

# NC REPORT

MAMCA/TN 2016

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# State of North Carolina MAMCA Report

JAN 2015-FEB 2016

(Submitted by Dennis Salmen)

## **State Climate**

- Rainfall patterns from MAY-AUG varied from average in the mountains to moderate drought in the central Piedmont to record rainfalls in the coastal areas.

For SEPT-DEC, rainfall was well above average for the entire state especially for the central Piedmont and the coastal areas. Wilmington(coast) saw its 2<sup>nd</sup> wettest(14.77") November on record while Charlotte saw its wettest (10.0") November ever. Rainfall in much of the state has continued to exceed seasonal monthly averages from OCT 2015-FEB 2016 which should impact spring mosquito population activity in 2016.

- Temperature patterns were average (up til OCT) statewide with the exception of south and Piedmont NC where 6 southern counties reached moderate drought stage level by late JULY due to both little rainfall and record high temperatures. In one 11 day period between JUN 14-24, Charlotte saw high temp readings of 97-101 degrees on 9 of 11 days. Since October(2015), winter monthly temperatures have been dramatically above seasonal monthly averages w/ some cities reporting temperature increases of 23% or greater above historic averages.

## **Mosquito activity statewide**

Mosquito activity was average in the Spring for much of the state but by early May, activity in central part of the state was considerably below average activity seen in past years. This occurred with both peridomestic and non-peridomestic mosquito species. However, coastal areas saw activity well ABOVE AVERAGE all the way into the winter months with record complaint levels in counties such as Brunswick and New Hanover. In fact, some coastal programs were still operating with complaint investigations and surveillance into the month of December. This contrasts with counties like Mecklenburg County(Charlotte) where seasonal mosquito complaint activity was the lowest seen in more than 29 years.

## **Mosquito Arboviral activity statewide**

### Human

West Nile- 4 cases

La Crosse- 10 cases

Chikungunya- 14 cases (all travel-associated)

Malaria- 27 cases (all travel-associated)

Dengue Fever- 2 cases (all travel-associated)

Zika- 7 cases (all travel-associated, JAN 2015-MAR 23, 2016)

### Non-human

Eastern equine- 5 veterinary cases; 1 sentinel(chicken) case

## Other NC activities

NC recently completed a survey of local cities and counties and compiled a list of local mosquito control programs still active in N.C. This was done in response to an AMCA request for states to provide a current list of local mosquito control programs. NC currently shows 94 local mosquito control programs in North Carolina. The survey did not identify the level of surveillance, education, control, and other integrated mosquito management components, but hopes to survey the 94 programs for this in 2016.

The new taxonomic mosquito key “**Mosquitoes of the Mid-Atlantic Region: An Identification Guide**” (by Harrison, Byrd, et al) is now available. Purchase information is available on the NC Mosquito & Vector Control Association website at <http://www.ncmvca.org/>.

The NC Department of Health & Human Service (DHHS) has created 2 new Medical Entomologist positions which will reside within the State Division of Public Health (DPH). The positions have been posted on the State’s job position page ( <https://www.governmentjobs.com/careers/northcarolina>) and the deadline for application was March 28, 2016. This initiative was undertaken in response to the continued concern with the potential for local Zika transmission and in response to a CDC prescribed need(?) that *Aedes aegypti* incidence needs to be determined in southern states at risk to present and future Aedes transmitted human disease (e.g. Zika, Chikungunya).

The NC Mosquito & Vector Control Association held its 50<sup>th</sup> annual conference in NOV 2015. The 2016 conference will be held in Carolina Beach NC, NOV 14-16, 2016.