

NORTHWEST MOSQUITO ABATEMENT DISTRICT

Keeping the community safe

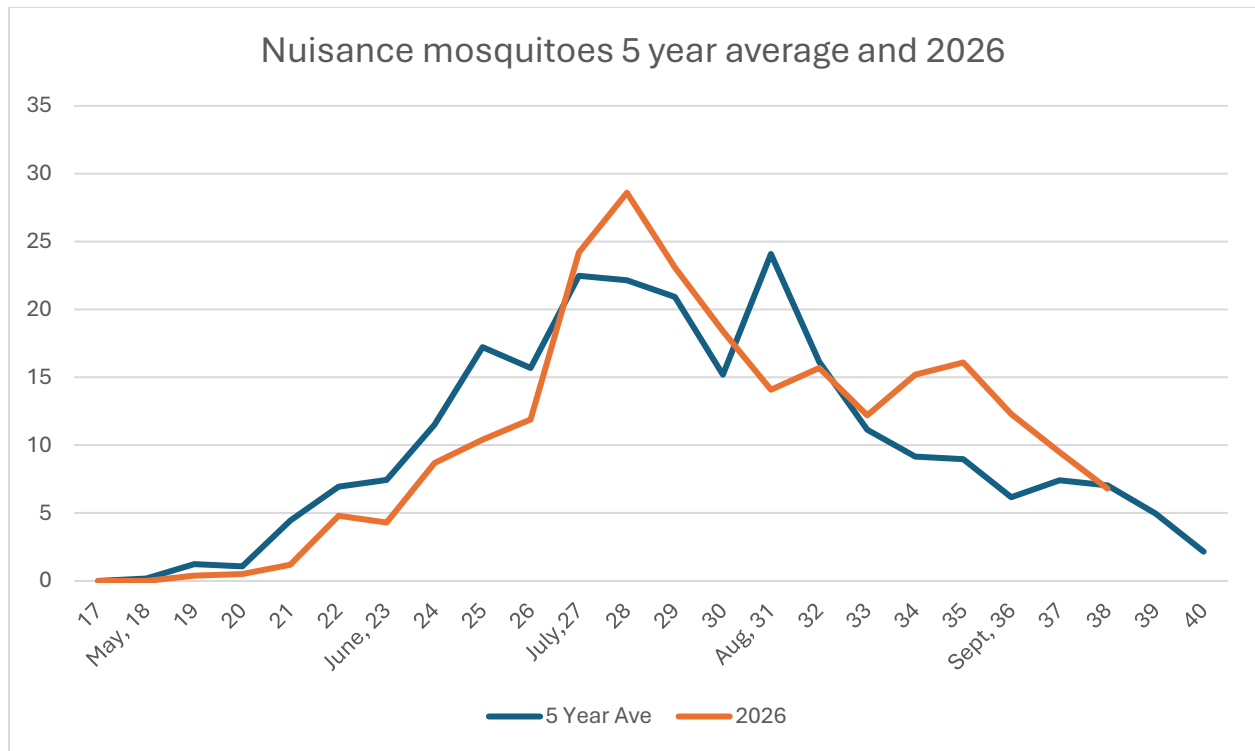
Weekly mosquito report for Sept 15 – Sept 21.

Mosquito Surveillance:

Northwest Mosquito Abatement District operates 36 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 the species level. We test certain mosquito species for the presence of West Nile virus.

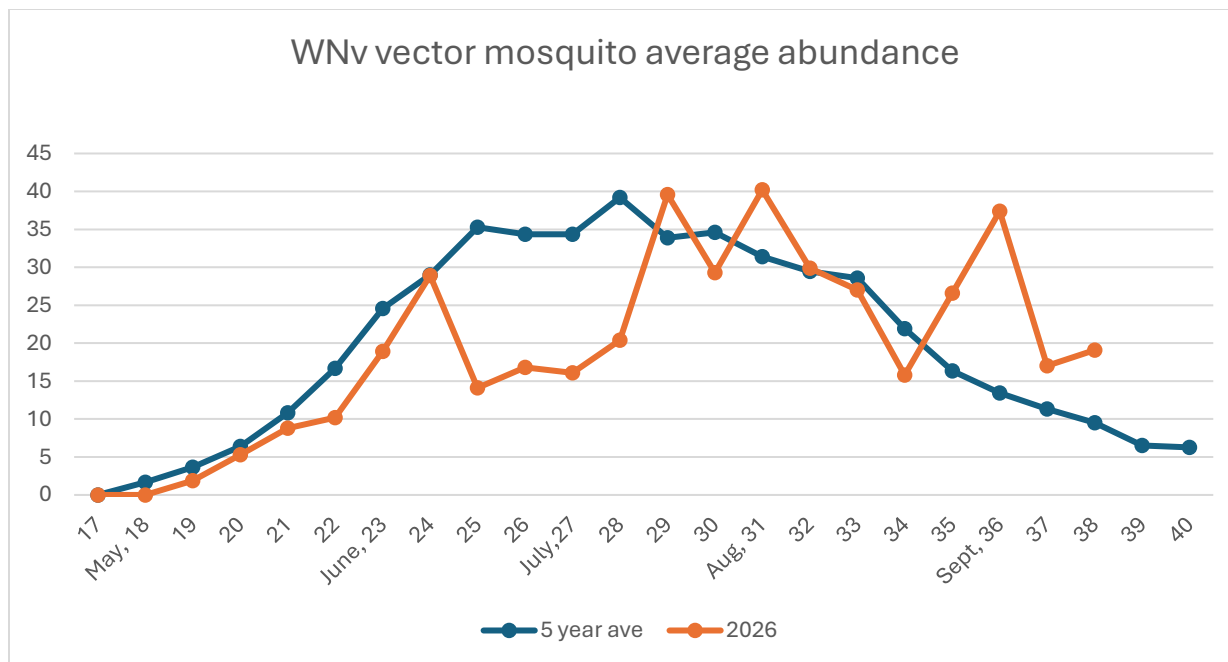
Floodwater/nuisance mosquitoes.

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. We are above average for nuisance mosquitoes in our traps for this time of year.



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.

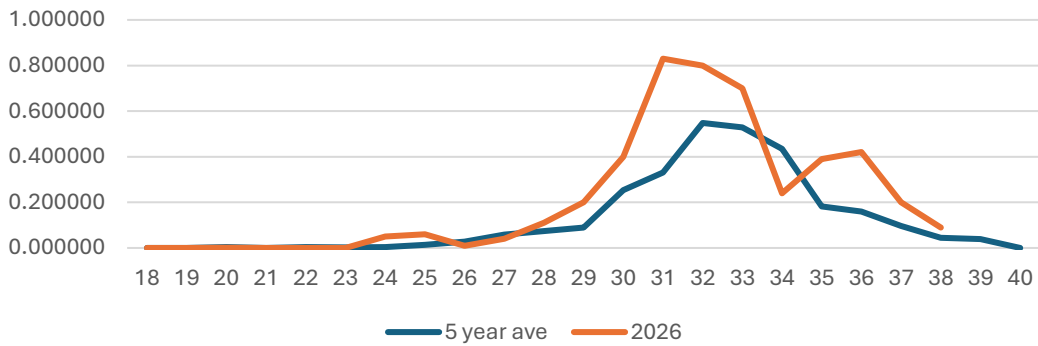


West Nile virus detection in mosquitoes.

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 59 batches of mosquitoes last week and had 17 WNV positive. The Vector Index for the district was 0.20

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

Vector Index 5 year average and 2026



Location Code	Test Last Week	Positives Last Week	Season Tests	Season Positives
Arlington Heights	5	0	102	22
Buffalo Grove	0	0	27	3
Barrington	0	0	23	3
Bartlett	1	0	66	10
Des Plaines	1	1	43	9
Elk Grove	7	0	102	18
Elgin	5	1	47	9
Glenview	4	0	75	20
Hoffman Estates	3	0	69	29
Hanover Park	4	2	69	22
Mount Prospect	13	3	186	57
Northbrook	0	0	40	13
Palatine	6	0	119	45
Prospect Heights	5	1	82	18
Park Ridge	7	2	113	33
Rolling Meadows	0	0	14	1
Schaumburg	0	0	98	23
Streamwood	1	0	41	8
Wheeling	1	0	83	21
Total	63	10	1399	364

***Aedes albopictus* (tiger mosquito)**

We are seeing more invasive *Ae. albopictus* in our traps this season compared to last year at this same time. Please see our website <https://nwmadil.gov/stay-informed/mosquito-information/#new-invasive-species> for more information

Village	Last week	<i>Total</i> 2026
Arlington Heights	1	25
Des Plaines	14	176
Elk Grove	14	107
Glenview	35	582
Hanover Park	0	1
Mount Prospect	31	253
Northbrook	0	36
Park Ridge	15	278
Buffalo Grove	3	4
Rolling Meadows	0	6
Schaumburg	1	18
Streamwood	1	7
Wheeling	1	33
Palatine	2	2
Total	118	1528

Mosquito Abatement Activities

The District has about 100,000 storm water catch basins which are the primary habitat for the aquatic stages of West Nile virus vector mosquitoes. We also have approximately 10,000 above ground aquatic sources where other species of mosquitoes may be found. Above ground sources that permanently hold water generally do not produce mosquitoes.

To date we have treated 97,824 catch basins.

We have inspected 6,834 above ground water sources and treated 1,411

Tick Surveillance

We received the tick pathogen testing results from our spring season.

A total of **191** *Ixodes scapularis* (blacklegged ticks) were tested across 7 pathogen targets, yielding **36 positive detections** (18.8% overall infection rate) with zero coinfections.

Life Stage / Sex	Total Tested	<i>Borrelia burgdorferi</i> s.s.	<i>Borrelia miyamotoi</i>	<i>Anaplasma phagocytophilum</i> (ha)	Total Positives	Infection Rate
Adult Female	93	24	1	1	26	28.0%
Adult Male	80	5	2	1	8	10.0%
Nymph	18	2	0	0	2	11.1%
Total	191	31	3	2	36	18.8%

Pathogen Detections by Sex and Life Stage

(ha) = human-active strain

We also had 2 tick pools that were positive for Powassan virus.