



The Skeeter



Newsletter of The Virginia Mosquito Control Association

Volume 66, No. 3

October 2006

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President's Message

Summer is over, but Ernesto dumped enough rain on Virginia in the beginning of September to keep many of us pretty busy through the month of October. Arboviral activity remains a concern for some areas of the state with West Nile and Eastern Equine Encephalitis virus positives still being reported. Typically, the mosquito season and the arboviral activity will taper off by early November, so we can look forward to the end of the season and start planning for next year.



Jason Williams, VMCA

The VMCA membership voted at the last annual meeting to include an Organizational Membership. There may have been some confusion as to the intent of this membership, so let me elucidate our exact purpose for bringing back this type of membership: The Organizational Membership includes one Regular Membership. The Regular Member included in the Organizational Membership is meant to be the point of contact for the VMCA to use for any given mosquito control organization. This member should be the director or someone of authority within the mosquito control organization. This is meant to simplify disseminating information to the membership and make it easier for the VMCA to contact the proper personnel. The Organizational Membership will be listed on the VMCA website and annual meeting program and also ensures a reservation for one member from that organization in all VMCA sponsored training courses. We are also planning a special luncheon at the annual meeting for Organizational Members and invitations to regional meetings may arise in the future.

We will have a recertification class for Category 8, Public Health Pesticide Applicator, and Category 60, Registered Technician, scheduled for Jan. 17th in Hampton. Leroy Bohn from Chesapeake has put together a fine program and an application is included in this issue.

The 2007 VMCA Annual Meeting, Feb 7-9, is going to be our 60th and we hope it will be a special one for our members. The ballots for the 2007 officers will be mailed out soon, so keep an eye out for them. The 2006 meeting was the most attended meeting ever and we anticipate the 2007 meeting will exceed last year's record turnout. The annual meeting should also provide recertification credit for Categories 8 and 60, pending approval from the Virginia Department of Agriculture and Consumer Services. President-Elect Agnes Flemming and Vice President Randy Buchanan are putting together the 2007 program. If you would like to present or know someone who has a presentation that would interest our members, please contact them. I look forward to seeing you all there.

Jason W. Williams
President.

Final Approved VDACS Changes

Substantive changes to existing sections include:

1. Deletes the definition of bond to be compatible with 1993 amendments to the Pesticide Control Act in §3.1-249.49.
2. Modifies the definition of pest management consultant to include anyone making any pesticide recommendations commercially in Virginia.
3. Defines a pesticide business location to clarify what is a separate outlet or location of a pesticide business.
4. Changes the renewal date of a pesticide business license to be compatible with 1993 amendments to the Pesticide Control Act in §3.1-249.47.
5. Deletes the recordkeeping requirement by commercial applicators for the application of restricted use pesticides.
6. Deletes surety bond and self-insurance as evidence of financial responsibility to be compatible with 1993 amendments to the Pesticide Control Act in §3.1-249.49.

New substantive provisions include:

1. Requires that pesticide businesses keep records of all pesticide applications.

Source www.townhall.state.va.us/Stage/ViewStage.cfm?Stage=3529

Proposed VDACS Changes

Substantive changes to existing sections include:

1. Add language making some definitions easier to read and clarifying the meaning of a not-for-hire applicator and the requirements of such applicators to keep records of pesticide applications.
2. Add a definition of a “competent person” on the advice of the Attorney General’s office.
3. Delete definitions that are not used in the regulations.
4. Add language to clarify the type of supervision required for people training to become certified applicators and registered technicians.
5. Add language to bring the regulation into compliance with the Virginia Pesticide Control Act as it relates to daycare center not-for-hire applicators.
6. Add language stating the exact application process for pesticide applicators, including the payment of appropriate fees.
7. Add language to clarify the training necessary for Registered Technicians when applying pesticides in more than one category activity.
8. Add language to ensure that applicators cannot apply pesticides unless they have been certified in a particular category.
9. Amending language to better state the conditions under which an illiterate person might be granted a certificate.
10. Add language to require registered technician applicants to complete the process of training and testing within an accepted time frame as well as making the process easier to understand.
11. Delete language that currently allows businesses and agencies to proctor their own Registered Technician examinations.
12. Add language to clarify the conditions required for certification of applicators applying paint containing pesticides.
13. Add language to allow the Board to designate additional categories of commercial applicators to meet federal mandates.
14. Add language clarifying what adverse effects need to be reported.
15. Add language to make the process for suspending a certificate for non-payment of a civil penalty more easily understood.
16. Add language to clarify what data needs to be reported in the case of pesticide accidents and incidents.

Source www.townhall.state.va.us/Stage/ViewStage.cfm?Stage=2875

In The News

Let us know about mosquitoes, bugs, or program information in the news. If you have an interesting article in your city or town paper you would like to share send us a summary and the link or citation for a news story. We will credit you with sending in the story. Please note: No summaries can be published with out proper citations. (author(s), title, original source, and date of publication) Thank you to all those that submitted articles for this issue.

“[Bitten by the Bug Bug: An Entomologist's Life](#)” by Tamara Jones, Washington Post; Wednesday, August 2, 2006; Page C01 Provides an interesting perspective into the inner workings of Fairfax County's Jorge Arias. Contributor: Jennifer Johnson (Fairfax Co.)



Bug Brainiacs Learn About York County Fish

On Wednesday August 16, Beverly Holmberg & ten of her Mathews County 5th & 6th Bug Brainiacs visited York County's fishery to learn about mosquito fish & how they are reared. It was a good visit and many questions were answered by the fishery guru Biologist/Jim Rindfleisch.

Contributor: Tom Gallagher (York Co.)

Upcoming Events

Virginia Pesticide Applicator Municipal Employee Re-Certification (**Municipal Government Employees Only**) Categories (3a, 3b, 5a, 6, 10, 60)

There is no charge for the recertification register before November 18, 2006 at Rose Hall, Norfolk Botanical Gardens for registration form contact George Wojcik at 757-393-8666.

November 1 - 3, 2006 [South Carolina Mosquito Control Association Annual Meeting](#) will be held at the [Ocean Creek Resort](#), Myrtle Beach, SC. [Conference registration form](#). For information please contact Carolyn Morgan, SCMCA Secretary/Treasurer, at (803) 896-0655 or morgancl@dhec.sc.gov.

November 7-9, 2006 [North Carolina Mosquito and Vector Control Association Annual Meeting](#) at the [City Hotel and Bistro](#) in Greenville, NC. [Conference registration form](#).

November 15-17, 2006 [Pennsylvania Vector Control Association Conference](#) will be held at Ramada Conference Center, State College, PA. [Conference registration form](#).

January 17, 2007 **Recertification Category 8 and 60**. It will be held at Hampton Library, 4207 Victoria Blvd., Hampton, Virginia. Registration deadline is January 5th, Registration form on page 10.

February 7-9, 2007 [Virginia Mosquito Control Association Annual Meeting](#) will be held at the [CROWNE PLAZA WILLIAMSBURG AT FORT MAGRUDER](#) in Williamsburg, VA. Meeting and Hotel Registration forms are on page 10.

February 20-22, 2007 [Mid-Atlantic Mosquito Control Annual Conference](#) will be held at the [Marriott Charleston](#) in Charleston, South Carolina.

Henrico County Modified Gravid “Bucket Trap”

During the 2005 Mosquito season, Henrico County began to introduce animal manure into their gravid infusion. When the fumes finally cleared, poultry manure was shown to increase our *Culex pipiens/restuans* collection numbers significantly. The new infusion worked great but smelled real bad.

As our 2006 Mosquito season began we realized that improvements were needed in our transport & trapping process. The process of pouring the infusion from the transportation container (jug) to the gravid pan, and visa versa, was not a pleasant experience. It could be described as “gross”. Therefore, we began our search for a spill-proof container that would double as a transportation container and a gravid trap pan. We ended up using a 2.5-gallon HAZMAT transport “bucket” that contained an o-ring in the top. The containers, now know as “Bucket Traps”, were painted flat black and our comparison test began.

We began with the Reiter Gravid Tube w/ a 2-watt, 51-ohm resistors installed the positive battery wire and a Tool Box type collector with the Gravid Pan and the Bucket. The Toolbox Type collector covered a large portion of the “bucket” opening and did not function well in our initial comparison and was not used in the overall field comparison.

We chose a newly created beaver pond site where we had been collecting high numbers of *Culex restuans*. We performed side-by-side comparisons with the “bucket traps and gravid pans for 5 consecutive nights. The Gravid pans out performed the buckets consistently.

We performed additional comparisons alternating nights in the exact location with the exact same gravid infusion for 2 sessions of 5 consecutive nights each. When comparisons were made alternating a Bucket Trap one night and a Gravid Pan the next night, catch numbers were virtually identical for each trap night.

We are utilizing a Military Surplus “Container Drop System” unit to place our buckets in to contain any spills that may occur while transporting the Poultry Manure Infusion. These units have work very well and do a great job of containing any spills that have occurred.



Randy Buchanan, Henrico County (804) 501-7332 buc06@co.henrico.va.us

Virginia Arboviral Update 9/10/06

This year, West Nile virus (WNV) activity has been higher than in 2005, particularly in Prince William, Fairfax, and Arlington Counties in Northern VA, but WNV activity has been below what has been seen since 2001 in the other parts of Virginia that have mosquito surveillance programs (i.e., the Richmond and Tidewater Areas). In Northern VA, an unusually large number of bridge vectors have tested positive and may be the source of the first human WNV case in Fairfax County. Eastern equine encephalitis (EEE) activity has picked up in the Tidewater Region during August, but it is still below what it has been in the previous three years. No human infections of EEE, or St. Louis Encephalitis (SLE) have been seen, and the only reported human case of La Crosse encephalitis (LAC) reported to VDH could not be confirmed by the State Laboratory (DCLS) because the private laboratory that had initially detected it, failed to notify VDH and had disposed of the sample by the time VDH learned about it.

Continued on page 5

Virginia Arboviral Update 9/10/06 continued

West Nile Virus Activity

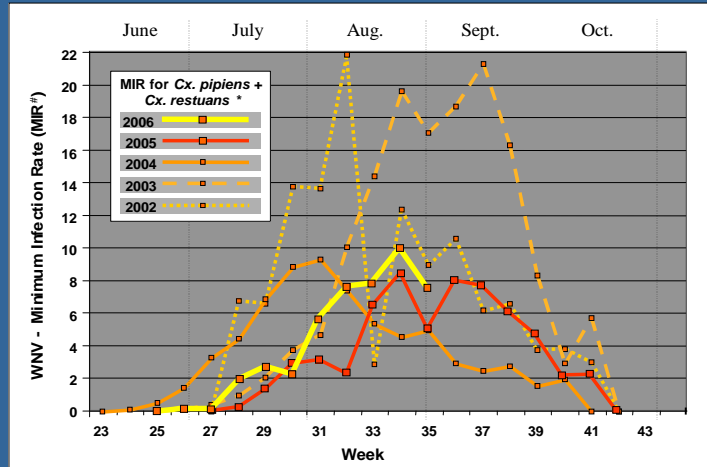
In spite of some pockets of high activity in Northern Virginia, WNV has been slow to infect mosquito populations in the Tidewater and Richmond area, and the overall infection rate for *Culex (pipiens + restuans)* is only slightly ahead of, and greater than what was seen in 2005 (see graph comparing the past five years on the attached PowerPoint slide). The higher levels of WNV activity in Northern VA have resulted in one human case of illness in Fairfax County [onset on August 20; week 34]. Additionally, the national program which screens blood from all blood donors has detected WNV infected blood from two donors from Fairfax County. The two WNV positive blood donations were drawn on weeks 34 and 36. These are the first WNV positive blood donors to be reported to VDH since the national blood screening program was instituted in 2003; blood identified as contaminated with WNV is removed from the blood supply and no cases of transfusion related WNV have occurred in the U.S. since screening efforts were instituted in 2003.

To date, 342,537 mosquitoes (9,629 pools) have been tested for WNV in 2006, including 172,737 *Culex (pipiens + restuans)* (5,364 pools). To date, a total of 444 pools of mosquitoes have tested positive for WNV and of these positives, 412 were pools of *Cx. (pipiens + restuans)*, 9 were *Cx. erraticus*, 7 were *Ae. vexans*, 6 were *Ae. albopictus*, 4 were *Cs. melanura*, 1 was *An. punctipennis*, and 5 were unidentified species [data lost]. Of the 412 infected *Cx. (pipiens + restuans)*, a total of 380 came from jurisdictions in Northern Virginia (Prince William Co. - 179, Fairfax Co.- 136, Arlington Co. - 31, Alexandria - 25 and Loudoun Co. - 9). The rest of the WNV positive *Cx. (pipiens + restuans)* pools (32 total) have been collected in the Richmond and Tidewater Areas (Richmond - 16, Henrico Co. - 7, Petersburg - 3, Suffolk - 4 and Virginia Beach - 2).

This season's most interesting development is the advent of nine WNV positive pools of *Culex erraticus*. Only one WNV positive *Cx. erraticus* had been found in Virginia over the previous five years of mosquito testing. Seven of this year's nine positive *Cx. erraticus* pools were collected in Fairfax County during several weeks before the occurrence of the human WNV case in that same county. That person (WNV case) lived within a mile radius of where the seven positive *Cx. erraticus* pools were collected. Because the infection rate for the primary vectors [*Cx. (pipiens + restuans)*] was very low in that part of Fairfax County, *Cx. erraticus* becomes a strong suspect as the vector. Why WNV was able to infect a significant number of *Cx. erraticus* in a locality where the infection rate in the primary vectors was relatively low is unknown. One possible, hypothetical, explanation was environmental temperatures in the high 90s (degrees F) in the weeks during which this occurred. A published study has shown that WNV replication inside *Cx. pipiens* mosquitoes is accelerated by higher environmental temperatures. The other two WNV positive *Cx. erraticus* pools were collected in Arlington and Prince William counties during weeks 34 and 35, respectively.

The seven pools of *Ae. vexans* that tested WNV positive this year (6 in Prince William Co. and 1 in Fairfax Co.) were also collected during this period of high environmental temperatures. A graph showing the weekly MIRs for primary vectors and for several bridge vector species (*Cx. erraticus*, *Ae. vexans* and *Ae. albopictus*) in Northern VA can be seen on the second slide of the attached PowerPoint presentation.

Weekly WNV minimum (mosquito) infection rate (MIR) for *Cx. (pipiens + restuans)* in Virginia on weeks 23 - 44 of 2002 through 2006.



*MIR = The minimum number of WNV positive mosquitoes in 1,000 tested.

* *Culex (pipiens + restuans)* data are from Northern Virginia, the Richmond Area and Tidewater Area jurisdictions.

Continued on page 6

Continued from page 5

Over 40 dead wild birds from 14 different Virginia jurisdictions have been tested for WNV, and only one, collected from Arlington Co. on August 16 [week 33] has tested positive. To date, two sentinel chickens in two Suffolk flocks have tested positive for WNV. The blood samples from these chickens were drawn on weeks 32 and 34. On Aug. 20 [week 34], a horse that resided in Suffolk also succumbed to a WNV infection and is the only horse to test positive for WNV in Virginia this year.

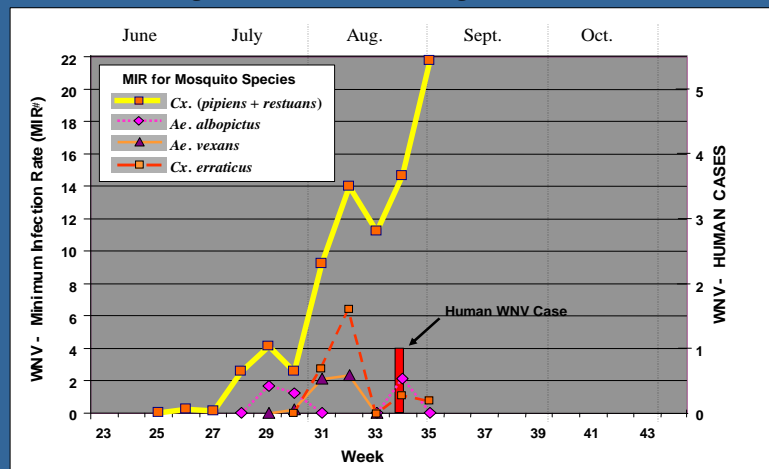
Eastern Equine Encephalitis Activity

To date, 180,363 mosquitoes (4,184 pools) have been tested for EEE in Virginia in 2006, including 100,564 *Cs. melanura* (2,236 pools). To date, 27 pools of mosquitoes have tested positive for EEE and all but two of the 27 positive pools were collected in August. This number of positive pools is below, and later than what has been collected in the three preceding years when the majority of EEE positive pools were collected between mid June and the end of July. However, this year's August level of EEE activity is equivalent to what was seen in August of 2005, and that year produced the highest number of EEE positive pools ever collected in Virginia. Positives include 26 pools of *Cs. melanura* and one pool of *Oc. atlanticus*. As usual, almost all tested pools and all EEE positives were collected in the Tidewater Region of Southeastern Virginia.

To date, EEE activity has been detected by 14 sentinel chickens in 11 flocks located in the Tidewater Region. Chickens and flocks have been from the following jurisdictions: Chesapeake - 9 chickens in 7 flocks; Suffolk - 3 chickens in 2 flocks; and Virginia Beach - 2 chickens in 2 flocks. To date, there have been no EEE infected equines (horses, ponies, mules or donkeys) found in Virginia.

David N. Gaines, Ph.D.
Public Health Entomologist

Weekly WNV minimum (mosquito) infection rate (MIR) for *Cx. (pipiens + restuans)* and bridge vectors in Northern Virginia; weeks 23 - 44 of 2006.



* MIR = The minimum number of WNV positive mosquitoes in 1,000 tested.

* Mosquito data are combined from the Northern Virginia jurisdictions of Alexandria, Arlington Co., Fairfax Co., Loudoun Co. and Prince William Co.

Mid-Atlantic Mosquito Control Association (MAMCA) Update

Make plans to attend the 2007 [Mid-Atlantic Mosquito Control Annual Conference](#) February 20-22, at the [Marriott Charleston](#) in Charleston, South Carolina. There will be an one day adult mosquito identification taught on February 19th. South Carolina has hosted some great meetings in the past and the 2007 meeting will be no different. The cost of the meeting registration will be around \$100. Dues for 2007 will be set at \$10 for regular members. The MAMCA newsletter will be out soon with state reports and more conference information.

At the February MAMCA meeting Virginia will have to appoint someone to serve a three year term as Virginia State Director. I have enjoyed serving the past three years and would like the opportunity to serve a second term.

Respectfully submitted George Wojcik

Fairfax County Program Survey

Name: Fairfax County Disease Carrying Insects Program (DCIP)

Primary Contact Person: Jorge R. Arias, Ph.D.

Phone number: 703-246-8474

Email: Jarria2@fairfaxcounty.gov

Address: Health Department,
10777 Main St. Suite 100
Fairfax, VA 22030

Web Site: www.fairfaxcounty.gov/fightthebite

Program Supervisor: Jorge R. Arias, Ph.D.

Annual Budget: \$1,600,000

Year Established: 2003

Number of Full-time Employees: 4

Part-time or Seasonal Employees: 6 (5 field biologists, 1 administrative assistant)

Organizational Structure: Local Government/Health Department/ Division of Environmental Health

Purpose: mosquito surveillance and mosquito-borne disease control

Region: Northern Virginia, Fairfax County

Population: 1.2 million **Area:** 400 (square miles) **Geography:** peri-urban, greater Washington DC metropolitan area, greatly residential, waterways streams and runs, borders the Potomac River.

What are the major problematic mosquito species in your area?

WNV vectors: *Culex pipiens*, *Culex restuans* Nuisance: *Aedes albopictus*.

Other Species of interest (to watch): *Ochlerotatus japonicus*, *Culex erraticus*

Do you...

- **treat/inspect private property?** Inspect yes, at residents request, do not treat private property.
- **you receive and act upon complaint calls?** Yes (through the Community Health and Safety branch of the Health Department), not the DCIP itself.
- **have an outreach/education component?** Yes, significant
- **monitor the effectiveness of control measures?** Yes (only response control activities)

Surveillance Activities

Adult Mosquitoes

Please describe routine and response surveillance including the types and numbers of traps used:

Routine: Surveillance: Monitoring entire County at approximately 70 strategically placed permanent trap sites, each being sampled on a weekly basis with one CDC and one gravid trap per site.

Response: Depending on various factors (routine surveillance results in a specific area, major weather events, flooding, etc.) an array of traps will be deployed in the affected area. Trapping will be carried out with all types of traps available (CDC, Gravid (toolbox), Faye-Prince, BG Sentinel, ovitraps).

Surveillance data is used to guide any control activities, including reactive larviciding, of catch basins or other breeding sites, and adulticiding. Primarily abundance of vector and man-biting mosquito species and mosquito infection rates (MLE) are utilized for these purposes.

Please describe the methods used for detecting arboviruses:

Send out samples for testing (by RT-PCR) as needed to Division of Consolidated Laboratory Services (DCLS).



Fairfax County Program Survey Continued

Larval Mosquitoes

Please describe routine and response surveillance activities:

a) A county wide larval survey was conducted in 2005 to identify all major breeding sites on public property. Identified breeding sites are inspected and treated on a monthly basis (May to October) and the list of breeding sites is updated constantly, adding new sites as they appear and eliminating non-productive sites as they are identified. All larvicide treatments are done at the moment of inspection, and are based on an average of three or more larvae per dip. Contract based (Clarke Mosquito Control). b) Response larval surveys are carried out depending on various factors (routine surveillance results in a specific area, major weather events, flooding, etc.)

Chickens/Birds

Please describe routine and response surveillance activities as well as the methods used for detecting arboviruses: Dead bird reports are taken from residents via a dedicated phone line or through a web-based reporting system. Historically, certain bird species were tested for WNV according to VDH protocol.

Control Efforts

Adult Mosquitoes

acres adulticides applied each year: Adulticiding is only carried out when surveillance activities so indicate. The only instance of adulticiding in the program was a two mile backpack barrier spray with permethrin in 2005 and a three mile barrier spray (also with permethrin) in 2006. **# truck mounted assets:** Contract based (Clarke Mosquito Control). **aerial assets:** Contract based (Clarke Mosquito Control). **backpack or other assets:** Contract based (Clarke Mosquito Control). **barrier treatments:** Contract based (Clarke Mosquito Control).

Larval

acres larvicide applied each year: over 33,000 catch basins treated with Vectolex three times a year as a proactive measure. Other larvicide usage is as needed depending on inspections & larviciding activities Contract based (Clarke Mosquito Control). **truck mounted assets:** Contract based (Clarke Mosquito Control). **aerial assets:** Contract based (Clarke Mosquito Control). **backpack or other:** Contract based (Clarke Mosquito Control).

Please describe source reduction activities: Home visits based on complaints encourages residents to eliminate breeding sites around the homes, thus reducing breeding sites for *Aedes albopictus*.

Please describe the biological control activities: All larvicides used are either *Bacillus sphaericus* or *Bacillus thuringiensis israelensis*.

Outreach Activities

Knowledge, Attitude and Practice (KAP) Studies

A baseline KAP study was carried out in early 2004 in order to establish a baseline of information in the resident population at the beginning of the program. A follow-up KAP study was carried out in early 2006 in order to evaluate the impact of the outreach activities. Dr. Emily Zielinsky-Gutierrez (CDC – Ft. Collins CO.) joined us after each study to work with us in analyzing the data and prepare manuscripts for publication.

Fairfax County Program Survey Continued

Outreach activities continued

Literature Produced and Distributed

Basic educational folders in seven languages – English, Chinese, Farsi, Korean, Spanish, Urdu and Vietnamese.

Your Children and DEET – on the use of DEET

The Asian Tiger Mosquito- Information on control of this primary nuisance mosquito.

Winter and West Nile Virus – what can be done in Winter to be prepared for mosquitoes

The Summer the Town Bit Back Tumbleweed press. – purchased and distributed (had copies personalized with Program and County logos.

Two 18 month calendars with educational material throughout

Tick-borne diseases of Virginia brochure

Other Outreach Activities

- Presence and presentations at County fair, district fairs, health fairs, 4H fair, home owner associations, civic groups, parks.
- Active participation in Mosquito Awareness Week (County BOS recognition and declaration), banners, presentations.
- Multiple radio, television and newspaper interviews.
- Press releases

Operational Research

Operational research is carried out on an as need to know basis. Some of the research carried out or being carried out includes:

- Mosquito stratification
- Intra- and interspecific competition among container breeding mosquitoes
- Duration and effectiveness of infused baits in gravid traps
- Evaluation of new traps and baits
- Mosquito production of storm water management BMPs
- Mosquito production in tires

OTHER FACTS ABOUT OUR PROGRAM

Is there anything special about your program that you wish to share?

In 2005 we initiated a tick and tick borne disease surveillance in the County.

In 2006 we will carry out a tick KAP study in order to prepare for a tick & Lyme disease outreach program.

We produced temporary mosquito tattoos that were a hit during the County Fair.

Share your mosquito control program profile with us.

We want all mosquito control program to participate in this program. The short survey only takes a few moments to complete. Sharing program information will lead to stronger state and local organizations.

To receive a copy of the survey call George Wojcik at 757-393-8666 or email at gwojck@portsmouthva.gov

Completed surveys in future issues include James City County, Henrico County, City of Portsmouth.

**VIRGINIA MOSQUITO CONTROL ASSOCIATION
PRE-REGISTRATION FORM
ANNUAL MEETING - FEBRUARY 7,8,9, 2007**

NAME: _____
 AFFILIATION: _____
 MAILING ADDRESS: _____
 CITY: _____ STATE: _____ ZIP: _____
 PHONE (WORK) _____ (HOME) _____
 EMAIL: _____

REGISTRATION FEE SCHEULE

Please check below:

Regular Member (inc. banquet)	\$75.00 _____
Non-member	\$85.00 _____
Full-time Student	\$ 5.00 _____
Spouse/Companion (inc. banquet)	\$45.00 _____
One Day Fee (inc. banquet)	\$45.00 _____

Registration fee includes coffee breaks, banquet and socials.

****Registration at the door will be: Regular Members \$ 80.00 Non-Member: \$90.00 ****

Please return this form by JANUARY 10, 2007 to

**Virginia Mosquito Control Association
Jo Ann Beasley, Sec/Treas.
900 Hollowell Lane
Chesapeake, VA. 23320**

Please make checks payable to **VIRGINIA MOSQUITO CONTROL ASSOCIATION**

*Please remember this registration is for the meeting only membership and hotel reservations forms are enclosed

VMCA RE-CERTIFICATION COURSE JANUARY 17, 2007 REGISTRATION FORM

Name: _____ Phone: _____ Fax: _____

Certification #: _____

The Virginia Mosquito Control Association is sponsoring a re-certification course for Category 8 & Registered Technician Wednesday, January 17, 2007. It will be held at Hampton Library, 4207 Victoria Blvd., Hampton, Virginia. Registration is at 9:00 AM. Please be on time! The fee for this course is **\$5.00 for VMCA Members, \$10.00 for non-members (applicators not for hire), and \$30.00 for non-members (applicators for hire).** There will be a **\$2.00 late fee after January 5, 2007.**

Should you have any questions or need further assistance, please contact either Leroy Bohn at (757) 382-3454 or Jo Ann Beasley at (757) 382-3453

LOCATION: Hampton Library

ADDRESS: 4207 Victoria Blvd., City of Hampton, Virginia

PHONE: 757-727-1154 (Library)

PARKING: Please park at the stadium parking lot across the street. (Directions on page 12)

HOTEL RESERVATION FORM

**VIRGINIA MOSQUITO CONTROL ASSOCIATION FEBRUARY 6 –10, 2007
CROWNE PLAZA WILLIAMSBURG AT FORT MAGRUDER**

Sleeping Room Rates: 76 Single 76 Double 86 Triple 96 Quad plus 10% tax and a \$2.00 occupancy tax

King Bed Smoking Two Double Beds Smoking King Bed Non-Smoking

Two Double Beds Non-Smoking No Preference

Room types are not guaranteed, but every attempt will be made to accommodate your request.

Children sharing room with parents: 0 to 18 years – Complimentary Room confirmation will be sent to the following address:

NAME _____

ROOM MATE _____ No. of Adults _____ No. of Children _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

DAYTIME PHONE _____ FAX _____ E-MAIL _____

DATE OF ARRIVAL: _____ **DATE OF DEPARTURE:** _____

Hotel Room Accommodations:

Conference participants are responsible for their own hotel accommodations. Reservations will be accepted on a first-come-first-served-basis only on this Accommodation Application form, which should be mailed directly to Group Reservations. All room rates are flat fees except where noted. There is no charge for children through age 18, when they occupy the same room as their parents. Please note these rates are based on the reservation deadline of **January 16, 2007**.

After the deadline date, all subsequent reservations will be subject to availability. The Group Reservations Manager will send you written confirmation of your reservation.

All reservations must be guaranteed by a first night's deposit. **DO NOT SEND CASH.** Advance deposit to be mailed to hotel with reservation form.

AMEX _____ DISC _____ VISA _____ MC _____ DC _____

Card Number: _____ Exp.Date _____

I authorize Crowne Plaza Williamsburg at Fort Magruder to charge my account for one night's deposit and all applicable taxes. Check-out time is 11:00 AM. Rooms may not be available for check-in until 4:00 PM.

Reservations request made by: _____ Date: _____

To cancel your reservation, call 757-220-2250. Deposits are refundable, provided notice of cancellation is received by the Crowne Plaza Williamsburg at Fort Magruder at least 48 hours prior to scheduled arrival.

Check-in time is after 4:00 PM. Check out time is before 11:00 AM.

MAIL RESERVATION REQUEST TO:

**Group Reservations Manager
Crowne Plaza Williamsburg at Fort Magruder
6945 Pocahontas Trail
Williamsburg, VA 23185**

Reservations may be made by mail or facsimile at 757-221-6982 Sorry, No Pets

Please Duplicate as Necessary

Directions for the Recertification January 17, 2007

LOCATION: Hampton Library

ADDRESS: 4207 Victoria Blvd., City of Hampton, Virginia

PHONE: 757-727-1154 (Library)

PARKING: Please park at the stadium parking lot across the street.

COMING FROM I-64 WEST

Take exit 267, make a left on Settlers Landing Road, proceed to bridge and through town, make a left on Kecoughtan Road, go two blocks, Hampton Library on your left. (Library is on the corner of Kecoughtan and Victoria Road).

COMING FROM I-64 EAST

Take exit 265A to Lasalle Avenue, make a right, go to Settlers Landing Road, make a left, go to Kecoughtan Road, make a right and go two blocks, Hampton Library will be on the left.

COMING FROM I-664

Take exit 265A to Lasalle Avenue, make a right, go to Settlers Landing Road, make a left, go to Kecoughtan Road, make a right, go two blocks, Hampton Library is on the left.

TMVCC Year End Summary

The TMVCC has had another successful year completed. We began with a rather slow spring and dry summer, only to have our cup runneth over after Ernesto this fall. We at the TMVCC would like to take a moment to sincerely thank all of our monthly meeting sponsors for their efforts this year. We really appreciate all the new information on products and techniques, as well as the chance once a month to talk to others and enjoy a meal with people from other mosquito control districts. Just one final reminder to TMVCC members, that the Customer Appreciation Day Luncheon will be held on Friday, November 17, at the Chesapeake Mosquito Control Operations Center, 900 Hollowell Road, in Chesapeake. We hope all can attend and thanks for another great year.

Mike Harrison, TMVCC Secretary

Newsletter Input

Have an idea of something that you would like to see in the newsletter?

Organizations and individual members are encouraged to submit news letter articles and or topics. Electronic submission should be sent to gwojcik@portsmouthva.gov in Microsoft Word or PDF format. Hard copy submission can be mailed to George Wojcik 2001 Frederick Blvd Portsmouth, Virginia 23704.

Deadline for submission are (December 1st)

Newsletter Committee

Committee Chair: George Wojcik

Regional Coordinators: Solicit, contribute, and coordinate input from their respective regions. (North East - Jennifer Johnson, Central - Randy Buchanan, South East - Lou DeMarco, South West - TBD)

Regular Contributors: Recognized mosquito control professionals that regularly take the time to write articles for the newsletter. Drs. Bruce Harrison, David Gaines, Jorge Arias.

Editorial Group: Proof read every issue prior to distribution. In 2005 the board of directors requested at least one board member participate. Regional Coordinators, Gary Tetreault, the entire board of directors.

Webmaster: Posts the electronic final version of each issue on the web page. Kirby Foley

New For This Issue

Thanks to some timely software updates we are not able to include hyper links in the text. All Blue text in this issue should have an active hyper link to an email address or web page. For those members reading this issue in hard copy I encourage you to seek out a computer and view the newsletter online. Many of the active links within the text provide additional reading material. Hope everyone enjoys.

George Wojcik

Virginia Mosquito Control Association Officers 2006

President: Jason Williams (757) 673-3932 jwilliams@mail.city.chesapeake.va.us
 President Elect: Agnes Flemming (757) 683-2824 agnes.flemming@vdh.virginia.gov
 Vice President: Randy Buchanan (804) 501-7332 buc06@co.henrico.va.us
 1st Vice President: Jennifer Johnson (703) 246-8404 Jennifer.Johnson3@fairfaxcounty.gov
 Secretary / Treasurer: JoAnn Beasley (757) 382-3453 jbeasley@mail.city.chesapeake.va.us
 Past President: Louis DeMarco (757) 382-3459 ldemarco@mail.city.chesapeake.va.us
 *MAMCA Representative: George Wojcik (757) 393-8666 gwojcik@portsmouthva.gov

* Denotes a non voting member of the board.

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**NEWSLETTER OF THE
VIRGINIA MOSQUITO
CONTROL ASSOCIATION**

900 Hollowell Lane
Chesapeake, VA 23320

Phone: 757-382-3450
Fax: 757-382-3466



www.mosquito-va.org

2007 VMCA Membership Application

*Membership payment is by calendar year and includes subscription to the VMCA Newsletter
"Skeeter. Memberships renew January 1ST each year*

NAME:	Regular	\$ 10.00
PHONE:	Associate	\$ 5.00
ADDRESS:	Student:	\$ 2.00
E-MAIL:	Organizational	\$ 15.00
ORGANIZATION:	Sustaining:	\$300.00
	TOTAL SUBMITTED	

Enclose proof of student status
Payable to: Virginia Mosquito Control Association,
% Jo Ann Beasley,
900 Hollowell Lane
Chesapeake, VA. 23320