

# Mosquito Abatement District Annual Report 2024

(as required by 70 ILCS 1005/et.seq.)

Complete and return this form by January 31, 2025 to:

Illinois Department of Public Health  
Division of Environmental Health  
ATTN: Vector Control Program  
525 W. Jefferson Street  
Springfield, IL 62761

The report may also be submitted by email to: [dph.vector@illinois.gov](mailto:dph.vector@illinois.gov) Please attach additional pages if necessary.

## I. Mosquito Abatement District (MAD) General Information

|   |   |
|---|---|
| Name of Mosquito Abatement District:                                    |   |
| Contact Person / Position or Title:                                     | Telephone:                              |
| MAD Address (Street, City Zip):   |   |
| Email:  | Legal size of district in square miles: |
| What was the district's annual budget?*                                 |   |
| Estimated population of MAD:  |   |
| District boundaries or names of townships in the MAD (or attach a map): |   |

\* *Public agencies (such as mosquito abatement districts) should be able to supply this information, which should be available to citizens and other government agencies. If "NA" is listed, please explain why this information is not available to other government agencies or the public.*

## II. Public Information and Education

List any seminars, lectures, media interviews, and/or press releases conducted by the MAD in 2024. Please describe the subject matter discussed, quantity, and time frame of each occurrence.

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| <br><br><br><br><br><br><br><br><br><br> |
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**III. Mosquito and Vector Surveillance and Testing**

A. If the MAD conducts mosquito surveillance, please list the mosquito trap type, number of traps used during the mosquito season, and frequency of operation.

B. If the MAD conducts mosquito surveillance, please list what type of mosquito pool testing method is used and which diseases mosquito pools are tested.

C. List the local health department(s) to which the MAD reports mosquito testing data. Provide contact information for the local health department contact at each location.

D. If the MAD conducted active tick surveillance, please list the number of events and type of active tick surveillance activity.

E. If the MAD tested ticks collected from active tick surveillance for pathogens, where were the ticks tested and was the data reported to IDPH? Please provide date the data was sent to IDPH.

F. List any other vectors for which surveillance was conducted not previously mentioned in the report.

**IV. Source-Reduction Activities**

List all source-reduction activities conducted by the MAD in 2024. Please describe the type of activities conducted, including tire cleanup projects, and the number of activities conducted.

**V. Biological Control Agents and Non-Mosquito Pests**

A. If the MAD uses biological control agents, please list the species, number, and sites in which fish or other agents are used.

B. If the MAD controls non-mosquito vectors or pests, please state which non-mosquito vectors or pests are controlled and the method of control used.

## VI. Insecticide Use

Please provide the following information.

A. Insecticides used by the MAD for mosquito larvicide and adulticide activities.

|  |
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|  |
|--|

B. Number of applications

a. Larvicide

i. Permanent water applications - including  
ditches and floodwater

ii. Floodwater applications

iii. Catch basins

b. Adulticide

i. Total number of acres or linear road  
miles

|  |
|--|
|  |
|  |
|  |

Acres

Linear Miles

year

ii. ULV calibration procedure frequency

**VII. Insecticide Resistance**

List any insecticide resistance monitoring the MAD has conducted in 2024. Please provide a summary of results, including insecticides tested, mosquito species used, and procedure followed.

**VIII. Equipment**

A. List the number of vehicles MAD uses for mosquito surveillance and control activities

B. List the number of vehicle-mounted spray units

**IX. Personnel**

A. List the number of full time personnel

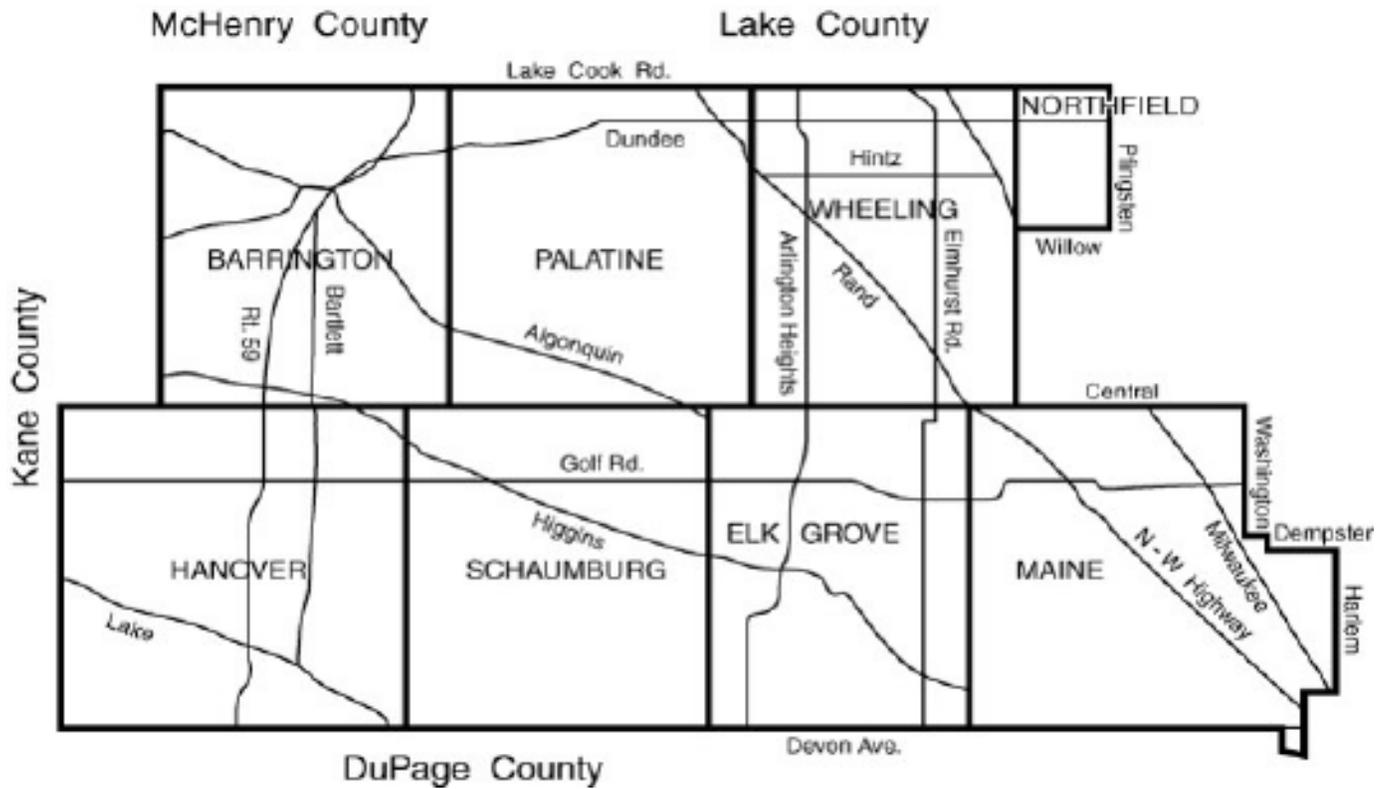
B. List the number of part time personnel

C. If a contractor is used, please provide contact name, phone number, and email address.

**X. Comments**

Please provide any additional information not covered in this form or any problems you experienced.

Additional information for IDPH MAD 2024 report



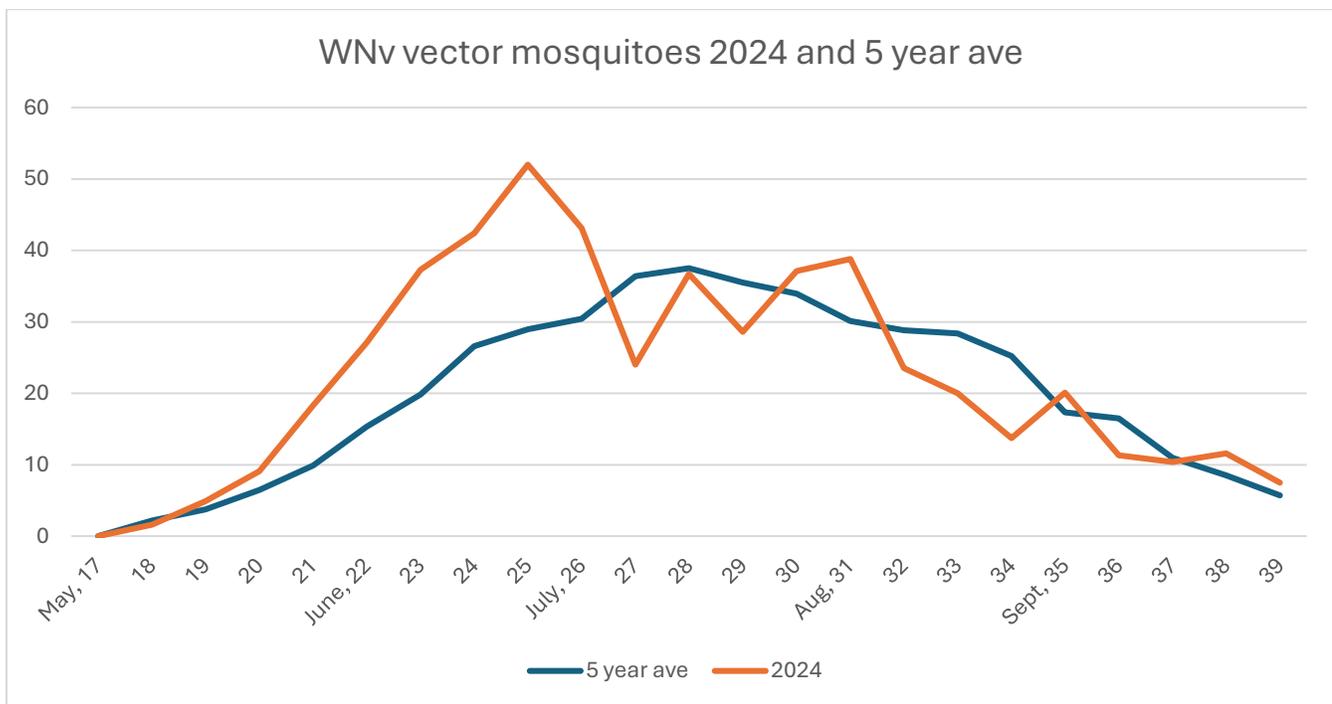
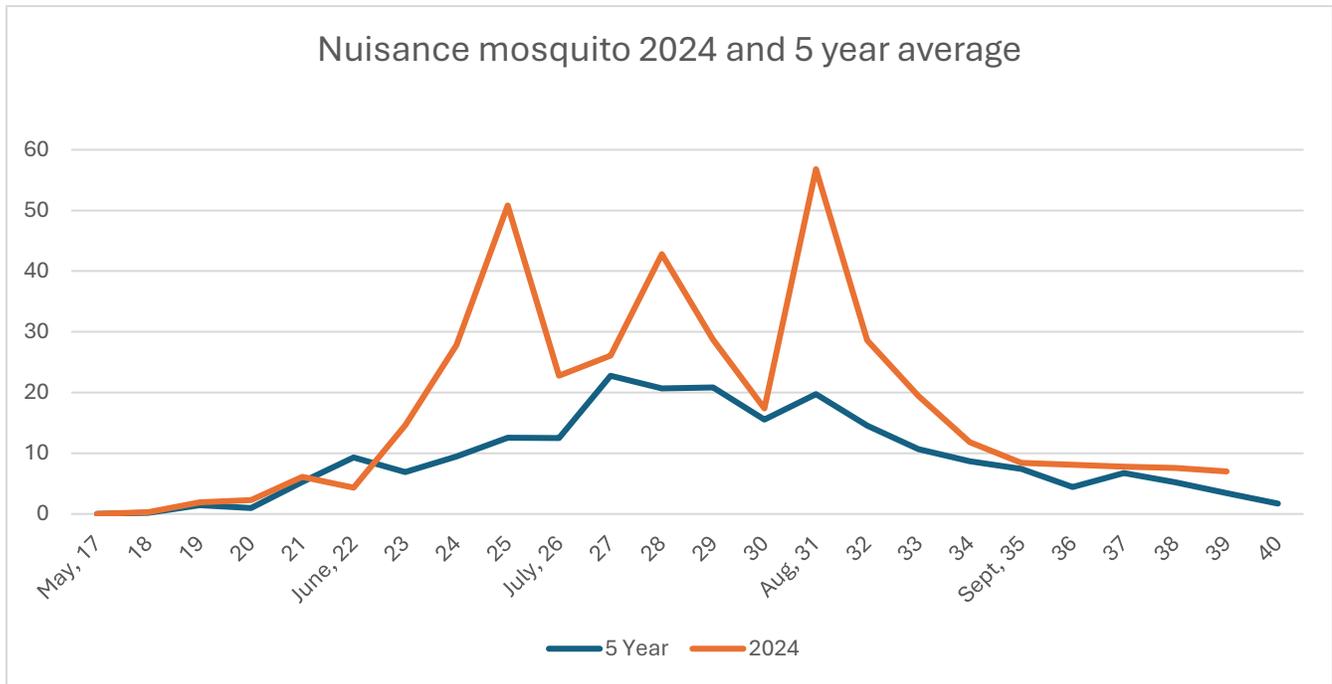
Product Usage for 2024

| Product          | USEPA Registration # | Amount   | Units | Application Method        |
|------------------|----------------------|----------|-------|---------------------------|
| Altosid Pellets  | 2724-448             | 1272.563 | lb    | Hand or backpack sprayer  |
| Altosid Briquets | 2724-375             | 52709    | briq  | Hand                      |
| Zenivex Mixed    | 2724-807             | 33.5     | gal   | Truck mounted ULV sprayer |
| Re Moa Tri       | 73049-526            | 27       | gal   | Truck mounted ULV sprayer |

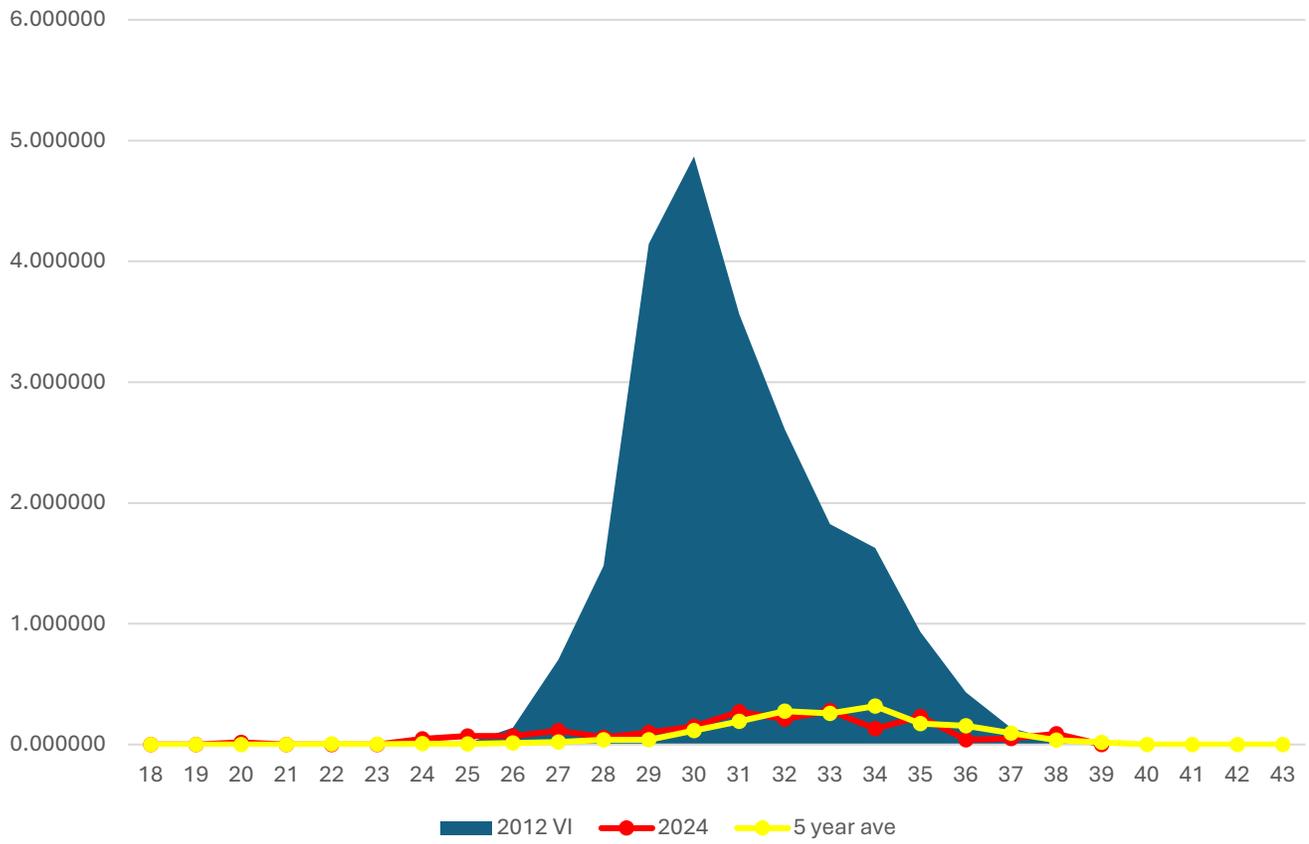
5-year species comparison table

|                           |                    | 2020  |         | 2021   |         | 2022  |         | 2023  |         | 2024  |         |
|---------------------------|--------------------|-------|---------|--------|---------|-------|---------|-------|---------|-------|---------|
| Aedes/Ochlerotatus        |                    | Count | %       | Count  | %       | Count | %       | Count | %       | Count | %       |
|                           | albopictus (GT tr) | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 13    | 0.13%   | 47    | 0.21%   |
|                           | canadensis         | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
|                           | cinereus           | 5     | 0.02%   | 6      | 0.03%   | 42    | 0.17%   | 54    | 0.53%   | 11    | 0.05%   |
|                           | dorsalis           | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 1     | 0.00%   |
|                           | excrucians         | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
|                           | fitchii            | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
|                           | flavescens         | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
|                           | grossbecki         | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
|                           | japonicus*         | 130   | 0.40%   | 2      | 0.01%   | 20    | 0.08%   | 20    | 0.20%   | 66    | 0.29%   |
|                           | sollicitans        | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 4     | 0.02%   |
|                           | sticticus          | 0     | 0.00%   | 3      | 0.01%   | 5     | 0.02%   | 3     | 0.03%   | 2     | 0.01%   |
|                           | stimulans          | 1     | 0.00%   | 3      | 0.01%   | 5     | 0.02%   | 2     | 0.02%   | 7     | 0.03%   |
|                           | triseriatus        | 3     | 0.01%   | 23     | 0.11%   | 12    | 0.05%   | 192   | 1.89%   | 49    | 0.21%   |
|                           | trivittatus        | 195   | 0.59%   | 1740   | 8.60%   | 535   | 2.14%   | 327   | 3.23%   | 837   | 3.66%   |
|                           | versans            | 3876  | 11.79%  | 13906  | 68.73%  | 17450 | 69.89%  | 4179  | 41.18%  | 16183 | 70.70%  |
|                           | undetermined       | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
| <b>Anopheles</b>          |                    |       |         |        |         |       |         |       |         |       |         |
|                           | punctipennis       | 28    | 0.09%   | 144    | 0.71%   | 542   | 2.17%   | 237   | 2.34%   | 643   | 2.81%   |
|                           | quadrimaculatus    | 157   | 0.48%   | 217    | 1.07%   | 540   | 2.16%   | 594   | 5.85%   | 841   | 3.67%   |
|                           | walkeri            | 0     | 0.00%   | 1      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 2     | 0.01%   |
|                           | crucians           | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 1     | 0.00%   |
| <b>Coquillettidia</b>     |                    |       |         |        |         |       |         |       |         |       |         |
|                           | perturbans         | 714   | 2.17%   | 13     | 0.06%   | 489   | 1.96%   | 572   | 5.64%   | 1194  | 5.22%   |
| <b>Culex NJ Trap only</b> |                    |       |         |        |         |       |         |       |         |       |         |
|                           | erraticus          | 3     | 0.01%   | 6      | 0.03%   | 214   | 0.86%   | 18    | 0.18%   | 581   | 2.54%   |
|                           | pipiens            | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
|                           | pipiens/restuans   | 27704 | 84.26%  | 2116   | 10.46%  | 2976  | 11.92%  | 3859  | 38.03%  | 2078  | 9.08%   |
|                           | restuans           | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
|                           | salinarius         | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
|                           | tarsalis           | 3     | 0.01%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 2     | 0.01%   |
|                           | territans          | 2     | 0.01%   | 3      | 0.01%   | 12    | 0.05%   | 1     | 0.01%   | 18    | 0.08%   |
|                           | undetermined       | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
| <b>Culiseta</b>           |                    |       |         |        |         |       |         |       |         |       |         |
|                           | impatiens          | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
|                           | inornata           | 14    | 0.04%   | 5      | 0.02%   | 4     | 0.02%   | 4     | 0.04%   | 17    | 0.07%   |
|                           | melanura           | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
|                           | minnesotae         | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
|                           | morsitans          | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
|                           | undetermined       | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
| <b>Orthopodomyia</b>      |                    |       |         |        |         |       |         |       |         |       |         |
|                           | signifera          | 2     | 0.01%   | 0      | 0.00%   | 0     | 0.00%   | 1     | 0.01%   | 2     | 0.01%   |
| <b>Psorophora</b>         |                    |       |         |        |         |       |         |       |         |       |         |
|                           | ciliata            | 0     | 0.00%   | 13     | 0.06%   | 0     | 0.00%   | 15    | 0.15%   | 72    | 0.31%   |
|                           | columbinae         | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
|                           | ferox              | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 5     | 0.02%   |
|                           | horrida            | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 17    | 0.07%   |
|                           | howardii           | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
|                           | undetermined       | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
| <b>Uranotaenia</b>        |                    |       |         |        |         |       |         |       |         |       |         |
|                           | sapphirina         | 41    | 0.12%   | 10     | 0.05%   | 101   | 0.40%   | 56    | 0.55%   | 210   | 0.92%   |
| <b>Undetermined</b>       |                    |       |         |        |         |       |         |       |         |       |         |
|                           | spp.               | 0     | 0.00%   | 0      | 0.00%   | 0     | 0.00%   | 0     | 0.00%   | 0     | 0.00%   |
| <b>Totals</b>             |                    | 32878 | 100.00% | 20,232 | 100.00% | 24969 | 100.00% | 10147 | 100.00% | 22890 | 100.00% |

# Graphs



Vector Index for 2024, 5 year average, and 2012 (outbreak year)



Tick surveillance

| Location                                   | Date       | Meters | Tick species  | Life stage | #          | Got away | Time      | Ecology             |
|--|------------|--------|---------------|------------|------------|----------|-----------|---------------------|
| Deer Grove East FPD                        | 9/30/2024  | 200    | none          | none       | 0          | 0        | 1-2 pm    | Forest/prairie edge |
| Deer Grove East FPD                        | 10/3/2024  | 500    | none          | none       | 0          | 0        | 1-2 pm    | Forest/prairie edge |
| Hansen FPD                                 | 10/7/2024  | 1500   | I. scapularis | Adult      | 10         | 3        | 9-11 am   | forest              |
| Potowatomi Woods FPD                       | 10/8/2024  | 1500   | I. scapularis | adult      | 30         | 0        | 9-11 am   | forest              |
| Busse Woods FPD North                      | 10/9/2024  | 1500   | I. scapularis | adult      | 15         | 0        | 9-11 am   | forest              |
| Deer Grove East FPD                        | 10/9/2024  | 1500   | I. scapularis | adult      | 4          | 3        | 9-11 am   | forest              |
| Camp Reinberg loop                         | 10/10/2024 | 1500   | I. scapularis | adult      | 7          | 0        | 9-11 am   | Forest/prairie edge |
| Camp Alphonse                              | 10/10/2024 | 1500   | I. scapularis | adult      | 6          | 0        | 9-11 am   | forest              |
| Potowatomi Woods FPD                       | 10/10/2024 | 1500   | I. scapularis | adult      | 12         | 0        | 1-2 pm    | forest              |
| Dam Woods 1                                | 10/11/2024 | 1500   | I. scapularis | adults     | 14         | 0        | 9-11 am   | forest              |
| Paul Douglas                               | 10/14/2024 | 1500   | I. scapularis | adults     | 3          | 0        | 9-11 am   | forest              |
| Deer Grove West South                      | 10/15/2024 | 1500   | I. scapularis | adults     | 2          | 0        | 9-11 am   | forest              |
| Camp Reinberg loop                         | 10/17/2024 | 1500   | I. scapularis | adults     | 2          | 0        | 9-11 am   | Forest/prairie edge |
| Camp Reinberg east trail                   | 10/17/2024 | 1500   | I. scapularis | adults     | 10         | 3        | 9-11 am   | Forest/prairie edge |
| deer grove west parallel to hillside       | 10/18/2024 | 1500   | none          | none       | 0          | 0        | 9-11 am   | forest              |
| Potowatomi Woods FPD                       | 10/18/2024 | 1500   | I. scapularis | adult      | 26         | 0        | 1-2 pm    | forest              |
| barrington park district equestrian center | 10/21/2024 | 1500   | I. scapularis | adult      | 85         | 4        | 9-11 am   | forest              |
| Ron Breese park/ Baker lake                | 10/21/2024 | 1500   | none          | none       | 0          | 0        | 1-2 pm    | Forest/prairie edge |
| Camp Dan Beard                             | 10/23/2004 | 1500   | I. scapularis | adult      | 38         | 0        | 9-11 am   | forest              |
| Crabtree main loop                         | 10/23/2004 | 1500   | I. scapularis | adult      | 0          | 0        | 1-2 pm    | Forest/prairie edge |
| paul douglas off Freeman Rd                | 10/24/2024 | 750    | I. scapularis | adult      | 6          | 0        | 1-2 pm    | Forest              |
| Busse Woods FPD South                      | 11/1/2024  | 1500   | I. scapularis | adult      | 4          | 0        | 9-11am    | forest              |
| Big Bend FPD South                         | 11/13/2024 | 750    | I. scapularis | adult      | 11         | 0        | 9-10 am   | forest              |
| Big Bend FPD North                         | 11/13/2024 | 750    | I. scapularis | adult      | 25         | 0        | 10-11 am  | forest              |
| Beck Lake                                  | 11/13/2024 | 1500   | I. scapularis | adult      | 1          | 0        | 11-12 pm  | forest              |
| Dam #4 woods FPD                           | 11/18/2024 | 1500   | I. scapularis | adult      | 4          | 0        | 8:30-9:30 | Forest              |
| Camp Ground Road Woods FPD                 | 11/18/2024 | 750    | none          | none       | 0          | 0        | 9-10am    | Forest              |
| Beverly Lake FPD                           | 11/20/204  | 1500   | I. scapularis | adult      | 4          | 1        | 9-10 am   | forest              |
| <b>Total</b>                               |            | 36700  |               |            | <b>319</b> |          |           |                     |

Ticks will be sent to CDC for pathogen testing after the first of the year