The summer season is upon us, as is our “busy time”. Does anyone remember when we had an off-time, a time to reflect and plan for the next season? Our meeting dates changed to allow the membership time to work on presentations after the busy time was over, but the introduction of WNV and the (expected) re-emergence of EEE have kept most of us busy right past Halloween, even into November. Our meetings come up, then it’s the holiday season, New Years, and before you know it you’re starting to wait for ice-out to start checking those wetlands again for larvae. Time to reflect now is in short supply, but it’s a necessary exercise.

As I look back at our industry, and especially in NMCA, I see some striking changes. WNV has produced some new and exciting research into infectious diseases. The introduction of exotic species into the Northeast has renewed interest into “native” species, and the impact the exotics will have on our old friends. But the most striking change has been at NMCA. New blood has come on board to offer new ideas, and to breathe life into old customs and traditions. The creation of the NMCA Benevolent Fund under the Charitable Committee is a new direction for NMCA, one that is making our mark worldwide. The stature of our Program has grown to the point where it’s used as a reference point by other organizations. Many of the names we have read about for years in the mosquito literature have come out to give presentations on new research, and offer their opinions on other areas of mosquitoes & their control.

I would ask each and every one of you to consider what NMCA has to offer, and to give us your insight as to the direction of the Association. We have a strong and qualified Executive Board (if I don’t say so myself) and we are always looking for new ideas and for help on Committees. See an Officer or Director (contact information is on page 2) and put your name in the hat – we’d love for you to join our Board!

My best wishes to everyone, and the hopes we’ll make it through another season together. I will see you in Saratoga Springs, NY before you know it!!

- Tim Deschamps, NMCA President
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FOR A LIST OF COMMITTEE CHAIRS AND ASSIGNMENTS, AND OTHER INFORMATION, PLEASE SEE THE NMCA WEBSITE AT www.nmca.org

~ NEWS YOU CAN USE ~

Check this issue for information on the upcoming Annual Meeting in Saratoga Springs, NY.

Be sure to book your room early, and work on that presentation now to get it in for the Program – it’s sure to be another great meeting!! Please see the Call for Papers and Call for Posters inserts in this issue!

SUPPORT NMCA

The NMCA Editorial Staff would like to thank the sponsors of this issue, and would like to ask the membership to take notice of the advertisements in this issue and please support our sponsors.

~ NOTE FROM THE EDITOR ~

IS IT TIME TO RENEW YOUR NMCA MEMBERSHIP??

Registration at any NMCA Annual Meeting includes the $20 NMCA dues for the upcoming year. If you have not been to a NMCA Annual Meeting lately (shame, shame – what a great time you have missed!) then it's time to renew. Please check the back of this newsletter next to your address label – if you see a round, red sticker with the words "RENEW TODAY" then you're overdue. This will be your last newsletter and you'll be dropped from the NMCA membership database. 😞

DON'T DELAY – RENEW TODAY!! A dues form is included in this issue.

DON’T DELAY – RENEW TODAY!! A dues form is included in this issue.
The 52nd Annual NMCA Meeting will be held at the Saratoga Hotel & Conference Center in Saratoga Springs, NY from **November 26-29, 2006**. Room cost for NMCA will be **$114 per night** (single rate – plus 13% tax) - please specify the "Northeastern Mosquito Control Association Annual Meeting" when you book your room. This special rate is only effective until **Oct. 27, 2006** please book soon!!

The Saratoga Hotel & Conference Center

534 Broadway
Saratoga Springs, NY 12866
Phone: (518) 584-4000
Fax: (518) 584-7430

Website: http://www.thesaratogahotel.com/

Look for the 2007 Annual Meeting information posted on www.nmca.org

~ NMCA SCHOLARSHIP & AWARDS ~

The NMCA Executive Board wants to remind everyone it’s not too soon to consider candidates for the various scholarships, grants and awards that the NMCA offers to the membership each year.

- **The Bob Armstrong Award**: is given to a NMCA member for meritorious service to NMCA and mosquito control
- **The McColgan Grant-in-Aid**: will go to an individual whose work is directly related to the advancement of operational mosquito control.
- **The Jobbins Scholarship**: will go to a student whose work is in an area relevant to mosquito or biting-fly control in the Northeast.
- **The Dave Scott Memorial Award**: This award may acknowledge an improvement in a procedure, a practice, any of the many operational strategies that we perform in mosquito control on a day-to-day basis.
- **The David H. Colburn Award**: This award is dedicated to David H. Colburn, charter member of NMCA, in recognition of his service to mosquito control and his perfect attendance for the first 50 NMCA Annual Meetings. NMCA members in good standing for at least 2 years and with 20 years consecutive or cumulative in mosquito control are eligible.

For more information on these awards, please contact **Tim Deschamps**, Scholarship/Awards Chairman at (508) 393-3055 or check the website at <www.nmca.org> on the Annual Meeting page.
FYI – PESTICIDES & GROUNDWATER

The United States Geological Survey published a report on March 3rd describing the results of their efforts to monitor streams and groundwater from 1992 – 2001. The report chronicles data documenting the occurrence of 75 pesticides in the nation’s water and can be found on the USGS website, www.usgs.gov. Of the 75 pesticides monitored, the vast majority were agricultural, with only malathion and permethrin having mosquito control uses. Furthermore, public health uses of these 2 pesticides were not delineated for their contributions to loadings. The study concluded that pesticide levels in the nation’s waters steadily declined over the period reviewed. Therefore, it can be assumed that levels have declined even further in the 5 years since the study was completed.

The USGS takes some pains to state that pesticides were detected in streams and groundwater in only trace amounts, generally at levels far below levels of concern for humans and the environment. In fact, less than 10 percent of streams draining agricultural and urban watersheds had concentrations greater than human-health benchmarks – primarily for the organochlorines. These findings were representative of ambient, untreated water, and not finished, treated drinking water. Pesticides were even less common in ground water than streams. It is also important for the mosquito control community to understand that the vast majority of the detections exceeding benchmarks for human health were for organochlorines such as DDT, chlordane and dieldrin. There was also a preponderance of detections of various amides and triazines. Malathion was noted at levels above benchmarks only in urban land-use settings. There was no attempt to characterize the usage scenarios that might have produced these levels. For the full report please check this link: http://pubs.usgs.gov/circ/2005/1291/

CALLING ALL MOSQUITO FOLKS FROM THE EMPIRE STATE – OUR MEETING THIS YEAR WILL BE IN SARATOGA SPRINGS, NY – SPREAD THE WORD!!

WE WOULD LOVE TO HAVE NEW MEMBERS JOIN OUR RANKS – NMCA HAS NOT BEEN TO NEW YORK STATE SINCE 1984 – FAR TOO LONG!!

SEND US YOUR IDEAS – BRING IN NEW MEMBERS – GET THE WORD OUT – GIVE ME YOUR TIRED, YOUR POOR, YOUR HUDDLED MASSES YEARNING TO BREATHE FREE......
The Morbidity and Mortality Weekly Report (MMWR) for June 30, 2006 / Vol. 55 / No. 25 has information on EEE in New Hampshire and Massachusetts, August-September 2005. From this report:

During August–September 2005, the New Hampshire Department of Health and Human Services reported seven cases of human eastern equine encephalitis virus (EEEV) disease, the first laboratory-confirmed, locally acquired cases of human EEEV disease reported from New Hampshire in 41 years of national surveillance. Also during August–September 2005, the Massachusetts Department of Public Health reported four cases of human EEEV disease, five times the annual average of 0.8 cases reported from Massachusetts during the preceding 10 years. Four of the 11 patients from New Hampshire and Massachusetts died.

In New Hampshire and Massachusetts, mosquito pools (i.e., collections of 50 mosquitoes sorted by species and sex) were homogenized and tested for the presence of EEEV by reverse transcription–polymerase chain reaction (RT-PCR). The New Hampshire Department of Health and Human Services tested 3,938 mosquito pools and determined that 15 (0.4%) pools from four counties were EEEV positive: 10 *Culiseta morsitans*, two *Culiseta melanura*, one *Coquillettidia perturbans*, one *Culex pipientis*, and one *Aedes cinereus*. The Massachusetts Department of Public Health tested 8,136 mosquito pools and determined that 45 (0.6%) pools from six counties were EEEV positive: 41 *Culiseta melanura*, two *Coquillettidia perturbans*, one *Culex pipientis-restuans*, and one *Ochlerotatus j. japonicus*.

For a complete copy of this report in .pdf please type this directly into your browser: http://www.nmca.org/mm5525.pdf
2006 West Nile Virus Activity in the United States
(Reported to CDC as of June 27, 2006)*

*Map shows the distribution of avian, animal, or mosquito infection occurring during 2006 with number of human cases if any, by state. If West Nile virus infection is reported to CDC from any area of a state, that entire state is shaded.

Data table:
As of June 27, 2006 avian, animal or mosquito WNV infections have been reported to CDC ArboNET from the following states: Arkansas, California, Florida, Idaho, Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Nebraska, New York, North Dakota, Ohio, Oklahoma, South Dakota, Tennessee, Texas, Utah, West Virginia, Wisconsin, and Wyoming.

Human cases have been reported in Colorado (1), Mississippi (1), and Texas (2).

Maps detailing county-level human, mosquito, veterinary, avian and sentinel data are published each week on the collaborative USGS/CDC West Nile virus web site: http://westnilemaps.usgs.gov/

Pennsylvania is not on the CDC list, but released a statement on June 28 indicating that a WNV-positive mosquito pool had been collected in Harrisburg, and another statement on June 29 indicating that a WNV-positive crow was confirmed in Westmoreland County. See http://www.westnile.state.pa.us/newsreleases/

USGS provides more detailed maps of the US than CDC, with data on a county scale re: samples submitted and positive test results for wild and sentinel birds, mosquitoes, human beings and animals of veterinary interest: http://westnilemaps.usgs.gov/
In this column, you will find mosquito and arbovirus news from the membership, from New England to New Jersey. Haven’t submitted anything for this issue? Look for the contact information at the end of this newsletter and submit news from your organization next time. A paragraph or two is all that’s needed. Give it some thought.

- Ed.

**Suffolk County (NY) Division of Vector Control** – Long Island has not been hit as hard by the rains as some other areas, but we’re still well above normal, especially in the East End. We had an early problem with *Aedes cantator* in a few places. In one area we had over 100/night in a New Jersey trap, but we think we found the source (clogged ditches) and did an effective ULV treatment to knock that down. We’re waiting to see what we get out of the salt marsh from our late June tide. We have had poor flying weather, and may not get the material out in time in some areas. A textbook example of why a strong water management program is better than relying on larvicides alone. Our Wertheim OMWM project continues to show good results, although we’ve found a few larvae. We hope to get back into water management in a major way once our Long Term Plan and EIS is complete. The EIS is out for public comment until July 19; have a look at www.suffolkmosquitocontrolplan.org. We think we’ve covered all the ecological bases, but in true New York fashion, I suspect a court will ultimately decide. Speaking of court, we are filing more papers in our Clean Water Act (CWA) lawsuit. We should know more on this by the late fall. No WNV activity yet, but it’s early.

- Dominick Ninivaggi, Supt.

**NJDEP – Office of Mosquito Control Coordination** – It’s June 28 and we are waiting to see if NJ Government "shuts down" as a result of the budget not signed by the June 30 deadline. It comes at a bad time too. As I type this, there is a brood on the marsh and the weather is keeping everyone grounded. The time window is closing and we may be facing our first major adult emergences in south Jersey. The recent (and constant) rainfall is washing the flood plains of the Passaic, Delaware, Raritan and all the secondary rivers and tributaries in the state. Once the water recedes...BOOM!

On a more positive note, recent training sessions were well attended by many of the county biologists to start up CDC bottle assay programs for adult insecticide resistance and RAMP system WNV surveillance. The state has sited 8 complete RAMP systems and several counties already own their own.

We are also about to launch our first field trials with our colonized copepods as larval bio-control agents. This will be the first time that copepods have been stocked at this latitude in the country.

Personnel turnover has resulted in some new Superintendents and Directors at some counties: Jen Gruener at Sussex, Greg Williams at Hudson (Glenn Levinson from Hudson to Middlesex), Wayne Wurtz at Gloucester and Art Jamieson at Camden. Welcome all!

Finally, the friends and family of Marty Chomsky are asking for donations to commission an artist to do a portrait which will hang at the Monmouth County Mosquito Commission. The Tick Surveillance Program that Marty instituted there will be named in his honor.

- Bob Kent, Administrator
RI Mosquito Abatement – Record rains in mid-May produced a bumper crop of Rhode Island mosquitoes and a bumper crop of phone calls. We’ve had 9 inches of rain in June, compared to the norm of 3 inches. For the seventh season, Altosid pellets are being applied to underground stormwater catchment basins by most of the 39 cities and towns. Statewide surveillance for EEE and WNV began June 5. Our new LGP excavator makes its debut on a Westerly saltmarsh in early July.

- Al Gettman

Central Mass. MCP – What a weather pattern so far!! Dry as a bone in the springtime, with one of the driest springtime’s on record. Then the skies opened up, and haven’t stopped yet!! In 6 weeks starting in early May, we have recorded the same amount we usually see in 6 months – 18”+ of rain!! The unprecedented weather patterns have created a unique situation in Central Mass. – spring brood, mixed with reflow, and now Cq. perturbans making their expected debut as the 4th of July holiday nears! Ae vexans are showing a minor decrease, but Oc. canadensis are still on the rise, and over the past 2 weeks Cq. perturbans have increased 884% (yes, you read that right, it’s not a typo). Cs. melanura and Culex are showing some peaks and valleys but continue to show some good numbers. Service requests are nearing record highs, and our surveillance team has been working gangbusters keeping up with the trap counts. As I look out the window now the sun is shining (for once), but as usual thunderstorms are predicted for the next few afternoons.

We are putting updated trap summary information each week on our website at http://www.cmmcp.org/06summary.htm. No virus has been reported to date in our area and only 1 isolate from a pool of Culex pipiens/restuans complex has been confirmed in the town of Needham on June 23.

I’m sure the weather will cool of in a few months, and we’re all looking forward to seeing you in Saratoga Springs this November!!

- Tim Deschamps, Exec. Director

Northeast Mass. Mosquito Control & Wetlands Mgmt District – From winter to vexans; While many areas had record spring broods this season, we virtually had no spring brood. How can this be you ask? Well I would like to tell you its because we did such a great job, but you know better. We had as much as seventeen inches of rain in some areas, we don’t have many river flood plains and most areas don’t have a lot of flood storage capacity, so most of it flushed off, presumably taking mosquito larvae and/or eggs with it. This is a rare occurrence, but we have seen it before in extreme rainfall events. What was left drew down quickly as trees were in full bloom, and previous to the flooding we had drought conditions. While the flooding was bad and many roads and bridges were damaged, from a mosquito control perspective we thought “what a way to start the season”, but it was short-lived. Additional rains on already saturated soil conditions has produced record vexans numbers.

Tides are running low this season, nothing over eleven feet which has never happened before in anyone’s recollection (tell me again about sea levels rising and global warming) so we probably won’t have a lot of salt marsh mosquitoes.

- Walter Montgomery, Supt.
Norfolk County MCP – Well...another spring and summer to throw a new loop our way. All our greatest dreams of a light spring and early summer were smashed after the second driest March/April on record turned into the Poseidon adventure in May through June. Coming up to, and for a few weeks after our spring aerial larvicide (April 18-20), we were seeing the lowest wetland levels any of us here had ever seen and very low larval counts in most areas where there was water. But for the third year in a row our spring aerial efforts were thwarted by flood-plain floods post application. The first one was from May 12-16 where we received around 6-7 inches of rain in the district. This produced fantastic numbers of larvae in the traditional flood plain wetlands bordering the Charles and Neponset Rivers. We conducted a subsequent aerial larvicide (May 22-24) to try and hit as many of these hot spots as possible. It was our first summer-type aerial larvicide in over 8 years and we were able to test our GIS capabilities for this type of application. In general it went smoothly, but we learned a great deal about edge of wetland breeding and the need to re-draw our GIS shapefiles to force the pilots to fly parallel to the edge and not perpendicular to it as they did in most cases. We killed huge amounts, but nevertheless the Ae. vexans emerged the first week of June. Just in time to start the ULV season off with a bang.

Then on June 1-4, 3.5 more inches of rain Then on June 7 another 3.5 inches of rain and another flooding of the flood plains and more breeding. This produced huge numbers of Ps. ferox in the Norwood area.

And then on June 23-25 we had 3.0 more inches of rain and another flooding of the floodplains. And earlier today (June 27), we discovered new 1st instar larvae in areas previously flooded in the last two floods. The adults in these areas are as bad as we have ever seen them and the calls match the severity. We have had people call, e-mail, fax, call Boston to get our private line, and finally drive to the office to request in person. Some have commented that they have put us on auto redial and waited hours to get through. Record number of calls to this point for any year in our districts history. And then to add to the fun, we had a positive WNV pool in Needham reported to us today, with ensuing press release to follow. This will help the morale around here immensely.

- Dave Lawson Asst Director
DID YOU THINK YOU MISSED OUT??
IT’S NOT TOO LATE!!

NMCA T-SHIRTS ARE GOLF SHIRTS ARE STILL AVAILABLE

$6.00 FOR THE T-SHIRTS
$15.00 FOR THE GOLF SHIRTS

WHAT A DEAL!!

NMCA CALENDARS FROM THE 2004 PHOTO SALON ARE STILL AVAILABLE

$5 EACH (1/2 PRICE!!), AND ALL PROCEEDS ARE PLACED INTO THE NMCA BENEVOLENT FUND

THANKS TO JEFF O’NEILL FROM WELLMARK INT'L FOR TOTAL SPONSORSHIP!!

PLEASE E-MAIL US AT nmca@nmca.org FOR MORE INFORMATION!!
The AMCA 73rd Annual Meeting will be held in Orlando, FL from April 1 - April 5, 2007. Hotel information: The Peabody Orlando - <www.peabodyorlando.com> - 9801 International Drive, Orlando, Florida 32819 1-800-PEABODY Room rate: $125/night

Keep checking the AMCA website at www.mosquito.org for more information on these and other events.

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Geographic Information Systems Specialist
True North Mapping

ALSO:
As of January 1, 2006, the AMCA Headquarters has moved
Please note the new address and phone number of AMCA Headquarters:

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*thank you in advance for any and all ideas - Ed.*