



NORTHWEST MOSQUITO ABATEMENT DISTRICT

Keeping the community safe

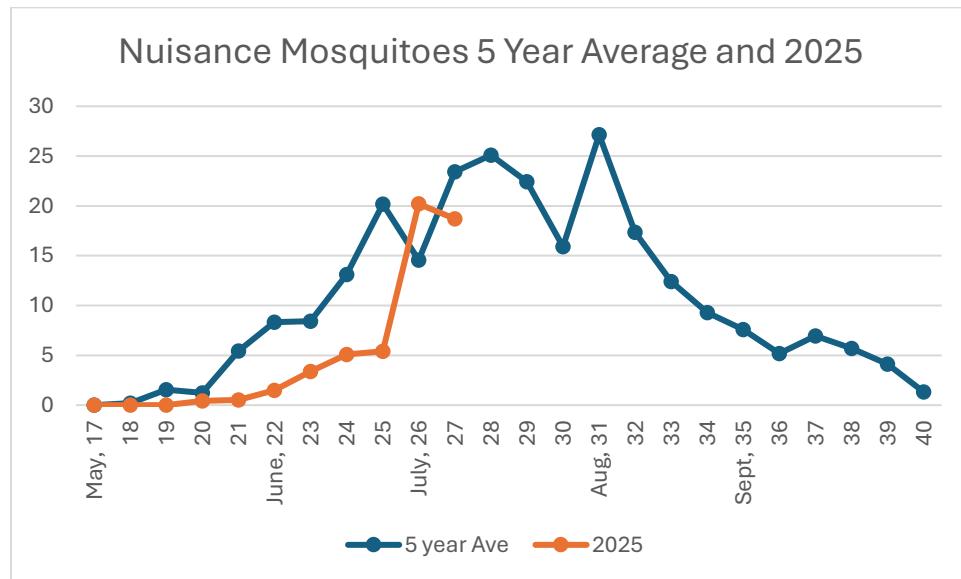
Weekly mosquito report for week 27

Mosquito Surveillance:

Northwest Mosquito Abatement District operates 31 mosquito traps throughout the 242 square miles we cover. These traps help us track mosquito populations and West Nile virus. Traps run continuously from May 1 until October and mosquitoes are collected everyday Monday through Friday. All mosquitoes are identified to species. We test certain mosquito species for the presence of West Nile virus.

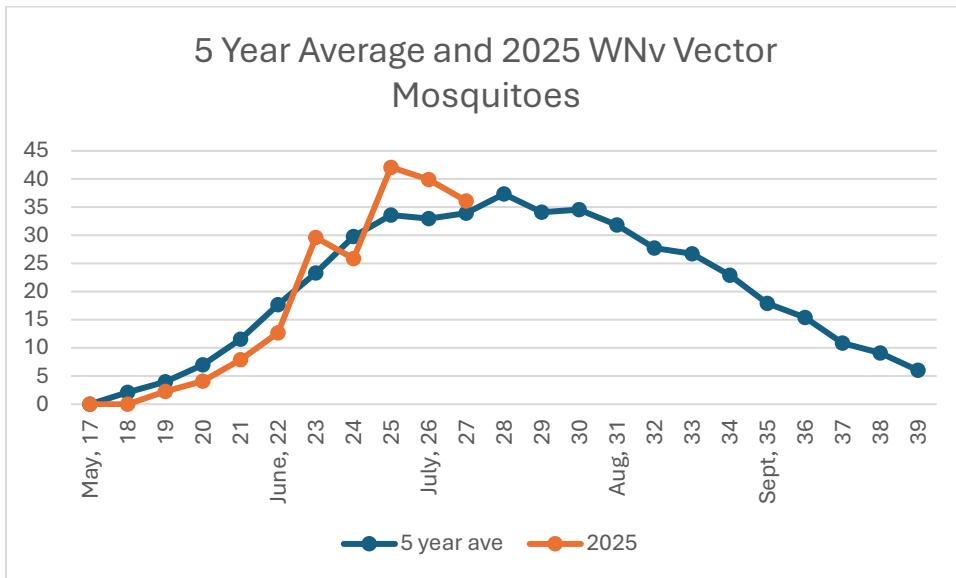
Floodwater/nuisance mosquitoes.

These are the species of mosquitoes which are more likely to take blood meals from humans. These species come out 5-10 days after rainfall. These species populations tend to be higher in the late spring and early summer – historically peaking around the beginning of July. These mosquitoes live for about 2 weeks and tend to prefer shady forest areas.



West Nile virus vector mosquitoes.

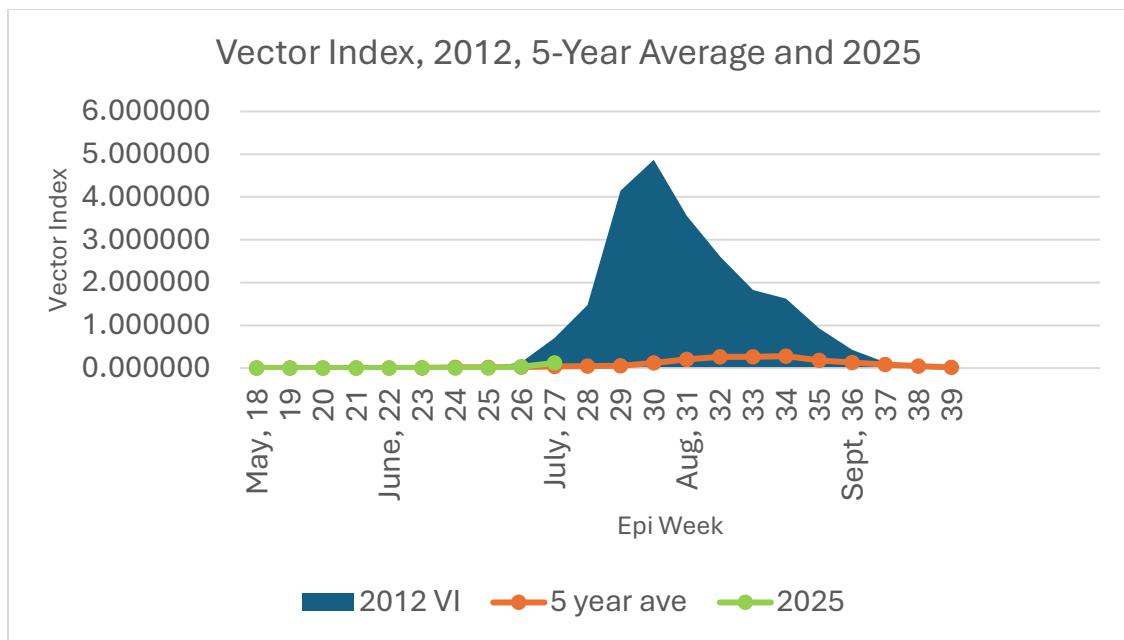
There are two main species of WNv vector mosquitoes, *Culex pipiens* and *Culex restuans*. These species prefer to feed on birds (which are the reservoir hosts for WNv) but will feed on humans opportunistically. In general, we tend to see the population of these mosquitoes increase during drought-like conditions



West Nile virus detection in mosquitoes.

In our lab we test most, if not all, WNv vector mosquitoes for West Nile virus daily. From this data we can calculate the risk of transmission (Vector Index), allow us to monitor the infection rate over time, and better inform our field operations on where to focus our abatement. We tested 79 batches of mosquitoes last week and had 9 WNv positives. The Vector Index for the district is 0.12.

VI Range	Risk
0.0 - 0.2	Very low
0.21 - 0.99	Low
1.0 - 1.99	Moderate
> 2.0	High



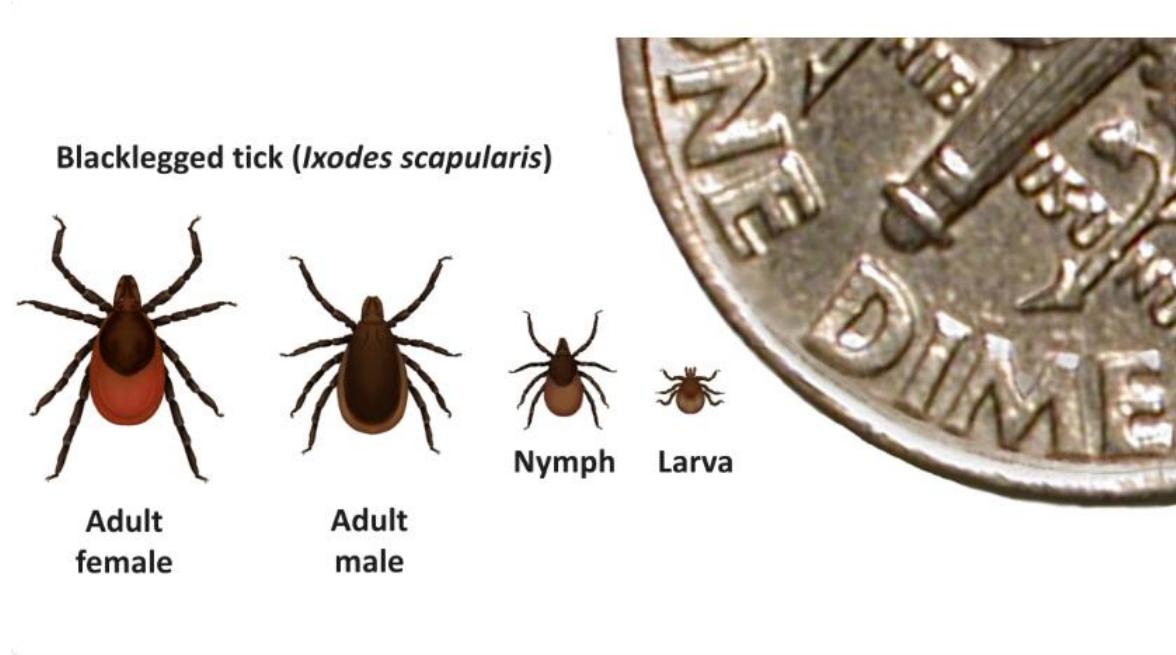
Village	Tested this week	Positive pools this week	Total # pools tested for WNV	Total Positive pools
Arlington Heights	8	1	61	1
Buffalo Grove	3	0	29	1
Barrington	7	0	50	0
Bartlett	2	0	22	0
Des Plaines	2	0	24	0
Elgin	4	0	37	0
Elk Grove	9	3	52	3
Glenview	0	0	27	0
Hoffman Estates	7	1	62	1
Northbrook	12	1	79	2
Palatine	3	0	28	1
Prospect Heights	2	1	18	1
Park Ridge	10	2	81	2
Rolling Meadows	6	0	37	0
Schaumburg	4	0	32	0
Streamwood	0	0	11	0
Total	79	9	650	12

Tick Surveillance

We have sent all our deer ticks to CDC for pathogen testing. It may take a couple of months to get results back, but I will include them in the weekly report as soon as we get the results.

We have conducted 65 separate drags (and found at least 1 tick during 59 of them) since mid-March through last week.

Tick Species (Common Name)	Life Stage	Number
D. variabilis (Dog Tick)	Adult	370
I. scapularis (Deer Tick)	Adult	280
I. scapularis (Deer Tick)	Nymph	99
A. americanum (Lone Star Tick)	Nymph	1



In general, adult ticks are approximately the size of a sesame seed and nymphal ticks are approximately the size of a poppy seed.

From the CDC