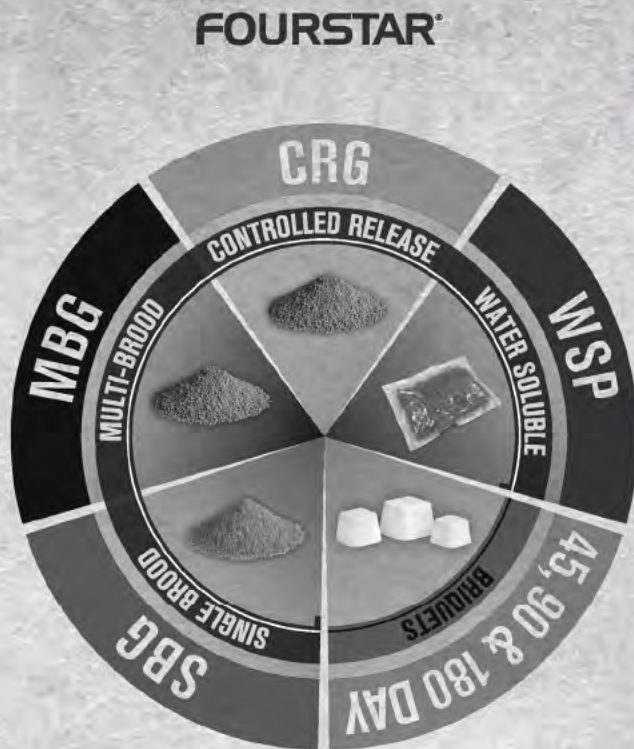
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**South Carolina
Mosquito Control
Association
Annual Meeting Is
at Ocean Drive
Resort and Golf Re-
sort. Nov 7-8**

**Early Bird Dinner
Nov 6 @ 7:00 PM
Meet in Hotel lobby @
6:45 and walk to
Duffy Street Seafood**

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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
Annual Meeting Registration
Ocean Drive Beach & Golf Resort
North Myrtle Beach, SC
November 6 - 8, 2013
REGISTRATION DUE BY: October 15, 2013

NAME: _____
 ORGANIZATION: _____
 ADDRESS: _____
 CITY/STATE/ZIP: _____
 PHONE: _____
 EMAIL ADDRESS: _____

(Email address is important—SCMCA newsletters are sent via email—if you do not have an assigned email address, please indicate an alternate email address that could be used to send you association news and updates. Thanks!)



*Registration fee:	\$75.00	_____
Late registration fee:	\$80.00	_____
Active Membership Dues:	\$10.00	_____
Sustaining Membership Dues:	\$150.00	_____
Early Bird Dinner 11/6/13	On your own**	_____
OTHER COSTS		
Additional Thursday night Banquet Tickets	\$30.00	_____
Total Due:		_____

*Registration fee includes one banquet ticket for the Thursday evening meal and one breakfast ticket for Friday.

**The Early Bird Dinner will be at a local restaurant very near the Ocean Drive Resort. It will be pay your own way and we estimate a cost of \$15.00 to \$20.00.

FOR OFFICE USE ONLY

Amount received with pre-registration form \$ _____

☐ Check # _____ ☐ Cash~~Balance due at meeting:\$ _____

Final amount received: \$ _____

☐ Check # _____ ☐ Cash



REMEMBER: You are responsible for your own lodging. Ocean Drive Beach & Golf Resort; 98 North Ocean Blvd; N. Myrtle Beach, SC. Call 1-800-438-9590 and refer to **SC Mosquito Control Association** to receive the group rate. The room block for our Association is reserved until **October 1st**. Room rates: Ocean View Room - \$56.88; Ocean Front Room - \$60.24; Ocean Front Efficiency - \$63.60; and Ocean Front Suite - \$69.20. Tax and resort fee are included at these prices. (Note: These rates will not be valid if reservations are made online.) For information on the resort, visit their website at www.oceandrivoresort.com.

Return this form to the Secretary/Treasurer: SC Mosquito Control Association, Attn: Olin Towery,
 Richland County Vector Control; 400 Powell Road; Columbia, SC 29203; (803) 576-2428 FAX(803) 576-2498
 Association Website: www.scmca.net

**South Carolina Mosquito Control Association
2013 Annual Meeting
Agenda**

Thursday, November 7, 2013

Registration			Olin Towery/Antoine Williams
11:00AM			
First Session	Moderator		Terrill Mincey
1:00PM	Call to Order	SCMCA President	Terrill Mincey
1:05PM	Welcome	HC Stormwater Director	Tom Garigen
1:10PM	<u>Mosquito Control in SC</u>		L A Williams
1:20PM	<u>The Value of Surveillance & Prevention in Mosquito Control</u>		Renee Shealy
1:40PM	<u>Regulations and Updates</u>		Diana Canady
2:00PM	Product & Equipment Mini Briefing		Trey English
2:10PM	Break		
Second Session	Moderator	SCMCA Vice-President	Joe Strickhouser
2:40PM	<u>Your AMCA</u>		Dr. Henry Lewandowski
3:00PM	<u>The Future of Public Health Mosquito Control</u>		Dr. Roxanne Connelly
3:20PM	<u>La Crosse Encephalitis in Western NC</u>		Dr. Brian Byrd
3:40PM	Product & Equipment Mini Briefing		Trey English
3:50PM	Break		
Third Session	Moderator	Historian	Tammy Brewer
4:10PM	<u>Mid-Atlantic Mosquito Keys - Update</u>		Dr. Buce Harrison
4:30PM	<u>Chikungunya</u>		Dr. Chris Evans
4:50PM	Product & Equipment Mini Briefing		Trey English
5:00PM	Adjourn		
6:00PM	Biting Time		
7:00PM	Banquet		

Friday, November 8, 2013

Fourth Session	Moderator	Upper Region	Julie Davis
8:30AM	<u>Local Program Update/Highlight</u>		Eric Deluca
8:50AM	<u>Soothsaying, Weather, and West Nile Virus</u>		Dr. Henry Lewandowski
9:10AM	<u>Labels want you need to know</u>		John Grant
9:30AM	<u>2013 South Carolina Mosquito Borne Disease Update</u>		Dr. Chris Evans
9:50AM	Break		
Fifth Session	Moderator	Lower region	Eric Deluca
10:30AM	<u>Denque, Drones and Giant Mosquitos</u>		Dr. Roxanne Connelly
10:50AM	<u>Preventing Pesticide Tolerance</u>		Tammy Brewer
11:10AM	<u>Pesticide Safety - Exposures & Impacts</u>		Fran W. Marshall, J.D., M.S.P.H.
11:20AM	Business Meeting		
12:00PM	Adjourn		

Thanks to NCMVCA Biting Times Newsletter for allowing us to republish the following.

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THE BITING TIMES

Alice Anderson**In Memoriam**

(September 8, 1944 – August 21, 2013)

By Dr. Stephanie Richards with some additional information provided by Dennis Salmen.

Dr. Alice Anderson, recently retired Associate Professor in the Environmental Health Program in the Department of Health Education and Promotion at East Carolina University (ECU), died August 21, 2013. Alice spent almost 20 years (1984-2003) living in Morehead City and working as a medical entomologist for the Public Health Pest Management (PHPM) section of the North Carolina (NC) Department of Environment and Natural Resources before joining ECU in 2003.

Dr. Anderson received a B.S. (1966) and M.S. (1975) from Central Michigan University, before heading to Bowling Green State University where she received a doctorate in Biology in 1979. She completed postdoctoral positions at University of Arkansas, University of Georgia, and Virginia Polytechnic Institute and State University.

During her time with PHPM, Anderson organized training and consulted on medical entomology issues in 24 coastal counties in NC. She helped coordinate emergency mosquito spray response in these regions after hurricanes and was a vital part of the open marsh management project in NC. While she was classified as a “dreamer” during a personality test at PHPM, she was liked by everyone and influenced many mosquito personnel in the coastal counties of NC. She served as president of the NCMVCA in 1993 and Vice-President in 1992. She also served as president of the Mid-Atlantic Mosquito Control Association (MAMCA) in 2000 and as its Vice-President in 1999.

Dr. Anderson was Program Director of Environmental Health Sciences at ECU from 2009-2012 and mentored countless undergraduate and graduate students during her time there. Students have commented that they enjoyed her “spirited instructional style”. She taught courses in Vector Borne Disease Ecology, Environmental Law and Program Management, and Epidemiology. Dr. Anderson was a valued colleague and her unique sense of humor and style will be missed.

Dr. Anderson is survived by her husband of 20 years, Michael Mayo; her sons, Colin Anderson-Evans of California and Eliot Anderson-Evans of NC; brothers, Alan and Jim Anderson of Michigan; and sisters Patty Hoppe of Minnesota, and Cheryl Tuttle of Michigan.



For Your Info

Duke Energy Reservoir Mosquito Control Program 90 Years Old

Duke Energy is celebrating the 90th year of its reservoir mosquito control program, the oldest continuous environmental program of any utility in the U. S and one of the first in North America. Duke Energy's mosquito control program started in 1923, shortly after the company impounded the first three of 11 reservoirs or lakes on the Catawba River in North and South Carolina. This public health program laid the foundation for the strong philosophy of environmental stewardship that continues to be a major focus of Duke Energy today.

In 1923, malaria was a major mosquito borne health risk in the southeastern United States. Duke Energy's founder, James Buchanan Duke, commissioned Frank Moon Boldridge, a former World War I army doctor and malaria expert, to create and oversee a reservoir mosquito larvae control program. Dr. Boldridge, a South Carolina native, retired from Duke after 43 years of service to the company and to the citizens of the Carolinas.

Today, the program is active on five of Duke Energy's largest and most urbanized lakes -- Lake James, Lake Norman, Lake Wylie and Lake Wateree on the Catawba River and Lake Keowee in the upper Savannah River drainage. Although malaria in the United States is no longer the major threat it was 90 years ago, today there are many more known diseases of both humans and domestic animals transmitted by mosquitoes in the southern US.

Duke Energy's two-man mosquito control boat crews travel along 1,700 miles of reservoir shoreline, a distance that would stretch from Maine to Key West, every 10 to 12 days, looking for and spraying reservoir shoreline mosquito breeding habitats. Duke Energy's treatment season is from May 1st through October 31st each year. Working in close coordination with public health and natural resource agencies in both Carolinas, Duke Energy's mosquito control program uses state of the art government approved larvicides.

The Duke Energy reservoir mosquito control program expresses our appreciation for the continued support of North Carolina and South Carolina public health and natural resource agencies and the membership of the North Carolina Mosquito and Vector Control Association and The South Carolina Mosquito Control Association.

Submitted by Kenneth L. Manuel and Tommy W. Bowen, program leaders of the Duke Energy Reservoir Mosquito Control Program – Charlotte, North Carolina.

Mosquito ID Opportunity

This year's North Carolina Mosquito & Vector Control Association meeting will be held November 4-6 in Wrightsville Beach, NC just outside of Wilmington, NC. This is the same week as the SCMCA meeting just down the road at the Ocean Drive Resort in North Myrtle Beach.

Parker Whitt will be giving a Mosquito ID short course from 1pm to 5 pm at the conclusion of the NCMVCA Meeting at the Blockade Runner in Wrightsville Beach. If you have a chance to attend it could be either a good starter course or an chance to sharpen your mosquito ID skills. If you plan to attend and have an ID scope, you should try and bring it. There will be a \$10.00 charge for the course to help pay the Blockade Runner for the meeting space. You do not need to sign up for this, just show up. You should have time after the course to get to the Early Bird dinner in North Myrtle Beach.

**South Carolina Mosquito
Control Association**

Richland County Vector Control
400 Powell Road; Columbia, SC 29203

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

Protecting the Residents and Visitors of
South Carolina

Volume 38 Issue 3

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Stamp

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Lower Region: Eric Deluca

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**Promoting Mosquito
Control in South Carolina.**

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