



NEWSLETTER

by the OMCA Board Members

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September, 2012

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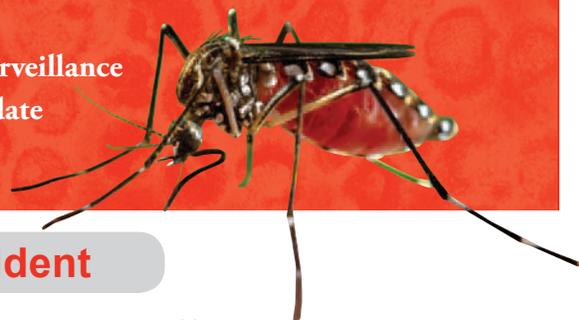
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Aedes albopictus Mosquito photo above by James Gathany.

All photos in this newsletter are by James Gathany or an unknown photographer and were obtained from the CDC.

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Message from the President

As I write this greeting, I am waiting for rain. If your summer was like mine, you spent your mornings checking the weather forecast for even the slightest chance of rain and watering a garden parched by weeks of unusually high temperatures. While not ideal for gardens and trees, the weather was perfect for growing *Culex* mosquitoes and other container breeders like *Aedes albopictus*. The good news is that this weather can't last forever and in the coming weeks, mosquito agencies around the state will be submitting their last samples of the season. Despite program cuts, statewide arbovirus surveillance continued where possible and was effective at monitoring increasing WNV infections in mosquitoes. This provided timely results for local mosquito control planning. I want to thank all of our cooperators who made that possible. For those people still collecting, The Ohio Department of Health will identify and test mosquitoes submitted through the end of September.

Ohio's West Nile virus activity in 2012 is shaping up to be the highest since our outbreak year in 2002 and mosquito minimum infection rates are approaching 20 percent. Just yesterday, August 29, 2012, Ohio reported our first death from WNV and the season may continue for several more weeks. Texas has been hit especially hard and is now reporting 733 cases and nearly half of the WNV deaths in the country. In an effort to reduce mosquito populations, Dallas County used aerial spraying for the first time in 50 years.

Labor Day weekend in Ohio again coincided with the Oral Rabies Vaccination (ORV) program where vaccine-laden baits are being distributed in northeast Ohio to vaccinate raccoons against rabies. This year, Ohio is participating in a field trial to test a new rabies vaccine bait, ONRAB®. This vaccine has been used successfully in Canada for over six years. Ohio users report it definitely smells better than the traditional vaccine as it uses marshmallow as an attractant rather than fishmeal. See inside for details about this year's baiting.

Our annual meeting is scheduled for Monday October 29th at the Days Inn and Suites in Richfield, Ohio. We have a one day agenda and will pack it full of useful information for our members. Inside this newsletter, please find the tentative agenda and conference registration form. If you are traveling from out of town, be sure to book your room early to take advantage of the group rate of \$72. If you can arrive on Sunday, please do so and visit with your fellow OMCA members from 7-9 pm in the hospitality room. Bring your stories from this season – we'll all have something to share.

Thank you all for your continued support of OMCA and I look forward to seeing you in Richfield.

Your President,

Mary K. Daniels

www.ohiomosquitocontrol.org

Remember to check the OMCA website for news updates, current and archived newsletters, annual meeting information and more!

2012 Annual Meeting Agenda

SUNDAY, OCT. 28

7:00 – 9:00 PM **Early Bird Hospitality**

SUNDAY

Annual Meeting 2012
October 29
Days Inn and Suites
Richfield, OH



MONDAY, OCT. 29 MORNING: Mary Daniels, Presiding

7:30 – 8:15 **Registration**

8:15 – 8:30 **Opening Remarks**

8:30 – 9:15 **Zoonotic Diseases in Ohio**
Kathleen A. Smith, DVM, MPH,
State Public Health Veterinarian
Ohio Department of Health

9:15 – 9:45 **Fixed Wing Aerial Application of Duet ULV to Suppress West Nile Virus Outbreak in Texas 2012**
Brian Deenihan
Clarke Environmental Services

9:45 – 10:15 **Scrap Tire Remediation – Grant Programs for Scrap Tire Removal**
Chet Chaney, Marti Kolb
Ohio Environmental Protection Agency
Office of Environmental Education

10:15 – 10:30 **Break**

10:30 – 11:00 **Considerations when Applying Mosquito Adulticides to Protect Honeybees**
Barbara Bloetscher, State Apiarist
Ohio Department of Agriculture
Reynoldsburg, Ohio

11:00 – 11:30 **To Be Announced - Core**

11:30 – 12:00 **Supplier Presentations**

12:00 – 1:45 **Lunch/Business Meeting**

MONDAY

MONDAY, OCT. 29 AFTERNOON: Mike Cooper, Presiding

1:45 – 2:45 **Mosquito Research at the OARDC: Discovering New Molecular Targets and Chemicals for use in Mosquito Control**
Dr. Peter Piermarini, Department of Entomology
The Ohio State University
Ohio Agricultural Research and Development Center
Wooster, Ohio

2:45 – 3:45 **Insect Seminal Fluid Proteins: Potential Tools for Pest Management**
Dr. Laura Sirot
Department of Biology, College of Wooster

3:45 – 4:00 **Break**

4:00 – 4:30 **Ohio Vector Borne Disease Update**
Richard Gary, Ph.D., State Public Health Entomologist
Ohio Department of Health

4:30 **Closing Remarks, Door Prize Drawing**

The opinions expressed by the speakers do not necessarily represent those of the Ohio Mosquito Control Association, its members, or the Board of Directors.

2012 US and Ohio Surveillance Summary



Nationally, as of August 28th, 1590 human cases of WNV, including 66 deaths, have been reported from 43 states. In addition, 15,925 mosquito pools, 1295 dead birds and 157 horses have tested positive.

Ohio has reported 52 human cases of WNV from 20 counties: Allen (2), Butler (1), Clark (5), Clermont (1), Cuyahoga (16), Franklin (4), Hamilton (5), Lorain (1), Lucas (3), Mercer (1), Miami (1), Montgomery (4), Putnam (1), Richland (1), Ross (1), Sandusky (1), Stark (1), Van Wert (1), Warren (1) and Wood (1) Counties. One Ohio death has been reported from Hamilton county and case numbers will likely increase before the end of the season.

To date, ODH has processed 170,455 mosquitoes into 5,536 pools for testing. The Ohio Department of Health Laboratory reports that 5,423 of these pools (162,553 mosquitoes) were tested for WNV and 1,038 pools were positive.

In addition to WNV, Ohio has so far reported six clinical cases of La Crosse encephalitis from 3 males and 3 females; ages 5-14 years, in Cuyahoga (1), Fairfield (2), Hamilton (1), Jackson (1) and Washington (1) Counties. All were hospitalized with encephalitis (4), meningitis (1) or fever (1).

Ohio's imported mosquito-borne diseases:
Dengue – 3 cases with travel history to El Salvador, Jamaica and Thailand.

Malaria – 32 cases, including 1 fatality, with travel history to African countries (21), India (6) and Haiti (1); 4 cases without sufficient travel information.

Mosquito and disease numbers change daily, so for the most up to date information, including clickable maps for individual diseases and historical data, check out the USGS website at: <http://diseasemaps.usgs.gov/>

Ohio Rabies Surveillance & ORV Update

As of August 31, 2012, 35 animals have tested positive for rabies: 33 bats and 2 raccoons (1-Mahoning, 1-Trumbull).

Surveillance remains a critical component in controlling raccoon rabies and evaluating the success of the Oral Rabies Vaccination (ORV) Program. Local health departments, veterinarians, and others working with wildlife are encouraged to submit sick or ill raccoons for testing. Continued success to control raccoon rabies means identifying any areas of infection quickly so control measures can be implemented.

The Oral Rabies Vaccination (ORV) Program is intended to prevent further spread of the raccoon variant rabies by vaccinating wildlife in northeastern Ohio. The multistate oral rabies vaccination (ORV) effort is coordinated by the United States Department of Agriculture's Animal and Plant Health Inspection Service, Wildlife Services (USDA-APHIS). Other cooperators involved in the Ohio effort include the Ohio departments of Health and Natural Resources (ODNR), The Ohio State University College of Veterinary Medicine, Dynamic Aviation and local health departments (LHDs).

ORV bait distribution began on August 24 in 14 northeast Ohio counties including Ashtabula, Columbiana, Geauga, Jefferson, Lake, Mahoning and Trumbull, and parts of Belmont, Carroll, Cuyahoga, Harrison, Monroe, Portage, and Summit. The immune barrier runs along Ohio's border with Pennsylvania and West Virginia from Lake Erie south to the Ohio River. The western edge is I-77 in Cuyahoga County. The aerial distribution was completed in record time – 3 days – as the weather over the August 24th weekend was excellent. Ground baiting by local health departments should be completed by September 7.

Baits are delivered at a density of about 75 to 150 baits per square kilometer. Most are delivered by specially equipped white Beechcraft King Air planes. They fly over rural areas along north-south flight lines at an altitude of about 500 feet. A helicopter is used to distribute baits in targeted urban and suburban areas, parks and preserves. Ground teams, consisting of LHD personnel and other local agency volunteers, deliver vaccine-laden baits in urban and suburban areas, mostly by vehicle. In all, about 776,000 vaccine-laden baits are distributed via airplane, helicopter and vehicle, covering about 4,448.84 square miles (11,522.44 km²) in Ohio.

In addition to the traditional coated sachets and fishmeal block baits, a new rabies bait, ONRAB[®], was distributed in Lake County and parts of Cuyahoga, Geauga, Portage and Summit counties. The ONRAB[®] bait has been used successfully in Canada since 2006 and Ohio is one of five states involved in this year's first, large field trial in the U.S.

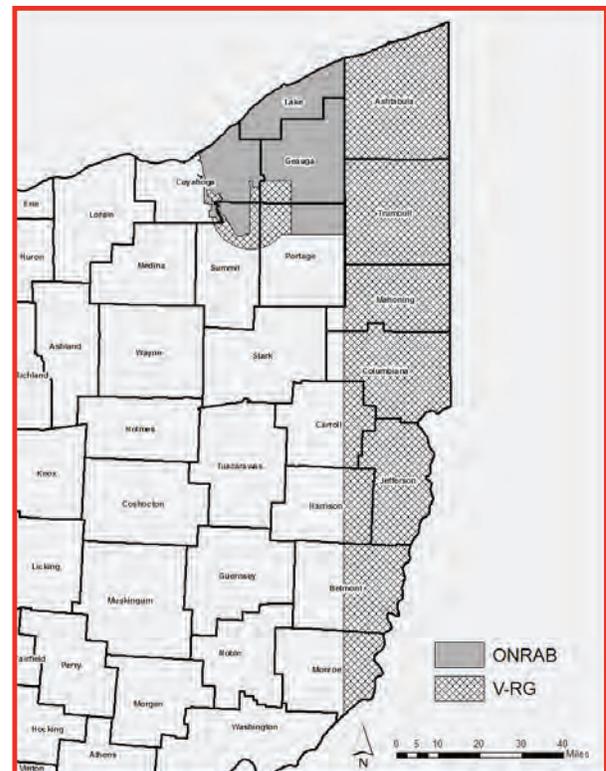
The ONRAB[®] bait consists of a polyvinyl chloride (PVC) blister pack, containing the vaccine. To make the baits attractive, the blister packs containing the vaccine are coated with a sweet attractant that includes vegetable-based fats, wax, icing sugar, vegetable oil, artificial marshmallow flavor and dark-green, food-grade dye.

For more information, please visit the USDA-APHIS or ODH web sites at

http://www.aphis.usda.gov/wildlife_damage/oral_rabies/rabies_vaccine_info.shtml

<http://www.odh.ohio.gov/odhPrograms/dis/zoonoses/rabies/orv/orv1.aspx>

Distribution of Oral Rabies Vaccination in Ohio



Call for Speakers

We are always looking for speakers for the OMCA annual meeting who cover topics of interest to our membership. Have you seen a great talk or do you know of anyone working on an interesting project who you would like to have come and talk at the OMCA meeting? If so, please contact Michael Cooper at cooper@health.athens.oh.us.

Newsletter Submissions

If you would like to highlight your agency, a special project or employee, consider writing a short sketch for inclusion in our next newsletter. Please contact Mary Daniels for more information- contact info may be found on the front cover.



OHIO MOSQUITO CONTROL ASSOCIATION

12300 Spruce Pointe
Strongsville, OH 44149

Grant-In-Aid Program

Grant-In-Aid is available thru OMCA for up to \$1,000 to fund projects related to vector biology, ecology, surveillance or control.

The Grant can be awarded to:

- Local or State mosquito control personnel
- Student research projects

Application requirements:

Please submit the following to the OMCA Board of Directors:

- Project description (1 page limit)
- Project time line (1 page limit)
- Project budget (1 page limit)*

**Travel funds to present project at the OMCA Annual Meeting may be included in the budget.*

Deadline:

All information should be postmarked by **May 1, 2013**.

Miscellaneous information:

- Example applications are available upon request.
- Recipients are awarded a one year OMCA membership.
- Recipients are expected to present results at the first annual meeting following your proposed deadline.

Please mail to:

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