

Norfolk County Mosquito Control District Weekly Report

Epi Week 27 (July 3 – July 9)

Report prepared by Kaitlyn O'Donnell, Nate Boonisar, and Dave Lawson

Pools submitted:

<i>Species code</i>	CAN	MEL	PER	PRE
<i>Number of pools</i>	2	0	3	27
<i>Number of individuals</i>	70	0	187	1720

Mosquito Activity:

There was a decrease in total mosquito numbers this week compared to Epi week 26. The same few traps continue to be the most productive and are all located on the outskirts of more urban areas near large cattail swamps. The most abundant species in traps were once again *Culex pipiens/restuans* complex and *Coquilletidia perturbans*. The third most abundant species, behind *Cx. pipiens/restuans* and *Cq. perturbans* by a large margin, was *Och. canadensis*, with numbers well above where they were last year at this time. Very few *Cs. melanura* were found in traps this week, well below where they were last year during Epi week 27. *Ae. vexans* and *Och. japonicus* are both being trapped at much lower numbers this year than during 2015, though small numbers of each species are still encountered each week. Though numbers of *Och. excrucians* never peaked as high as they did in 2015, this species seems to be lingering longer into the summer than in 2015. The saltmarsh mosquitoes *Och. taeniorhynchus* and *Och. cantator* were found in small numbers in Quincy this week. However, there was no *Och. sollicitans* activity observed this week.

Weather report:

Temperatures were above normal to start the week, with Wednesday rising above 90 degrees, then fell to well below normal later in the week with highs not reaching 70 on Saturday.

Rainfall continued to be rather light this week with most of it occurring on Tuesday. Amounts for the week ranged from around an inch in the far southwest corner of the District, to under a quarter inch in the eastern part of the District. Rainfall deficits continue to increase with 30-day rainfall at 10-50% of normal, with the largest deficits located in the east. 60-day and 90-day rainfall stands at 25-50% of normal throughout most of the District.

Total weekly rainfall: 0.37 inches
Total Monthly rainfall: 0.65 inches
Total Yearly rainfall: 17.19 inches

Requests for service:*Check water requests*

To date	521
Epi week 27	0

ULV requests

To date	3464
Epi week 27	280

Control Response/Intervention:

The NCMCD continues to apply larvicide to catch basins in the more urban communities of the District to control *Culex* spp., as well as applying ULV aerosol for adult control in response to resident requests. A steady amount of requests from residents to pick up used tires continues. Ground larviciding requests have been suspended due to dry conditions across the District and the lack of larvae in any remaining wet areas. Salt marshes with known breeding sites were checked and treated on July 5th and 6th. Where some residents are routinely requesting ULV applications, we will soon start setting supplemental CDC traps to verify that a genuine mosquito problem exists.

Outreach:

Entomologist, Kaitlyn O'Donnell gave a talk about mosquitoes and ticks in Wrentham on Monday July 11, 2016.