NORTH SHORE MOSQUITO ABATEMENT DISTRICT
Weekly Report

Surveillance Results For: 07/02/2017 - 07/08/2017 **Date of Report:** 07/12/2017
Week Number: 27

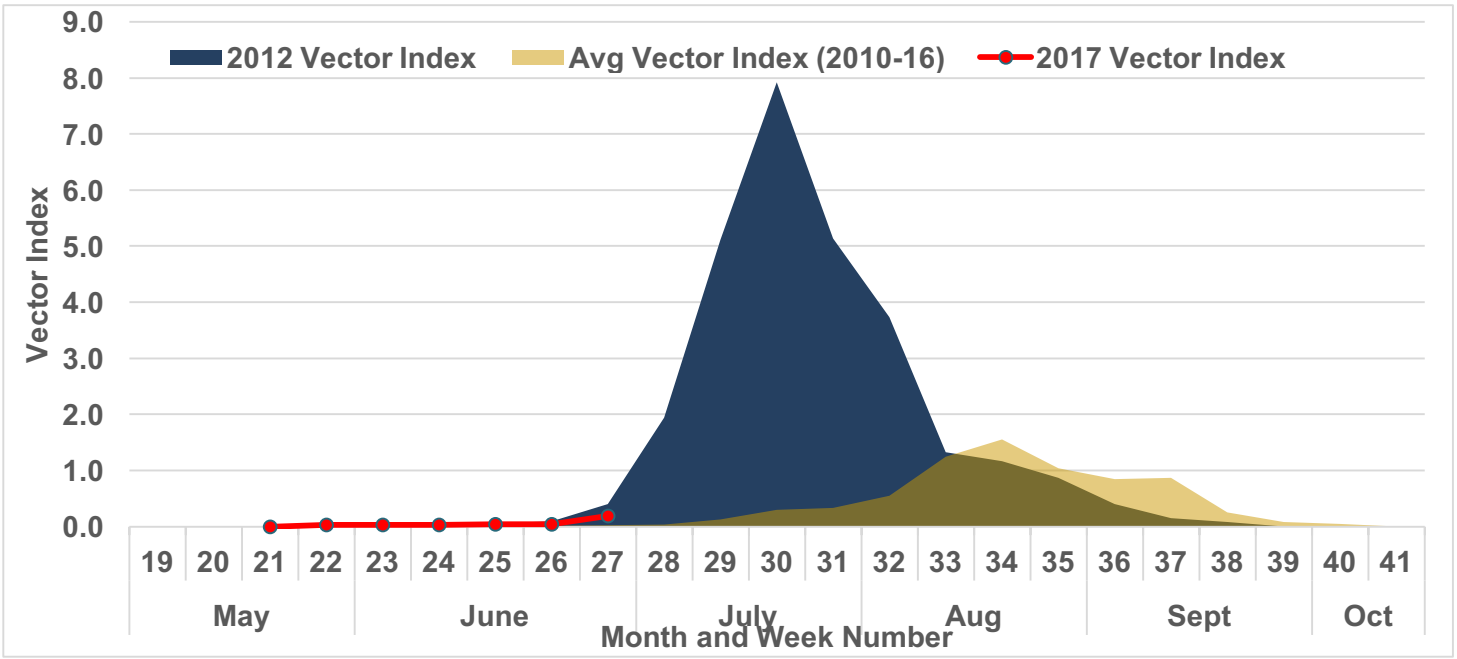
West Nile Virus Surveillance

WNV Risk Level: WNV positive mosquitoes were detected for the first time this season in Kenilworth and Northbrook during week 27. We now have detected WNV infected mosquitoes in 13 of our 19 gravid trap locations in the district. WNV activity is slightly above average for this time of year and we expect it to increase over the next several weeks. Though risk of human infection remains relatively low, residents should be advised to take precautions to avoid mosquito bites.

	Batches Tested This Week		Batches Tested Season Total	
Municipality	**# WNV+**	**# Tested**	**# WNV+**	**# Tested**
Evanston	7	28	13	**120**
Glencoe	0	1	0	**20**
Glenview/Golf	0	7	2	**34**
Kenilworth	1	8	1	**25**
Lincolnwood	0	10	2	**51**
Morton Grove	4	9	7	**34**
Niles	1	3	2	**20**
Northbrook	1	3	1	**12**
Northfield	0	2	0	**13**
Skokie	3	24	8	**88**
Wilmette	0	3	0	**14**
Winnetka	0	3	0	**20**
Total	**17**	**101**	**36**	**451**

WNV Vector Abundance and Infection Rate: *Culex pipiens* abundance increased from 34 per trap night during week 26 to 47 during week 27, which is above average for this time of year. The WNV infection rate increased from 1.2 infected mosquitoes/1000 tested during week 26 to 3.9/1000 during week 27, which is also slightly above average for this time of year.

Vector Index: The Vector Index during week 27 was 0.2 which is slightly above average for this time of year but remains below levels of concern.

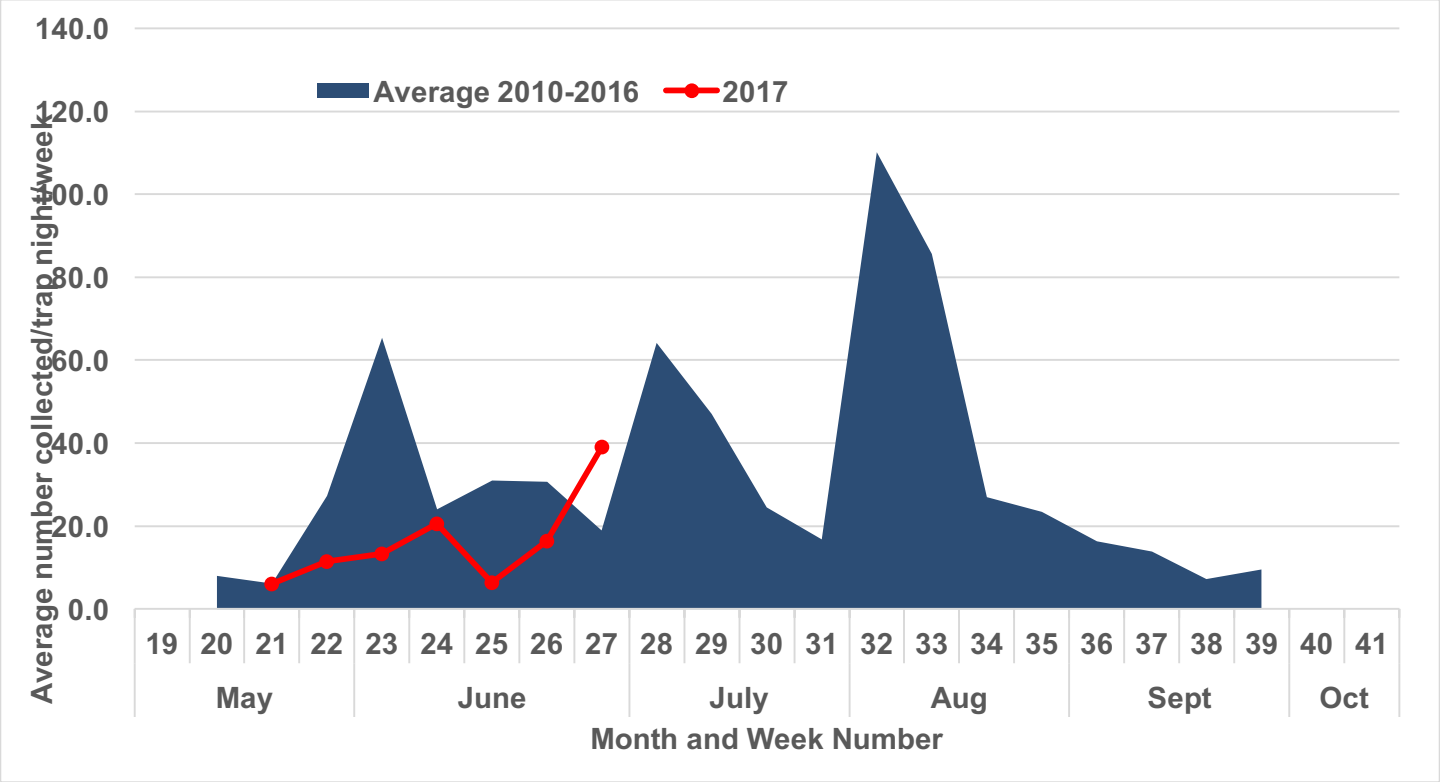


Vector Index during most recent outbreak year (2012), average of non-outbreak years 2010-2016 and current year 2017.
Vector Index = estimate of the number of WNV-infected *Culex pipiens* collected per trap, per day.

Nuisance Mosquito Surveillance

Surveillance Data: Due to the intermittent rain events over the previous several weeks, nuisance mosquito abundance increased during week 27 to an average of 39 collected per trap night. This is above average for the district. Higher abundance may occur in some localized areas near forest preserve sites or other floodwater habitats. The greatest increases in abundance were found in our NJLTs in Glencoe, Glenview and Northfield.

New Jersey Light Trap Collections



Aedes albopictus Information

During week 27, two *Ae. albopictus* were found in a BG Sentinel Trap deployed in the neighborhood where this species was first detected at the end of the 2016. We are continuing to trap in the area to determine the extent of the population.

Human Surveillance

No human cases of WNV have been reported in 2017 by the Illinois Department of Public Health.

Larval Control and Source Reduction

Let us know if/when there is any scheduled/emergency catch basin cleaning within your community.

The second round of larvicide treatments on public and off-road sites has begun. Monitoring and treatment of flooded woodland areas will occur as needed based on precipitation.

Adult Mosquito Control Operations

There were no adult mosquito control operations during Week 27. Please see our website for the most current information about adult control operations.

Public Information

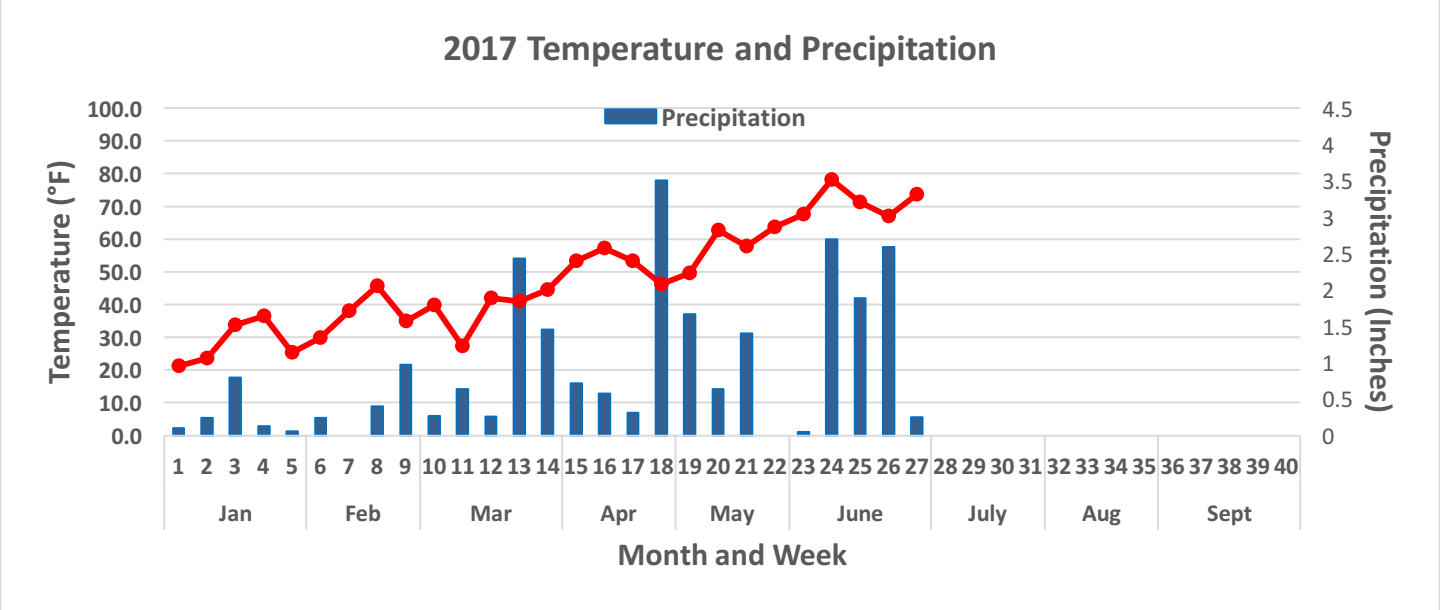
Inspect your property for items that may contain water and drain or discard them. If it can hold water, it can breed mosquitoes.

Executive Director, Roger Nasci and Communications Manager, Dave Zazra presented and overview of the District to the Northfield-Winnetka Rotary Club on Thursday, July 6.

Contact us if you would like the NSMAD public information booth to appear at an event or if a presentation regarding mosquitoes and public health would be helpful to your community.

Weather Monitoring

Rainfall during week 27 totaled 0.25 inches though a number of floodwater sites remained active due to the persistent rains over the previous three weeks. Larval control operations continue to target these habitats. Average temperatures increased during week 27, which accelerated mosquito production in some areas.



Source: NOAA Station: Chicago Botanical Garden, IL US GHCND:USC00111497

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