NORTHWEST MOSQUITO ABATEMENT DISTRICT

Keeping the community safe

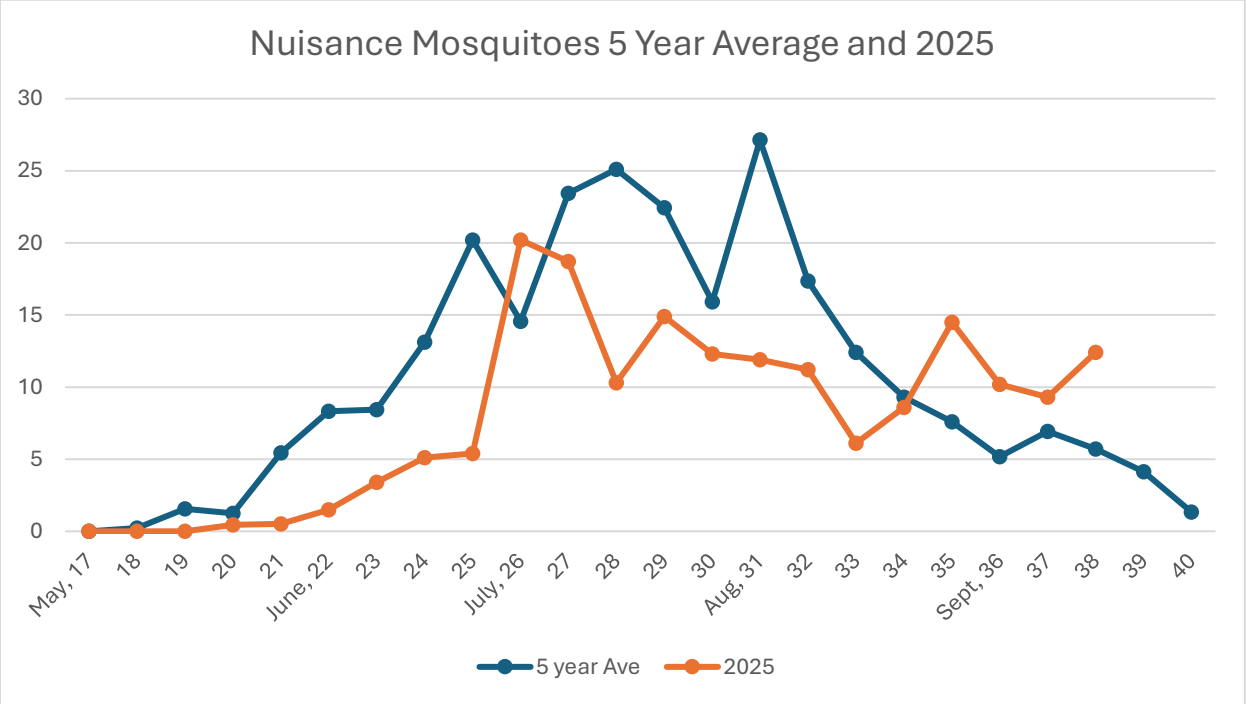
Weekly mosquito report for week 38 (Sept 15 through Sept 21).

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.

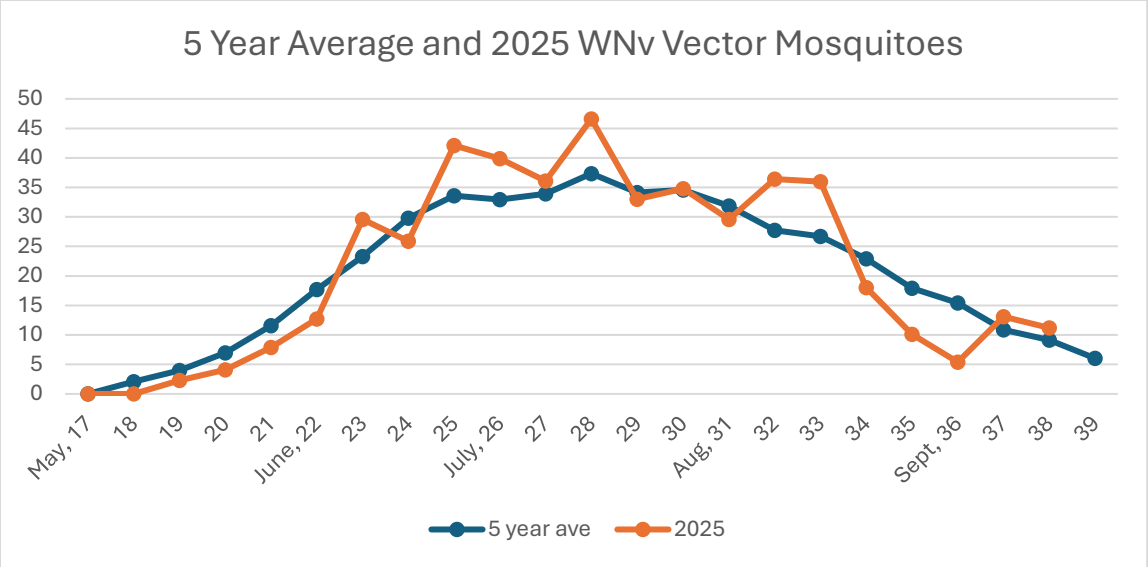
Floodwater/nuisance mosquitoes.

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 58 batches of mosquitoes last week and had 10 WNv positives. The Vector Index for the district is 0.16

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 for week	Total pools tested	Total positive pools season
Arlington Heights	6	0	142	34
Buffalo Grove	4	0	93	32
Barrington	2	0	107	19
Bartlett	0	0	52	7
Des Plaines	4	0	57	4
Elk Grove	6	1	160	43
Elgin	6	0	79	9
Glenview	4	1	62	11
Hoffman Estates	4	0	143	29
Northbrook	7	0	189	40
Palatine	0	0	50	10
Prospect Heights	3	0	50	8
Park Ridge	8	2	207	63
Rolling Meadows	3	1	105	30
Schaumburg	3	1	73	8
Streamwood	0	0	21	2
Total	58	6	1589	349

Tick Surveillance

Fall tick season is beginning. We start to see adult deer ticks in the beginning of October. This is a good time to remind people to take precautions especially when walking in forested areas.

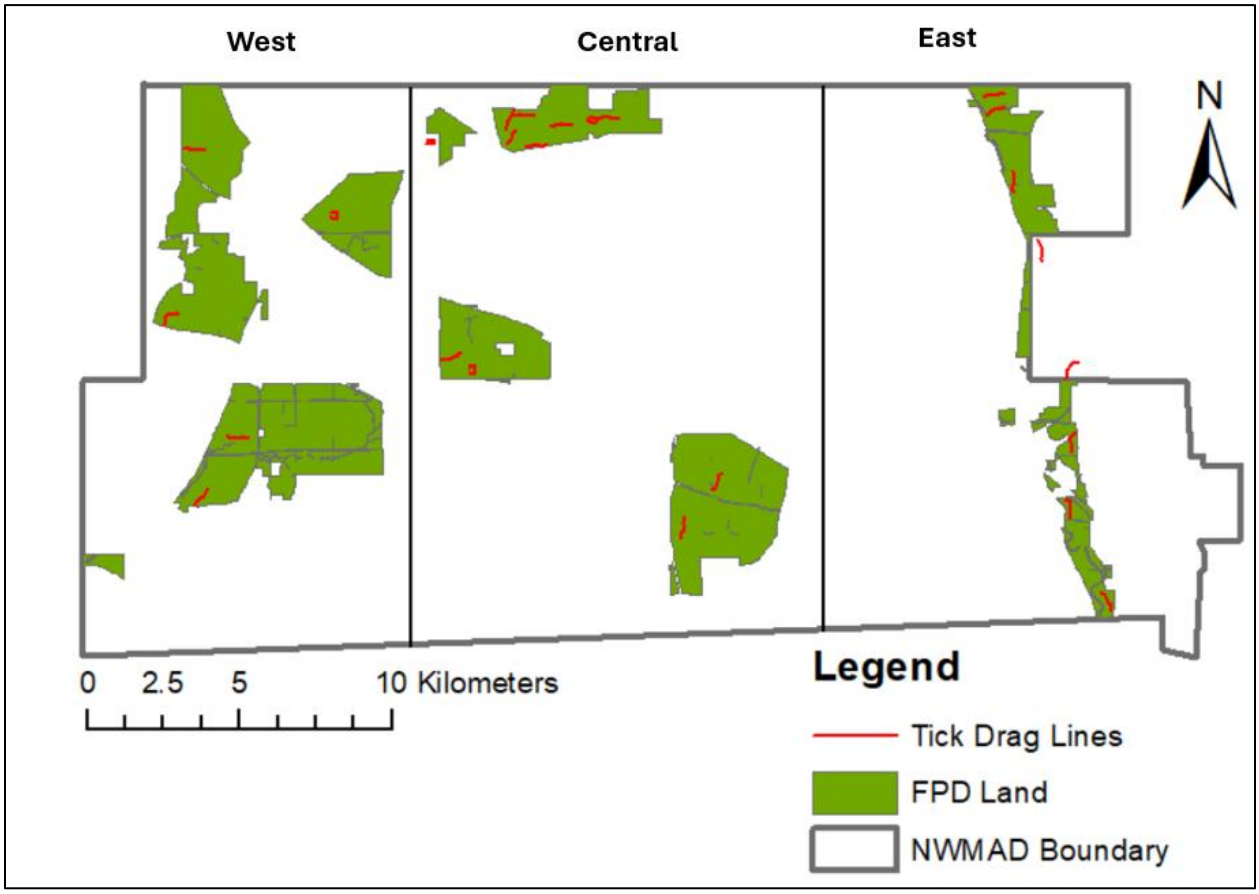
We received pathogen testing results back from CDC for the tick samples we submitted earlier this summer (See next pages).

Tick from spring/early summer 2025

Ixodes scapularis (deer tick)			
Life stage/sex	**# Submitted**	**Lyme disease**	**Other tick-borne pathogens***
Adult female	133	57	8
Adult male	118	54	15
Nymph	97	18	3
total	348	129	26

**Anaplasma phagocytophilum* (humans and nonhuman active), *Borrelia miyamotoi*

Forest Preserve district areas and trails where we conducted tick surveillance in spring and early summer 2025. For ease of analysis, I divided the district into 3 sections, West, Central and East



Pathogen testing results for submitted ticks