



The Skeeter

Volume 69, No. 3

October 2009

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President's Message

This is usually the time when most of us look back and think...where did the summer go? As the mosquito season's end draws near, it's also a good time to think about off-season planning for 2010. I look forward to hearing many of your presentations at our 63rd annual meeting in Virginia Beach (Feb 17-19). President-elect Brian Prendergast is putting together, what I'm sure will be, an outstanding program. If you are interested in participating, please contact Brian.



Lane Carr
VMCA President, 2009

The VMCA will also host a recertification class for Category 6 (Right-of-Way Pest Control) Category 8 (Public Health Pest Control) and Category 60 (Registered Technician). The course is scheduled for January 13th in Hampton. Thanks to Leroy Bohn for his continued support and coordination of this course, and to JoAnn Beasley for her "behind the scenes" organization.

Dr. Gaines' recent arboviral update noted a record number of EEE positive mosquito pools this year. Cheers to the Norfolk Department of Public Health Laboratory (NDPHL) for their continued support in testing thousands of mosquitoes, and to all localities that persevered and got the job done. It goes to show that regardless of budget constraints, staff limitations and an increase in testing costs (RAMP included), whatever your specific role is, this a highly dedicated group of individuals whose collective efforts continue to protect Virginia residents from mosquito-borne disease. I am proud to serve as President of such an impressive group...thank you for allowing me the opportunity!

Hope to see you in February,

Lane Carr
VMCA President

Announcements

Important Dates:

Nov 12th	End of the Year Customer Appreciation Luncheon– Bayer/Adapco– Chesapeake Mosquito Control
Jan 13th	VMCA Recertification Category 6, 8, 60– Hampton Library– 4207 Victoria Blvd, Hampton, Virginia
Jan 19th-21st	MAMCA Annual Meeting– Savannah, Georgia
Feb 17th-19th	VMCA Annual Meeting– Virginia Beach, Virginia
Mar 28– Apr 1	AMCA Annual Meeting– Lexington, Kentucky

AMCA Webinar on How To Deal with the Media

If you weren't able to watch the webinar on How to Deal with the Media, Fairfax County's IT department was able to record it. It will be archived for 30 days. You can view it by clicking on the following link:

<https://www.1gotomeeting.com/register/822145489>. If you are interested in getting a copy of the presentation, you can contact the AMCA general office at amca@mosquito.org.

2010 VMCA Annual Meeting Presentation Submission

Please return completed form to Brian Prendergast at brian.prendergast@med.navy.mil
NO LATER than NOVEMBER 13, 2009.

Name: _____
 Organization/Affiliation: _____
 Address: _____
 Phone: _____
 E-mail: _____
 Title: _____
 Amount of time requested for presentation: _____
 Audio/Visual Equipment Needed (if other than PowerPoint): _____

Thank You for your support.

Special thanks to Ted Bean and Adapco Inc. for sponsoring the Spring Larval ID Class.

Significant Changes in Chesapeake

Gene Payne retired at the end of September. After an extensive interview process that involved the entire Board of Commissioners Joe Simmons was hired as the new Director. Lou DeMarco is still out due to his accident/injury. Kirby Foley is the new Operations Director. Jason Williams has moved to Texas with his wife. Biology has dropped from 3 Biologists to one Biologist and 2 Biology Technicians. Lisa Wagenbrenner was hired as the Chief Biologist (II) and Tanya Hodges was hired as a Biology Technician. Jim Lemnios retired as the District Supervisor of Greenbriar. Bobby Whitaker is currently serving as the acting Supervisor until that position is filled.

VMCA Award Nominations

Each year at the annual meeting, VMCA recognizes individuals or a group of individuals who have contributed to making the VMCA the best it can be. The Board is currently accepting nominations of members and peers who deserve recognition. Please send your nominations and supporting documentation via email to JoAnn Beasley, Awards Committee Chair, dojobeas@earthlink.net by **December 15, 2009**. VMCA awards include:

Outstanding Service Award: This award is given for service to a VMCA member considered outstanding by their peers. Only VMCA members are eligible.

Honorary Member: Any individual who has rendered exceptionally distinguished service in the field of mosquito control and related work may be accorded special recognition by election to honorary membership in the VMCA. Nomination for this honor must be justified in writing and submitted to the Executive committee for review. The Executive committee shall be required to vote unanimously to confirm the honorary membership nominee. Honorary members shall receive the VMCA newsletter, pay no dues and enjoy the same privileges as regular members.

R.E. Dorer Award: The R.E. Dorer Award is the highest achievement award of the Virginia Mosquito Control Association. Mr. Dorer graduated from Rutgers University in 1932 and moved to Virginia in 1933. From his position at the Virginia State Department of Health he spearheaded mosquito control efforts for over 50 years.

Mr. Dorer's success in mosquito control came through the State Health Department and as a Commissioner to the Virginia Beach Mosquito Commission for many years. He served as an unpaid technical advisor after his retirement. Mr. Dorer was an active member and past president of each of the following associations: Virginia Public Health Association, Virginia Mosquito Control Association, Mid-Atlantic Mosquito Control Association, and the American Mosquito Control Association. Mr. Dorer received the highest AMCA award, the Medal of Honor Award in 1981 for his exceptional contributions to mosquito control.

AMCA Announcement: EPA Webcast on NPDES

EPA hosted a Webcast to describe Agency efforts to develop a National Pollutant Discharge Elimination System (NPDES) general permit for discharges from the application of pesticides in the few remaining areas nationwide where EPA is the NPDES permitting authority. This Webcast was Wednesday, October 7, 2009, from 1:00 to 3:00 pm, Eastern time and was planned in preparation for the October 14-15 Pesticide Program Dialogue Committee (PPDC) meeting. EPA expects the 45 states that are authorized as NPDES permitting authorities to use EPA's general permit to guide them in developing and issuing their own permits. The Webcast covered current legal status of NPDES requirements for discharges, and current agency thoughts on general permit conditions related to the scope of general permits, Notice of Intent (NOI) for obtaining permit coverage, technology-based effluent limits, water-quality-based effluent limits, and monitoring, reporting, and record-keeping requirements.

A link to the Webcast will be available on EPA's NPDES training Web site at:

http://cfpub2.epa.gov/npdes/courseinfo.cfm?program_id=0&outreach_id=483&schedule_id=1072

Please be advised that Dr. Bill Meredith, AMCA Vice-President, is part of the EPA/state stakeholder working group that is in the process of developing this NPDES general permit. At present, working group members are under strict constraints by EPA with respect to what they are allowing to divulge to their various constituencies. Thus, this webcast was the sole means to obtain the most up-to-date information on the status of the draft permit. In addition, Joe Conlon is AMCA's representative to the PPDC and will be reporting to the membership on the results of the 14 October meeting.

EPA Legislative Update



United States Environmental Protection Agency
Office of Water, Office of Wastewater
Management Water Permits Division



September 2009

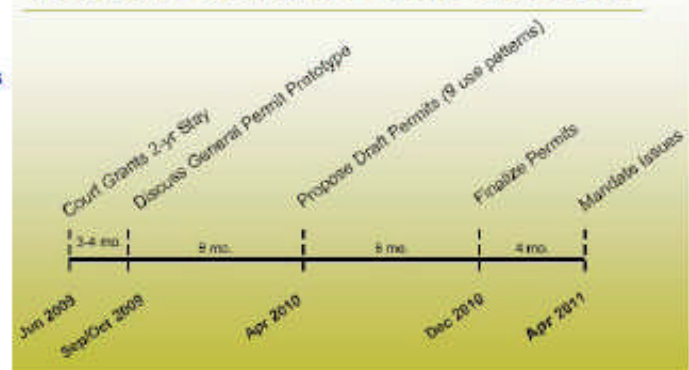
BACKGROUND

- On November 27, 2006, EPA issued a final rule to codify its interpretation of the CWA as not requiring NPDES permits for application of pesticides to, over, including near waters of the United States, if the applications are consistent with FIFRA requirements.
- Petitions for review of the final rule were filed in 11 Circuit Courts and on January 7, 2009, the 6th Circuit Court of Appeals ruled in *National Cotton Council, et al. v. EPA* that NPDES permits are required for all biological pesticide applications and chemical pesticide applications that leave a residue in water when such applications are made in or over, including near, waters of the U.S.
- On June 8, 2009, the Court granted DOJ's request for a two-year stay of the decision, until April 9, 2011, to provide EPA and states time to develop and issue NPDES permits and provide outreach to stakeholders on the implications of these actions. Until then, NPDES permits for applications of pesticides to or over, including near U.S. waters will not be required until after April 9, 2011.
- EPA estimates up to 5.6 million applications performed annually by 365,000 applicators using 500 different active ingredients will be potentially affected by the permit.

ACTION

- EPA expects to propose its general permit by April 2010 and issue a final permit by December 2010. The remaining four months until the Court's mandate takes effect will be used to provide outreach and education to the regulated community. (See chart below)
- EPA is collecting and analyzing data on pesticide labeling requirements, uses, and BMPs employed to minimize the impact of pesticides on water quality. EPA is also reviewing data on existing state water regulatory approaches to pesticides, including discharge permitting, water quality standards, and TMDLs.
- EPA will develop and issue a general permit for the states of MA, NH, AK, ID, NM, and the territories, tribal, and federal lands for which it has NPDES permitting authority.
- EPA will coordinate concurrently with the 45 NPDES authorized states as they develop their proposed and final general permits.
- EPA has organized a state workgroup including representatives from the Association of American Pest Control Officials and ASIWPCA for the purpose of sharing information and assisting with development of permit requirements. EPA has developed a draft NPDES prototype permit for the application of pesticides directly to, or over, including near waters of the United States. This prototype will be shared with the state workgroup in order to get a "reality check" from co-regulators regarding possible permit requirements. EPA will then share it with its Federal Advisory Committee, the Pesticide Program Dialogue Committee for additional stakeholder input. EPA is seeking early, informal input on the prototype. A formal public comment process will occur once the actual NPDES permit is proposed in April, 2010. The schedule for prototype outreach is below.
- State Dialogue
 - September 16 and 23 – Conference call with states
 - Sept 30 & Oct 1 - Face-to-face meeting (2 days) with state and EPA regional and headquarters representatives
- Stakeholder Review
 - October 7 - Webcast with Pesticide Program Dialogue Committee (PPDC) members (open to public) to present current general permit thoughts
 - October 14 - PPDC meeting to get feedback from committee on general permit information presented during webcast.

Pesticide General Permit Schedule



Virginia Arboviral Update

Human Arboviral Cases in 2009

To date in 2009, the Virginia's Division of Consolidated Laboratory Services Lab (DCLS) has tested specimens submitted from over 90 patients but has detected only one human arboviral illnesses. That was a case of LaCrosse encephalitis in a West Virginia resident who was cared for in a Virginia hospital.

Arboviral Surveillance in Equines and other Captive or Domestic Animals in 2009

EEE Surveillance: Arboviral surveillance in equines indicates there has been a great deal of Eastern equine encephalitis (EEE) activity in 2009. From early July to present, a total of eight equines have succumbed to EEE in Virginia. This is just short of our annual record of nine EEE positive equines set in 2003 when there was also a human case of EEE detected. The most recent equine case was in a horse from New Kent County (about 20 miles east of Richmond) with an onset of symptoms on 9/9/09. Other EEE positive equines have been from the following jurisdictions: Chesapeake (3 horses); Suffolk (2), Prince George Co. (1), and Southampton Co. (1). In addition to the EEE positive equines, there have been four other EEE positive animals detected including: 1 goat from Chesapeake, 1 alpaca from Surry Co., 1 emu from Chesapeake, and a captive exotic bird (fairy bluebird) from Norfolk.

WNV Surveillance: Equine arboviral surveillance efforts have also identified three West Nile virus (WNV) positive horses in Virginia. The first was from Pittsylvania Co. with an onset of symptoms on 8/17/09. The second was from Augusta Co. (onset on 9/3/09) and the most recent one was from New Kent Co. (several miles from the most recent EEE positive) (onset on 9/12/09). This is the largest number of WNV positive equines seen in Virginia since 2004 when 15 WNV positive horses were identified. The reasons for this year's increase are not clear as the infection rates detected in mosquitoes in locations (where we have surveillance programs) appear to be lower than at any time since 2001. None of these three equines had been vaccinated for WNV, so one possible explanation for the increase in cases is that the economic down-turn has caused more horse owners to forgo vaccinating their horses for WNV.

Arboviral Surveillance in Mosquitoes

EEE Surveillance: To date, PCR testing at the Norfolk Department of Public Health Laboratory (NDPHL) has identified 137 EEE positive mosquito pools out of 4,802 pools (203,887 mosquitoes) tested for EEE. Of these, 134 were pools of *Cs. melanura*, and three were other species (one pool each of *Cx. salinarius*, *Cx. pipiens/restuans*, and *Oc. canadensis*). The EEE positive pools come from the following jurisdictions: Suffolk (80 pools), Chesapeake (48), Virginia Beach (6), Newport News (1), Norfolk (1), and Portsmouth (1). As usual, the majority of the infected mosquitoes are being collected in Suffolk and Chesapeake which abound the Great Dismal Swamp. This year's number of EEE infected mosquitoes has surpassed the record number of 132 positive pools collected in 2005 (when 131 were *Cs. melanura* and one was *Cx. pipiens*), and this year's peak weekly minimum infection rate [MIR] of 4.77 in week 30, is slightly greater the peak rate seen in 2005 (see Attached Power-Point slide #1). Although the numbers of infected mosquitoes and their infection rate in 2009 appear to be higher than in 2005, the total number of infected *Cs. melanura* in the environment are somewhat less than they were in 2005 because the weekly numbers of *Cs. melanura* tested in 2005 were much greater.

WNV Surveillance: To date, PCR testing at the NDPHL and RAMP testing by several surveillance programs has identified 119 WNV positive mosquito pools out of 8,388 pools (291,534 mosquitoes) tested for WNV. Of these, 116 pools have been *Cx. (pipiens + restuans)* and three have been *Cs. melanura*. Mosquito surveillance by programs using the RAMP testing system in Fairfax County and Alexandria in Northern Virginia, and Henrico County in the Richmond Area have detected 105 of these WNV positive pools.

WNV positive pools of *Cx. (pipiens+restuans)* come from the following jurisdictions: Fairfax Co. (90 pools), Loudoun Co. (12), Alexandria (6); Virginia Beach (5), Suffolk (3), Henrico Co. (2), and Prince William Co (1). The WNV positive *Cs. melanura* came from Chesapeake (2 pools) and Suffolk (1).

Analysis of the WNV minimum weekly infection rate for Northern VA and the Tidewater Region indicate that 2009 is Virginia's lowest year of WNV activity since it's peak activity in 2002. The weekly MIR curve for WNV in Northern VA appears to be considerably lower than what was seen in Virginia in 2005 (Virginia's 2nd lowest year of WNV activity since 2002), and this might be due to the use of RAMP testing which detects a lower proportion of WNV positive pools than the PCR testing did in prior years (see attached PowerPoint slides). Loudoun County's surveillance data stands out from other Northern Virginia jurisdictions because the weekly MIR there appears to be higher than its neighbors and peaks at an MIR of 27 (the weekly numbers of tested pools in Loudoun Co. is relatively small so the high MIRs could, in part, be an artifact of low sample size). Loudoun County's pools are tested by PCR at the NDPHL. Conversely, Prince William county which also tests it mosquitoes by PCR at the NDPHL, and has only had one positive pool this season. Except for recent WNV activity being detected by sentinel chickens in Chesapeake, there have been no WNV positive mosquitoes collected in the tidewater region since mid August.

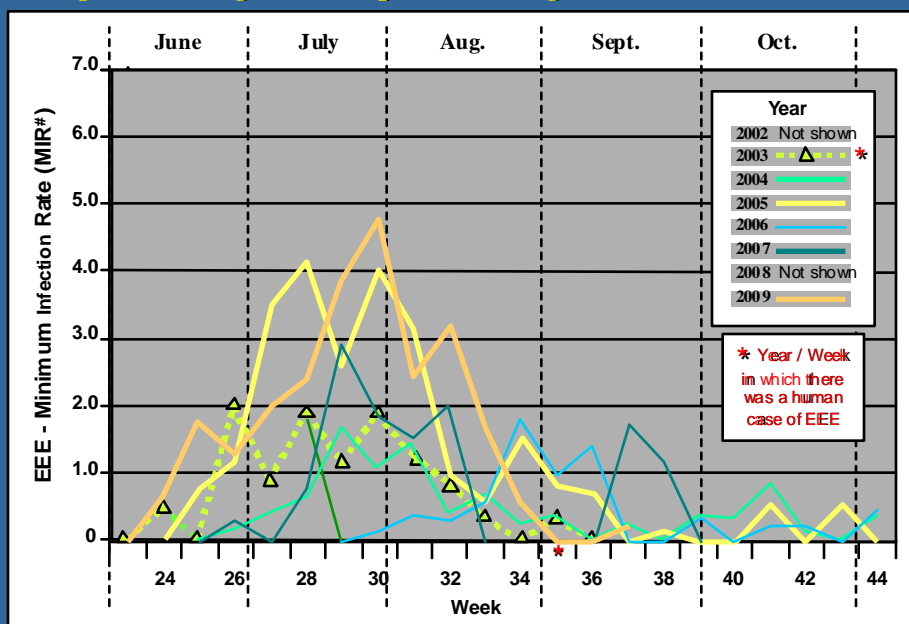
Arboviral Surveillance in Sentinel Chickens

EEE Surveillance: To date in 2009, there have been a total of 67 EEE positive sentinel chickens detected in VA by the NDPHL. These chickens come from 27 different flocks in the following jurisdictions: Chesapeake (24 chickens, 10 flocks), Suffolk (14, 8 flocks), Virginia Beach (10, 4), Hampton (3, 3), and Norfolk (3, 2) flocks]. The widespread distribution of flocks containing EEE positive chickens is evidence of the widespread dissemination of EEE in mosquito populations.

WNV Surveillance: To date, there have been 15 WNV positive sentinel chickens detected in VA in 2009. These chickens are from nine flocks in the following jurisdictions: Chesapeake (11 chickens, 7 flocks), and Suffolk (4, 2). The WNV positive chickens in Chesapeake is the largest number of flocks and chickens seen in Chesapeake since 2003 when WNV was at its highest recorded levels in the Tidewater region. The large number of recent WNV positive chickens is incongruous with the lack of WNV positive mosquitoes being found in the region.

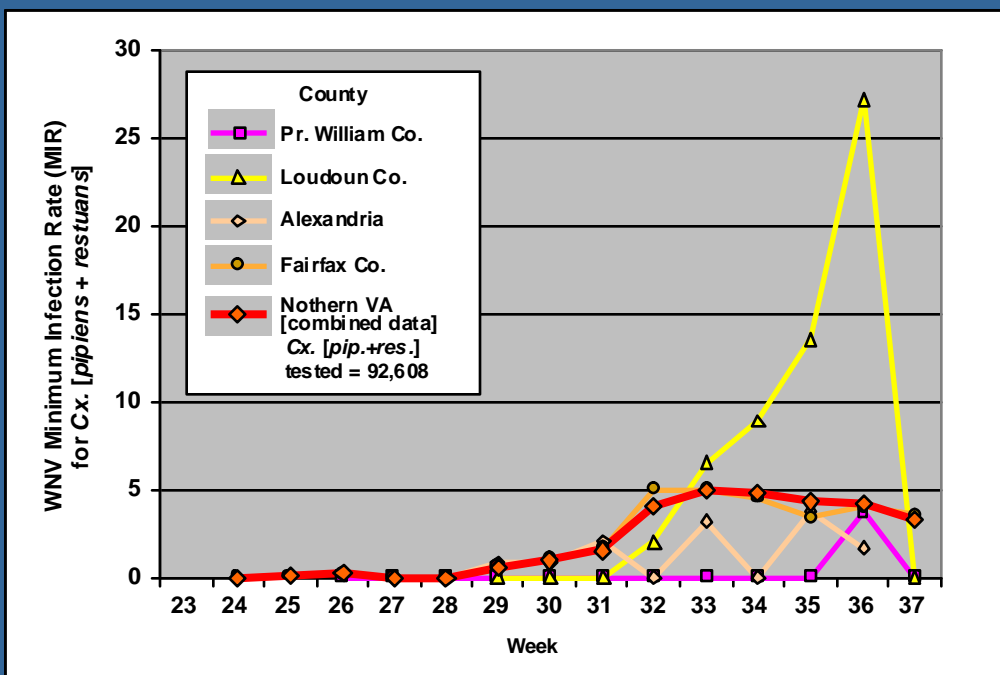
David N. Gaines, Ph.D.
 State Public Health
 Entomologist
 Virginia Department of Health
 Division of Environmental
 Epidemiology
 Richmond, VA
 804-864-8141

Weekly minimum infection Rate (MIR#) for EEE detected in *Culiseta melanura* mosquitoes in Virginia's Hampton Roads region from 2002 to 2009.



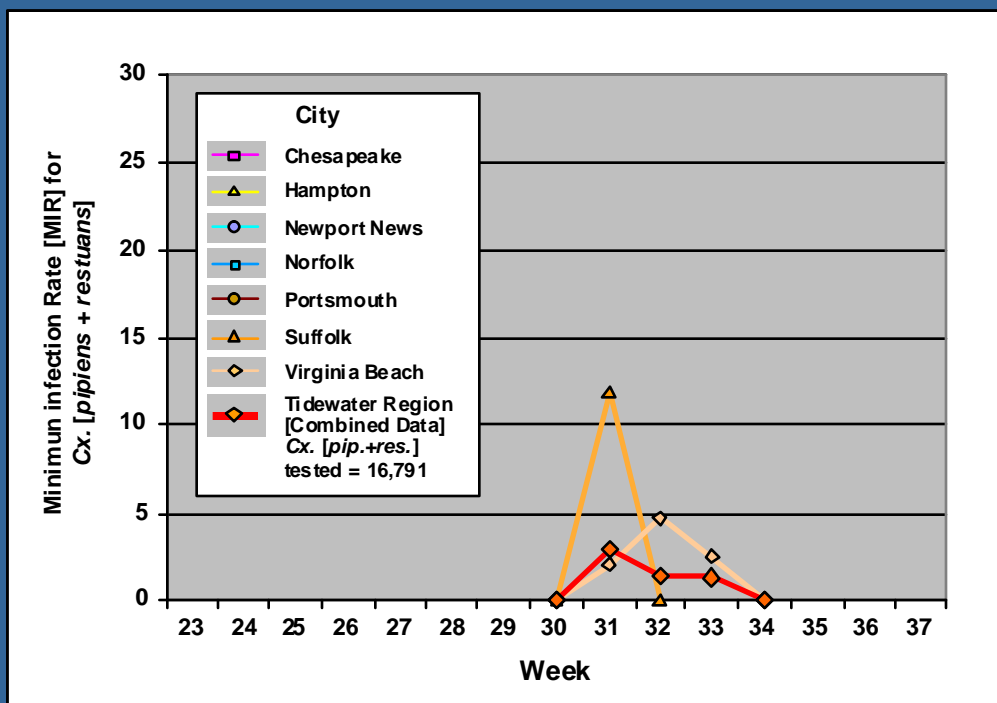
MIR = The minimum number of EEE positive mosquitoes present in 1,000 tested.

Weekly minimum infection Rate (MIR[#]) in *Culex [pipiens+restuans]* mosquitoes by Northern Virginia's Mosquito surveillance programs in 2009.



MIR = The minimum number of EEE positive mosquitoes present in 1,000 tested.

Weekly minimum infection Rate (MIR[#]) in *Culex [pipiens+restuans]* mosquitoes by Tidewater Virginia's Mosquito surveillance programs in 2009.



MIR = The minimum number of EEE positive mosquitoes present in 1,000 tested.

Fairfax News

National Night Out is Not Just for Cops

DCIP Staff , at the request of Delegate Bulova, joined in the National Night Out celebration over in the Burke community this August proving that this event is Not Just for Cops. Carl, Kylie, Rachel S and Rachel K worked this event with enthusiasm. We got Sharon Bulova to play with our cockroaches, had a photo shoot with Mcgruff the crime dog, climbed the rock wall and schmoozed Police Chief Rohr and Chairman Bulova. The citizens appreciated the mosquito repellent, the hand sinks and the Health Department for being part of this celebration.



Lyme Disease Awareness Month Proclamation

Board of Supervisors supports Health Department efforts in Lyme Disease awareness



Lyme Disease Awareness Month

In addition to the Board proclamation, DCIP joined with the Lyme Disease Association and victims of Lyme Disease at a 5K to heighten awareness of Lyme disease during May.



Mosquito Awareness Week 2009



Submitted by: Carl Sivertsen; Fairfax County

Fairfax News Continued

Eighth Annual Bridge Walk Draws Large Crowd



On the evening of August 29, 2009, a large crowd of Springfield area residents came out to watch or march in the 8th annual Amherst Avenue Bridge Walk/Parade. This year the normally-out-of-step-marchers were joined by a company of soldiers stationed at Fort Belvoir. The DCIP marching unit was led by Kylie Zirbel, with marchers Chris Eliff and Rachel Kempf. This threesome carried our colors proudly as the crowd waved and cheered as they marched by. Supervisors Jeff McKay, Pat Herrity and Sharon Bulova were among the many dignitaries that marched in the parade and visited with us at our tent. “This event is a lot of fun and it gives

us a chance to see some old friends and show the community that we are here for them” said Carl Sivertsen, a regular at this event. Josh Smith, a first time attendee, had a great time and looks forward to marching in the next parade in August.



Four H-Fair Thousands Visit EH / DCIP Tent

This year marked the 60th anniversary of the Fairfax County Four-H fair. In our 20’ x 20’ tent , DCIP staff provided guests with more than just helpful information. DCIP had tattoos for all to enjoy and even had the kids making their very own ticks. Everyone at this event was busy each day – but not too busy to have some fun. Some brave folks hit the stage for a little karaoke.

Kiley, Deise, and Maryam dove into the pie eating contest only to be beaten by a young lady who truly knew her way around pies.



Carl Sivertsen Presented with Environmental Excellence Award for 2009

On Monday September 14, 2009 Carl Sivertsen was awarded The Fairfax County Environmental Excellence Award. The award recognizes county residents, organizations, businesses and county employees who unselfishly dedicate time, energy and expertise for the betterment of the environment in support of countywide environmental goals and initiatives.

Since the establishment of this award in 2000 only four other County employees have been recognized for this honor. At the presentation the Board Members expressed their appreciation for his enthusiasm and commitment to community education. Carl feels "it is an honor to be recognized with this award."

Co-worker and supervisor Jorge Arias said that "Carl does the bulk of our community education and outreach and can be seen at almost every event that takes place in the County. It seems like no matter where we go or what we do, Carl knows everyone; Congressmen, cops, complainants, Board members (present and past), County employees and community leaders from across the County."



The Skeeter is the official publication of the Virginia Mosquito Control Association.

The VMCA membership is encouraged to submit articles, reviews, and any other interesting facts or tidbits for publication. Submissions can be sent to Jennifer Martin at mar98@co.henrico.va.us

Committee Chair / Production: Jennifer Martin, Henrico County

Distribution: Lane Carr, Henrico County

Regular Contributors: Dr. Jorge Arias, Dr. David Gaines, Dr. Bruce Harrison, Stan Cope

Editorial review: All the members of the board.

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VMCA organization mailing address
Make sure you send all forms to the proper address.

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 Email dojobeas@earthlink.net

The following article, highlighting Dreda McCreary, was recently printed in The Virginian-Pilot, written by Joanne Kimberlin

Dreda McCreary's mission: minimize mosquitoes



Inside a tiny brown building on Dam Neck Road, the Mosquito Lady and her apprentices poke through petri dishes and count bodies.

One mosquito... two mosquitoes... three mosquitoes... four...

This part of the job can be mind-numbing. But it's the only way to calculate just how thick the mosquitoes are and where to direct the defenses.

This year's survey is verifying what you already suspected: There's a bumper crop of blood suckers in town. Female mosquitoes are what matters because they're the ones that bite. Traps that normally average 50 or so this time of year are arriving at the lab with three times that many.

It's enough to impress biologist Dreda McCreary, but she has seen worse. She's been with Virginia Beach Public Works for 30 years, eyeballing the city's mosquitoes.

"Four or five years ago, we got 16,000 in one trap," McCreary said. "Now, that was something"

Timing is everything for mosquitoes. Strong rainfall in early spring followed by a stretch of heat gives them a foothold that can keep us swatting and itching all summer.

Annoyance is only part of it, though. Armed with tweezers and microscopes, McCreary's crew separates catches into species - Virginia has 56 - and plucks out samples of likely disease-carriers to send for testing.

The mosquitoes sleep through it all - twitching legs and needle noses piled inches high on plastic dishes the size of salad plates. A chemical-soaked cotton ball renders them dormant but not dead. Viruses are easier to detect in a living host.

McCreary's staff - three college interns and a part-time assistant - are on a city team that spends \$1.6 million every year, or about \$4 per resident, battling mosquitoes. They clear ditches, monitor sentinel chickens for viruses, spray to kill adult mosquitoes and spread larvicide to kill the young. No one expects to win the war.

Mosquitoes are time-tested survivors. They've been around for 400 million years and can breed in a quarter-inch of water, from 8,000 feet high in the Himalayas to 2,000 feet below ground in mines in India.

McCreary's best hope is for a draw. Each week, her team deploys 74 traps across the city. She shifts through a catch and points out the variety.

"Those tiny ones are Asian tigers - sneaky and hard to kill," she says with a touch of admiration. "And those big ones? *Psorophora ciliata*, but most people just call them Big Scary Mosquitoes. Just look at those hairy legs!"

At 51, McCreary has been bitten so many "thousands of times, my body doesn't even react to it anymore."

Spending her career surrounded by mosquitoes was not the plan when she moved to Virginia in the late 1970s from upstate New York. She was just a young biologist in search of a job: "And then, well, you start a family, and it seems like the next thing you know, it's 30 years later."

Along the way, she began to find her quarry "fascinating."

"I still do. I can't go on vacation and walk past a puddle of water without looking into it for larvae. For me, it's the small things. When other people are looking at the mountains, I'm looking under a rock."

The domain is a challenge - a 250-square-mile city that's part urban, part country, part swamp and part sea. Her lab is a 10-by-20-foot shed in the shadow of the public works building, located in the Landstown area.

It's cramped with equipment, filing cabinets, book shelves, awards from mosquito associations and this season's interns.

Bryant Wooden, a science student at Old Dominion University, rubs his microscope-weary eyes.

"Looking at 300 mosquitoes," he says, "can take a lot of patience."

In her line of work, McCreary says, success means nobody calls

"If you do a really good job, nobody really notices. They only notice when there's a problem."

MAMCA Update

The MAMCA Annual meeting is set January 19, 20, and 21 of 2010. The meeting will be at Hilton Hotel in Savannah, Ga. The Business meeting and Lunch/Banquet will be on Wednesday the 20th. The meeting is scheduled to adjourn Thursday 21st at noon. Please note that this meeting is Tuesday through Thursday instead of the normal Wednesday to Friday. It looks like Henry Lewandowski has got a good mixture of presentation topics to cover the technical, management, and basic field operations portions of our business.

We hope a lot of people from Virginia can make the meeting.

Kirby

TMVCC Update

Greetings Everyone,

Another busy mosquito season is winding down and the TMVCC had a very successful year. Two meetings remain ending with the Appreciation Luncheon. The luncheon will be held Thursday November 12th at Chesapeake Mosquito Control, 900 Hollowell Lane beginning at 11:00 A.M. and followed by a catered lunch. This event is sponsored by Ted Bean with Adapco and Don Botkin with Bayer. We will hold elections for vice-president and secretary. I hope to see everyone there.

Lisa Wagenbrenner, President TMVCC

Mosquito Fish

York County is committed to using natural control methods to reduce reliance on pesticide spraying for mosquitoes. We've implemented an aggressive fish management program by stocking mosquito fish in artificial impoundments, ditches, ornamental ponds, barrow pits and storm water retention ponds, and other places where mosquitoes breed.

This tiny fish devours mosquito larvae, reducing the numbers of adult mosquitoes. The technical name is *Gambusia holbrooki*, and are native to this region, commonly found in tidal areas and streams. They are related to guppies, and like guppies they bear live young. They are a hardy fish able to tolerate winter, overcrowding and poor water quality. Every year we transfer many thousands of fish within the County. To achieve this, we maintain a small fishery that specializes in mosquito fish production.

If you reside in York County and are interested in adding mosquito fish to your ornamental pond or know of a storm water pond near your home, contact us at (757) 890-3790. Mosquito fish are provided free of charge.

If you reside outside of our jurisdiction, please contact your local mosquito control, extension agent, or Virginia Game and Inland fisheries for further information.



2009 Virginia Mosquito Control Association Officers

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 * Denotes a non-voting member of the board.

2009 Organizational Members

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City of Newport News Marcus Leeper 505 Oyster Point Rd. Newport News, VA 23602 jleeper@nngov.com 757-269-2884	City of Portsmouth George Wojcik 2001 Frederick Blvd. Portsmouth, VA 23704 gwojck@portsmouthva.gov 757-393-8666	City of Suffolk Charles Abadam 441 Market St. Room 114, Suffolk, VA 23439 cabadam@city.suffolk.va.us 757-923-2049
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Henrico County Randy Buchanan P.O. Box 27032, Richmond, VA 23272 buc06@co.henrico.va.us 804-501-7332	James City County Rick Hall 115 Tewing Road, Williamsburg, Va wrhall@james-city.va.us 757-259-4116	Langley AFB James Will 1CES/CEOIE 37 Sweeney Blvd Langley, AFB James.will@langley.af.mil 757-764-3324
Langley AFB Mitchell Burcham 7154 Chapman Dr. Hayes, VA 23072 mitchell.burcham@langley.af.mil 757-764-3324	Navy Medical Entomologist Brian Prendergast, LCDR 620 John Paul Jones Circle, Suite 1100 Portsmouth, VA 23708 Brian.prendergast@med.navy.mil 757-953-0734	Prince William County Lewis Jones 4092 Merchant Plaza Suite A Woodbridge, VA fiones@pwcgov.org 703-792-6279
Town of Boykins R.S. JR Edwards P. O. Box 363 Boykins, VA 23827 townofboykins@charter.internet.com 757-654-6361	Virginia Department of Health Dr. David Gaines 109 Governor ST. P. O.Box 2448 Suite 516 Richmond, Va 23219 david.gaines@vdh.Virginia.gov 804-864-8141	York County Thomas Gallagher P.O.Box 531 Yorktown, VA 23690 gallagher@yorkcounty.gov 757-890-3791

Are you a director, manager, lead mosquito control person for your area? Consider signing up as an organizational member. The cost is only \$15 but includes one regular membership.

**VIRGINIA MOSQUITO CONTROL ASSOCIATION
PRE-REGISTRATION FORM
ANNUAL MEETING - FEBRUARY 17-19 2010**

NAME: _____

AFFILIATION: _____

MAILING ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

PHONE (WORK) _____ (HOME) _____

EMAIL: _____

REGISTRATION FEE SCHEDULE

Please check below:

Regular Member (inc. banquet)	\$85.00	_____
Organizational Member	\$85.00	_____
Non-member (inc. membership)	\$95.00	_____
Full-time Student	\$20.00	_____
Spouse/Companion (inc. banquet)	\$55.00	_____
One Day Fee (inc. banquet)	\$55.00	_____
One Day Fee (not inc. banquet)	\$35.00	_____

Registration fee includes coffee breaks, banquet and socials.

Registration at the door will be:

Regular & Organizational Members	\$ 95.00
Non-Member:	\$110.00

Please return this form by **JANUARY 11, 2010** to

Virginia Mosquito Control Association

Jo Ann Beasley, Sec./Treas.

179 Lilly Road

South Mills, N.C. 27976

Phone: 252-771-5221 or 757-508-5224

Fax: 252-771-5221(call prior to faxing)

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

**Please remember this registration is for the meeting only. The membership form is enclosed.*

The hotel reservation form is available on the VMCA website or follow this link [http://](http://www.starwoodmeeting.com/StarGroupsWeb/booking/reservation?id=0910139976&key=F330C)

www.starwoodmeeting.com/StarGroupsWeb/booking/reservation?id=0910139976&key=F330C

VMCA Recertification Course January 13, 2010

The Virginia Mosquito Control Association is sponsoring a re-certification course for Categories 6, 8 & Registered Technician (60) Wednesday, January 13, 2010. 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 **\$10.00 for VMCA Members, \$15.00 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 7, 2010.

REGISTRATION FORM FOR VMCA RE-CERTIFICATION COURSE JANUARY 13, 2010

Name: _____ Phone: _____ Fax: _____

Certification #: _____

Affiliation/Organization: _____

Address: _____

City: _____ State: _____ Zip: _____

Please make checks payable to: VMCA

Mail or Fax this form to JoAnn Beasley, Secretary/Treasurer VMCA, 179 Lilly Road, South Mills, N.C. 27976

Telephone: (252) 771-5221 or cell (757) 508 - 5224 **Fax: *(252) 771-5221 * Please call before faxing**

Should you have any questions or need further assistance, please contact either Leroy Bohn at (757) 204-4598 or Jo Ann Beasley at (252) 771-5221.

DIRECTIONS

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.

**Newsletter of
The Virginia Mosquito
Control Association**

Henrico County
Attn. Jennifer Martin
P.O. Box 90775
Henrico, VA 23273-0775
Phone 804-727-8358
Fax 804-727-8344



www.mosquito-va.org

2010 VMCA Membership Application

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

NAME:	Regular	\$ 10.00
PHONE:	Associate	\$ 5.00
ADDRESS:	Student:	\$ 3.00
E-MAIL:	Organizational	\$ 15.00
ORGANIZATION:	Sustaining:	\$300.00
	TOTAL SUBMITTED	

Enclose proof of student status

Mail this form to JoAnn Beasley, Secretary/Treasurer VMCA, Telephone: (252) 771-5221 or Cell (757) 508-5224

Payable to: Virginia Mosquito Control Association,
JoAnn Beasley, Secretary/Treasurer
179 Lilly Road South Mills, N.C. 27976
Phone (252) 771-5221 or cell (757) 508-5224 Fax (252) 771-5221
Email dojobeas@earthlink.net