



2012 IMVCA's 58th ANNUAL MEETING

November 15th and 16th, Hilton Garden Inn
1501 S. Neil Street, Champaign, IL 61820

PRELIMINARY IMVCA SPEAKERS 2012

By Jack Swanson, Program Coordinator

1. AMCA representative: Tom **Wilmot**, President or Jim **Stark**, North Central Regional Director
2. "Vector Surveillance and Disease Update in Illinois" Linn **Haramis**, IDPH, Division of Environmental Health
3. Ephantus Juma **Muturi**, Med. Ent. Program, INHS, Prairie Research Institute
4. Corporate talks-We are building 20 minutes in for each before breaks, banquet, and at end of Thursday or Friday. Please let program coordinator know if you want extra time or need all of the time allotted (email-Jack.Swanson@illinois.gov).
5. Bryan **Price**, Indiana State Department of Health
6. "The Distribution of Invasive Mosquitoes in Illinois" Jack **Swanson**, IDPH
7. District Reports (about 10 min. each)

If you have a talk you would like to present, **please contact Jack Swanson** (email: Jack.Swanson@illinois.gov) program coordinator, so space can be made available. Speakers are not in order of appearance and not all are confirmed. Titles may change prior to the meeting.

We'd like to organize district reports in a way that allows comparison. It will also help with the timing of reports, which should be no more than 10 minutes per district. We suggest your report follow the outline below (skip items that do not apply).

IMVCA District Report Guidelines

1. District Information
 - a. Size in square miles
 - b. Communities located within the district or general area covered
 - c. Population of district
 - d. District budget
2. Surveillance and Testing
 - a. Number & types of traps
 - b. Number of mosquitoes trapped
 - c. Predominant species of mosquitoes trapped
 - d. Did you find any invasive species?
 - e. Number of positive pools
 - f. Test(s) used
 - g. Number of dead birds
3. Treatment
 - a. Larval control products used and amounts
 - b. Adult control products used and amounts



- c. Source reduction projects
4. Public Relations and Outreach
 - a. Did you perform any active public information/education efforts?
 - b. What types?
5. Anomalies or strange occurrences?

STUDENT COMPETITION

By Joy Joyce, Student Coordinator

We invite the Directors of MADs and Public Health Districts, as well as faculty with interns and students (undergraduate and graduate) to speak at the **Henry Lawicki Student/Intern Competition** of our organization in Champaign on Nov. 15th and 16th. The Illinois Mosquito and Vector Control Association (IMVCA) will present \$300 to the winner and \$100 each to the two runners-up.

The Lawicki Student/Intern Competition will be scheduled between 10 a.m. and noon on Thursday, November 15th. Participants will have ten minutes to present a PowerPoint and five minutes to answer questions about their talk. All entrants will also be invited to the banquet on the evening of the 15th. The conference ends mid-day on Friday, November 16th.

For more information, readers can visit [http:// www.imvca.org](http://www.imvca.org). The IMVCA website has the previous year's agenda to provide an idea of the order of events. An updated agenda will be posted later in October.

Last year we had five excellent talks with one B.S., one M.S., and three Ph.D. students. We are interested in a broad range of topics dealing with arthropods of public health importance (vectors and nuisance). Why should students/interns participate? They are invited to participate in the annual meeting and may attend the evening banquet free, in order to give members an opportunity to interact with them. These are networking benefits for all.

If you have any interested interns or students please have them contact Joy Joyce <JOYLJOYCE@gmail.com>. Joy is the student/intern competition coordinator.

If you know anyone that fits, please give them a nudge to talk. Maybe they'll be buying you lunch the next time you see them.

Ramp Error #2 - Keep An Eye Out For This

NWMAD biologists (Tom Anderson) recently noted a few mosquito samples generated a RAMP error #2 message. There didn't seem to be any blood contaminating the mosquitoes and the samples looked like all the other ones. It was just one of those things that happen and you never know why. Tom went to the manual and ruled out all explanations for #2 errors, except for "Analyte level significantly higher than the upper reported range". He did a serial dilution and 2 of the dilutions came back as RAMP positive. At the same time Chris Xamplas of NSMAD mentioned he had come across the same thing in 5 of his samples Tom and Chris sent the 6 aberrant samples to the Medical Entomology Program at the Illinois Natural History Survey for RT-PCR testing. Each yielded Cycle Thresholds (CTs) in the lower 20s, which means there was a lot of virus in those vials. With one exception, these samples had the lowest CT values reported for the two MADs.



An abnormally high virus concentration in a sample could be due to many reasons. Most likely it is due to multiple positive mosquitoes in the pool. However, it could be the warm temperatures are promoting higher viral loads in the mosquito. Unfortunately, some people might interpret the initial RAMP failure as a negative.

At this point, the problem seems to represent a very small percentage of the samples. If you've experienced this, let Tom Anderson, Chris Xampas, or the IMVCA Newsletter know.

2012 is one of those "hot, dry years". It seems to have promoted the earliest amplification of West Nile virus in mosquitoes and throughout the state everyone is seeing more positive samples than previous years. Climate and weather are critical factors in regulating arbovirus transmission.

So what's the forecast like in your area?

Invasive Mosquitoes in Illinois: Asian Tigers and Rock Pool Mosquitoes expand their Distribution.

By Jack Swanson, Vice-President, IMVCA

The counties in Illinois that had reported *Aedes albopictus* for the first time in 2011 were Champaign and for *japonicus* McLean, DeWitt, Lee, Shelby, Christian & Sangamon. That brought the total number of counties reporting these invasive mosquitoes at least once to 36 for *albopictus* since 1986 and 25 for *japonicus* since 2006. We have not received any new county records for 2012 yet.

If time is available at the meeting I will provide a more detailed update of the distribution of these species.

Things to do in Champaign-Urbana (with a little humor)

1. See corn harvested
 2. See soybeans harvested
- If all crops harvested, then –
3. Watch sunrise
 4. Watch sunset, and
 5. See cows eat alfalfa and produce organic byproducts



And Now For Something Completely DIFFERENT!

FYI / Interesting Article:

Ticks causing mysterious meat allergy:

http://www.cnn.com/2012/06/20/health/meat-tick-bite-allergy/index.html?hpt=hp_bn12

On The More Serious Side (But still somewhat amusing)

The Arboviral Threat

When the air is hot and wet,
 There is one thing you can bet--
Culex will make you fret
 Each sunrise and sunset.
 Don't want a single casket!
 Don't want any regret!
 So these are things we must all abet--
 Get the horse to the vet!
 Cover the holes in the net!
 Sitting out at night is playing Russian Roulette!
 No time to sweat or get upset
 Use the DEET, or better yet,

Support your local MAD directorate

As the water levels start to plummet,
 Watch them treat catchbasins, roadside and offset.
 Don't worry about the budget or a little debt--
 One thing you absolutely can't forget
 Mosquitoes think you're the banquet!
 Don't put all your eggs in one basket.
 Use every single asset.
 If you don't heed this prophet,
 Best get a ticket to Tibet
 'Cuz the buzzing skeeter ain't et yet.

Update On West Nile Virus Activity In Illinois & The U.S.

As of July 23, 2012 Illinois has had **26 counties** reporting positive birds and/or mosquitoes with 22 reporting mosquitoes, 11 have had birds & 7 counties have had both. We have not had any vet/horse cases yet. On July 24, 2012 we have our first report of a human WNV case. Looking at past years for this week in July it looks most like 2005 when we had 252 people by that year's end. The July 25, 2005 report had **22 counties** with something, 16 with positive mosquitoes, 12 had positive birds & 7 had both. No reports of vet/horse or human cases had been reported.

As for the U.S. the July 24th report has 113 people with West Nile virus reported in 13 states. That is most similar to 2004 when there were 178 people in 12 states. The final human case count for 2004 in the U.S. was 2,539 people.

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