

2024 Vermont Mosquito Surveillance Report

Vermont Agency of Agriculture, Food & Markets

The Vermont Agency of Agriculture, Food & Markets conducted its 2024 annual surveillance of mosquitoes from June 10 (targeted to higher-risk areas) and commencing statewide June 24 through October 18 at higher-risk areas, with statewide surveillance ending October 11 (19 weeks, 16 statewide), tracking West Nile Virus (WNV) and Eastern Equine Encephalitis (EEE) presence in the state. Mosquitoes were collected from 104 permanent trap locations in 87 towns within all of Vermont's 14 counties.

Three types of traps were used: resting box traps (RBTs), reduced CDC light traps (CDCs), and gravid traps (GVTs). RBTs target the main mosquito vector (transmitter) of EEE. CDC traps are co-located with RBTs at wetland locations and are used to assess mosquito species and abundance in an area. GVTs are set at wastewater treatment facilities, targeting the main vector of WNV. Collections were made weekly and processed at the Vermont Agricultural and Environmental Laboratory (VAEL) in Randolph Center. The specimens were identified to species and known or suspected primary and secondary vector species were pooled into vials of 1 to 50 mosquitoes. The mosquito pool samples were processed at the Vermont Department of Health Laboratory in Colchester VT and the Centers for Disease Control and Prevention Laboratory in Fort Collins CO for arbovirus testing.

In addition to routine WNV and EEE surveillance, surveillance for the Asian Tiger Mosquito (*Aedes albopictus*), the mosquito species known to vector dengue, chikungunya, and yellow fever and suspected to be a weak vector species for Zika virus in areas of endemic presence, was conducted at 18 sites throughout southern Vermont. A total of 13 oviposition trap locations and 5 BG-GAT locations were surveyed for 10 weeks.

2024 At-A-Glance Vermont Mosquito Arbovirus Data

- 127,833 mosquitoes collected
- 4,490 mosquito pools submitted for testing*
- 64 mosquito pools were positive for WNV
- 86 mosquito pools were positive for EEE

Vermont Agency of Agriculture's Mosquito Surveillance Results and Trap Locations (RBT, CDC, and GVT Traps), 2024

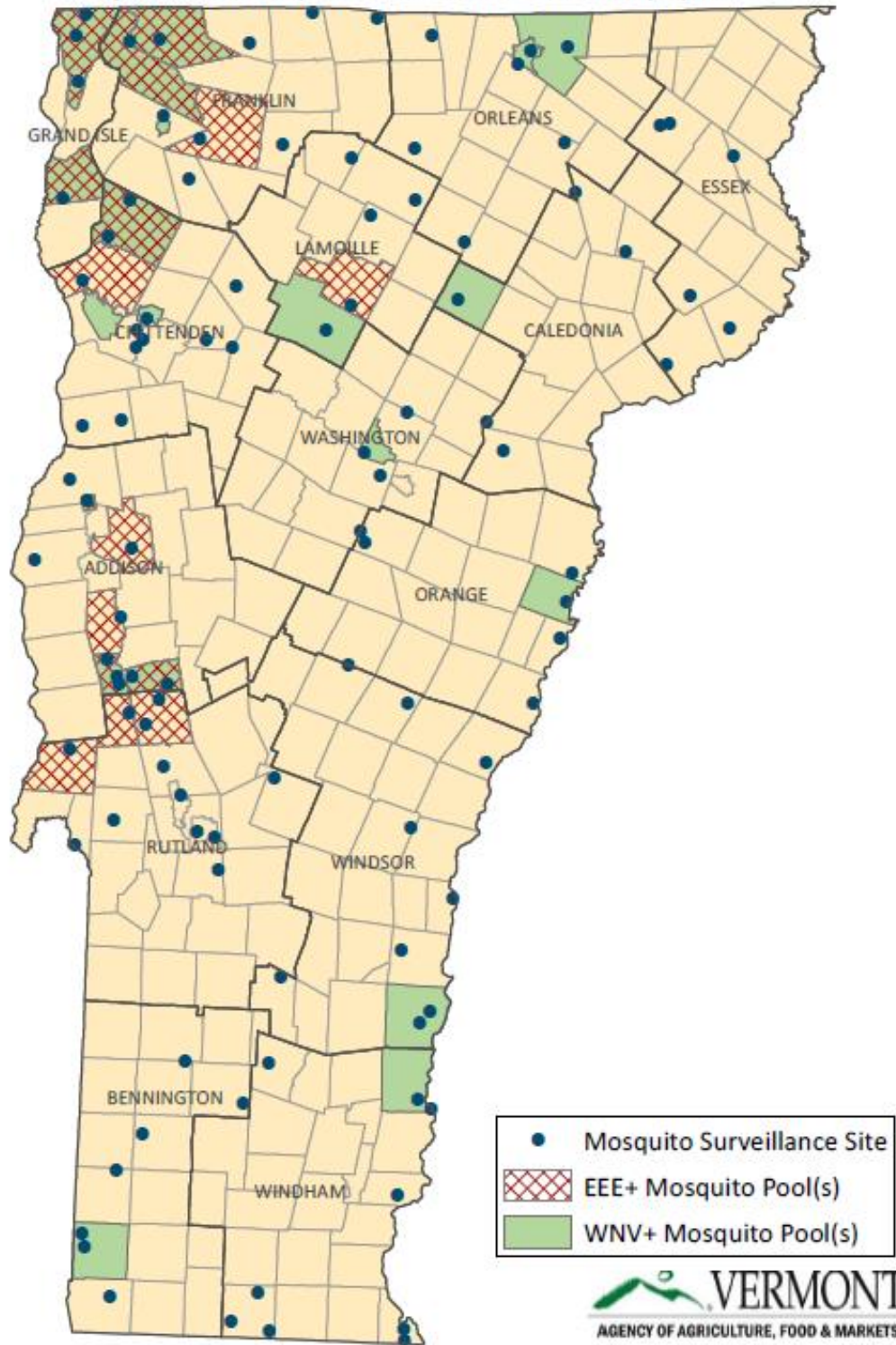


Table 1. 2024 Vermont Arbovirus Testing Results (Vermont Agency of Agriculture, Food & Markets)

| CDC Week # | Beginning Sunday | # Pools Tested | # EEE+ Pools | # WNV+ Pool |
|-------------------|-------------------------|-----------------------|---------------------|--------------------|
| 24 | 9-Jun | 26 | 0 | 0 |
| 25 | 16-Jun | 23 | 0 | 0 |
| 26 | 23-Jun | 172 | 0 | 0 |
| 27 | 30-Jun | 172 | 0 | 0 |
| 28 | 7-Jul | 172 | 0 | 1 |
| 29 | 14-Jul | 172 | 0 | 2 |
| 30 | 21-Jul | 172 | 3 | 3 |
| 31 | 28-Jul | 318 | 7 | 13 |
| 32 | 4-Aug | 277 | 11 | 10 |
| 33 | 11-Aug | 344 | 26 | 9 |
| 34 | 18-Aug | 354 | 19 | 5 |
| 35 | 25-Aug | 505 | 9 | 10 |
| 36 | 1-Sep | 484 | 3 | 3 |
| 37 | 8-Sep | 344 | 0 | 0 |
| 38 | 15-Sep | 328 | 4 | 7 |
| 39 | 22-Sep | 261 | 2 | 0 |
| 40 | 29-Sep | 190* | 1 | 1 |
| 41 | 6-Oct | 143 | 1 | 0 |
| 42 | 13-Oct | 33 | 0 | 0 |
| Total | | 4,490 | 86 | 64 |

*48 pools unable to be tested due to an error in the extraction process at testing laboratory

Table 2. 2024 Vermont WNV and EEE-Positive Pools (Vermont Agency of Agriculture, Food & Markets)

| Date Collected | Town | County | Species | Virus Result |
|-----------------------|-----------------|---------------|---------------------------------|---------------------|
| 7/8/2024 | Alburgh | Grand Isle | <i>Culex pipiens/restuans</i> | WNV |
| 7/16/2024 | Hardwick | Caledonia | <i>Culex pipiens/restuans</i> | WNV |
| 7/16/2024 | Vergennes | Addison | <i>Culex pipiens/restuans</i> | WNV |
| 7/22/2024 | Alburgh | Grand Isle | <i>Anopheles punctipennis</i> | EEE |
| 7/22/2024 | Alburgh | Grand Isle | <i>Culiseta melanura</i> | EEE |
| 7/22/2024 | Alburgh | Grand Isle | <i>Culex pipiens/restuans</i> | WNV |
| 7/22/2024 | St. Albans City | Franklin | <i>Culex pipiens/restuans</i> | WNV |
| 7/22/2024 | Swanton | Franklin | <i>Culiseta melanura</i> | EEE |
| 7/24/2024 | Vergennes | Addison | <i>Culex pipiens/restuans</i> | WNV |
| 7/29/2024 | Alburgh | Grand Isle | <i>Coquilletidia perturbans</i> | EEE |
| 7/29/2024 | Alburgh | Grand Isle | <i>Culiseta melanura</i> | EEE |
| 7/29/2024 | Alburgh | Grand Isle | <i>Culex pipiens/restuans</i> | WNV |
| 7/29/2024 | Alburgh | Grand Isle | <i>Culex pipiens/restuans</i> | WNV |
| 7/29/2024 | Alburgh | Grand Isle | <i>Culex pipiens/restuans</i> | WNV |
| 7/29/2024 | Essex Junction | Chittenden | <i>Culex pipiens/restuans</i> | WNV |
| 7/29/2024 | Essex Junction | Chittenden | <i>Culex pipiens/restuans</i> | WNV |
| 7/29/2024 | Essex Junction | Chittenden | <i>Culex pipiens/restuans</i> | WNV |
| 7/29/2024 | St. Albans City | Franklin | <i>Culex pipiens/restuans</i> | WNV |
| 7/29/2024 | St. Albans City | Franklin | <i>Culex pipiens/restuans</i> | WNV |
| 7/29/2024 | Whiting | Addison | <i>Culex pipiens/restuans</i> | WNV |
| 7/30/2024 | Alburgh | Grand Isle | <i>Culiseta melanura</i> | EEE |
| 7/30/2024 | Colchester | Chittenden | <i>Culiseta melanura</i> | EEE |
| 7/30/2024 | Colchester | Chittenden | <i>Culiseta melanura</i> | EEE |
| 7/30/2024 | Colchester | Chittenden | <i>Culiseta melanura</i> | EEE |
| 7/30/2024 | Colchester | Chittenden | <i>Culex territans</i> | EEE |
| 7/30/2024 | Hardwick | Caledonia | <i>Culex pipiens/restuans</i> | WNV |
| 7/31/2024 | Newport City | Orleans | <i>Culex pipiens/restuans</i> | WNV |
| 7/31/2024 | Newport City | Orleans | <i>Culex pipiens/restuans</i> | WNV |
| 8/1/2024 | Bradford | Orange | <i>Culex pipiens/restuans</i> | WNV |
| 8/5/2024 | Alburgh | Grand Isle | <i>Culiseta melanura</i> | EEE & WNV |
| 8/5/2024 | Alburgh | Grand Isle | <i>Culiseta melanura</i> | EEE |
| 8/5/2024 | Alburgh | Grand Isle | <i>Culex pipiens/restuans</i> | WNV |
| 8/5/2024 | Colchester | Chittenden | <i>Coquilletidia perturbans</i> | EEE |
| 8/5/2024 | Essex Junction | Chittenden | <i>Culex pipiens/restuans</i> | WNV |
| 8/5/2024 | Highgate | Franklin | <i>Culiseta melanura</i> | EEE |
| 8/5/2024 | Milton | Chittenden | <i>Culex territans</i> | EEE |
| 8/5/2024 | St. Albans City | Franklin | <i>Culex pipiens/restuans</i> | WNV |
| 8/5/2024 | St. Albans City | Franklin | <i>Culex pipiens/restuans</i> | WNV |

| Date Collected | Town | County | Species | Virus Result |
|----------------|----------------|------------|----------------------------------|--------------|
| 8/5/2024 | Swanton | Franklin | <i>Culiseta melanura</i> | EEE |
| 8/6/2024 | Alburgh | Grand Isle | <i>Culiseta melanura</i> | EEE & WNV |
| 8/6/2024 | Colchester | Chittenden | <i>Culiseta melanura</i> | EEE |
| 8/6/2024 | Cornwall | Addison | <i>Culiseta melanura</i> | EEE |
| 8/6/2024 | Grand Isle | Grand Isle | <i>Culiseta melanura</i> | WNV |
| 8/6/2024 | Grand Isle | Grand Isle | <i>Culiseta melanura</i> | WNV |
| 8/6/2024 | Highgate | Franklin | <i>Culiseta melanura</i> | WNV |
| 8/6/2024 | Sudbury | Rutland | <i>Anopheles punctipennis</i> | EEE |
| 8/6/2024 | Whiting | Addison | <i>Culiseta melanura</i> | EEE |
| 8/7/2024 | Vergennes | Addison | <i>Culex pipiens/restuans</i> | WNV |
| 8/12/2024 | Alburgh | Grand Isle | <i>Coquilletidia perturbans</i> | EEE |
| 8/12/2024 | Alburgh | Grand Isle | <i>Coquilletidia perturbans</i> | EEE |
| 8/12/2024 | Alburgh | Grand Isle | <i>Coquilletidia perturbans</i> | EEE |
| 8/12/2024 | Alburgh | Grand Isle | <i>Culiseta melanura</i> | EEE |
| 8/12/2024 | Alburgh | Grand Isle | <i>Ochlerotatus canadensis</i> | EEE |
| 8/12/2024 | Colchester | Chittenden | <i>Coquilletidia perturbans</i> | EEE |
| 8/12/2024 | Essex Junction | Chittenden | <i>Culex pipiens/restuans</i> | WNV |
| 8/12/2024 | Fairfield | Franklin | <i>Culiseta melanura</i> | EEE |
| 8/12/2024 | Grand Isle | Grand Isle | <i>Coquilletidia perturbans</i> | WNV |
| 8/12/2024 | Grand Isle | Grand Isle | <i>Culiseta melanura</i> | EEE & WNV |
| 8/12/2024 | Grand Isle | Grand Isle | <i>Culex pipiens/restuans</i> | EEE & WNV |
| 8/12/2024 | Grand Isle | Grand Isle | <i>Culex territans</i> | EEE |
| 8/12/2024 | Milton | Chittenden | <i>Anopheles quadrimaculatus</i> | EEE |
| 8/12/2024 | Swanton | Franklin | <i>Aedes cinereus</i> | EEE |
| 8/12/2024 | Swanton | Franklin | <i>Anopheles quadrimaculatus</i> | EEE |
| 8/12/2024 | Swanton | Franklin | <i>Coquilletidia perturbans</i> | EEE |
| 8/12/2024 | Swanton | Franklin | <i>Culiseta melanura</i> | EEE |
| 8/12/2024 | Swanton | Franklin | <i>Culiseta melanura</i> | EEE |
| 8/12/2024 | Swanton | Franklin | <i>Culex territans</i> | EEE |
| 8/12/2024 | Swanton | Franklin | <i>Ochlerotatus canadensis</i> | EEE |
| 8/12/2024 | Swanton | Franklin | <i>Ochlerotatus trivittatus</i> | EEE |
| 8/13/2024 | Alburgh | Grand Isle | <i>Culiseta melanura</i> | EEE & WNV |
| 8/13/2024 | Alburgh | Grand Isle | <i>Culex pipiens/restuans</i> | EEE |
| 8/13/2024 | Colchester | Chittenden | <i>Culiseta melanura</i> | EEE |
| 8/13/2024 | Grand Isle | Grand Isle | <i>Culiseta melanura</i> | EEE & WNV |
| 8/13/2024 | Swanton | Franklin | <i>Anopheles quadrimaculatus</i> | EEE |
| 8/13/2024 | Whiting | Addison | <i>Culiseta melanura</i> | EEE |
| 8/14/2024 | Hardwick | Caledonia | <i>Culex pipiens/restuans</i> | WNV |
| 8/14/2024 | Vergennes | Addison | <i>Culex pipiens/restuans</i> | EEE |
| 8/15/2024 | Derby | Orleans | <i>Culiseta melanura</i> | WNV |
| 8/15/2024 | Montpelier | Washington | <i>Culex pipiens/restuans</i> | WNV |

| Date Collected | Town | County | Species | Virus Result |
|----------------|-----------------|------------|----------------------------------|--------------|
| 8/19/2024 | Alburgh | Grand Isle | <i>Culiseta melanura</i> | EEE |
| 8/19/2024 | Colchester | Chittenden | <i>Culiseta melanura</i> | EEE |
| 8/19/2024 | Essex Junction | Chittenden | <i>Culex pipiens/restuans</i> | WNV |
| 8/19/2024 | Grand Isle | Grand Isle | <i>Culiseta melanura</i> | WNV |
| 8/19/2024 | St. Albans City | Franklin | <i>Culex pipiens/restuans</i> | WNV |
| 8/20/2024 | Grand Isle | Grand Isle | <i>Culiseta melanura</i> | EEE |
| 8/20/2024 | Leicester | Addison | <i>Culiseta melanura</i> | EEE |
| 8/20/2024 | New Haven | Addison | <i>Culiseta melanura</i> | EEE |
| 8/20/2024 | Rockingham | Windham | <i>Culex pipiens/restuans</i> | WNV |
| 8/20/2024 | Springfield | Windsor | <i>Culex pipiens/restuans</i> | WNV |
| 8/20/2024 | Whiting | Addison | <i>Culiseta melanura</i> | EEE |
| 8/21/2024 | Brandon | Rutland | <i>Culiseta melanura</i> | EEE |
| 8/21/2024 | Cornwall | Addison | <i>Culiseta melanura</i> | EEE |
| 8/21/2024 | Leicester | Addison | <i>Culiseta melanura</i> | EEE |
| 8/21/2024 | Sudbury | Rutland | <i>Aedes cinereus</i> | EEE |
| 8/21/2024 | Sudbury | Rutland | <i>Aedes vexans</i> | EEE |
| 8/21/2024 | Sudbury | Rutland | <i>Anopheles punctipennis</i> | EEE |
| 8/21/2024 | Sudbury | Rutland | <i>Anopheles quadrimaculatus</i> | EEE |
| 8/21/2024 | Sudbury | Rutland | <i>Culiseta melanura</i> | EEE |
| 8/21/2024 | Sudbury | Rutland | <i>Culex territans</i> | EEE |
| 8/21/2024 | Whiting | Addison | <i>Anopheles punctipennis</i> | EEE |
| 8/21/2024 | Whiting | Addison | <i>Culiseta melanura</i> | EEE |
| 8/21/2024 | Whiting | Addison | <i>Culex pipiens/restuans</i> | EEE |
| 8/22/2024 | Benson | Rutland | <i>Culiseta melanura</i> | EEE |
| 8/26/2024 | Alburgh | Grand Isle | <i>Culex pipiens/restuans</i> | WNV |
| 8/26/2024 | Alburgh | Grand Isle | <i>Ochlerotatus canadensis</i> | EEE |
| 8/26/2024 | Burlington | Chittenden | <i>Culex pipiens/restuans</i> | WNV |
| 8/26/2024 | Essex Junction | Chittenden | <i>Culex pipiens/restuans</i> | WNV |
| 8/26/2024 | Essex Junction | Chittenden | <i>Culex pipiens/restuans</i> | WNV |
| 8/26/2024 | Essex Junction | Chittenden | <i>Culex pipiens/restuans</i> | WNV |
| 8/26/2024 | Essex Junction | Chittenden | <i>Ochlerotatus japonicus</i> | WNV |
| 8/26/2024 | Swanton | Franklin | <i>Culiseta melanura</i> | EEE |
| 8/27/2024 | New Haven | Addison | <i>Culiseta melanura</i> | EEE |
| 8/27/2024 | Rockingham | Windham | <i>Culex pipiens/restuans</i> | WNV |
| 8/27/2024 | Stowe | Lamoille | <i>Culex pipiens/restuans</i> | WNV |
| 8/27/2024 | Stowe | Lamoille | <i>Culex pipiens/restuans</i> | WNV |
| 8/27/2024 | Whiting | Addison | <i>Aedes vexans</i> | EEE |
| 8/27/2024 | Whiting | Addison | <i>Coquilletidia perturbans</i> | EEE |
| 8/27/2024 | Whiting | Addison | <i>Culiseta melanura</i> | EEE |
| 8/28/2024 | Whiting | Addison | <i>Culiseta melanura</i> | EEE |
| 8/29/2024 | Colchester | Chittenden | <i>Coquilletidia perturbans</i> | EEE |

| Date Collected | Town | County | Species | Virus Result |
|-----------------------|-----------------|---------------|---------------------------------|---------------------|
| 8/29/2024 | Colchester | Chittenden | <i>Culiseta melanura</i> | EEE |
| 8/29/2024 | Montpelier | Washington | <i>Culex pipiens/restuans</i> | WNV |
| 9/1/2024 | Bennington | Bennington | <i>Culex pipiens/restuans</i> | WNV |
| 9/2/2024 | Milton | Chittenden | <i>Culiseta melanura</i> | EEE |
| 9/4/2024 | New Haven | Addison | <i>Culiseta melanura</i> | EEE |
| 9/4/2024 | Newport City | Orleans | <i>Culex pipiens/restuans</i> | WNV |
| 9/4/2024 | Vergennes | Addison | <i>Ochlerotatus trivittatus</i> | WNV |
| 9/4/2024 | Whiting | Addison | <i>Culiseta melanura</i> | EEE |
| 9/16/2024 | Essex Junction | Chittenden | <i>Culex pipiens/restuans</i> | WNV |
| 9/16/2024 | Essex Junction | Chittenden | <i>Culex pipiens/restuans</i> | WNV |
| 9/16/2024 | Milton | Chittenden | <i>Culiseta melanura</i> | WNV |
| 9/16/2024 | St. Albans City | Franklin | <i>Culex pipiens/restuans</i> | WNV |
| 9/16/2024 | Swanton | Franklin | <i>Ochlerotatus canadensis</i> | WNV |
| 9/18/2024 | Benson | Rutland | <i>Culiseta melanura</i> | EEE |
| 9/18/2024 | Leicester | Addison | <i>Culiseta melanura</i> | EEE & WNV |
| 9/18/2024 | Vergennes | Addison | <i>Culex pipiens/restuans</i> | WNV |
| 9/18/2024 | Whiting | Addison | <i>Culiseta melanura</i> | EEE |
| 9/18/2024 | Whiting | Addison | <i>Culiseta melanura</i> | EEE |
| 9/23/2024 | Alburgh | Grand Isle | <i>Culiseta melanura</i> | EEE |
| 9/23/2024 | Grand Isle | Grand Isle | <i>Culiseta melanura</i> | EEE |
| 9/30/2024 | Milton | Chittenden | <i>Aedes cinereus</i> | WNV |
| 9/30/2024 | Swanton | Franklin | <i>Culiseta melanura</i> | EEE |
| 10/9/2024 | Morristown | Lamoille | <i>Culiseta melanura</i> | EEE |

Table 3. 2024 Vermont Towns Trapped (*n*=87) (Vermont Agency of Agriculture, Food & Markets)

| Town | County | Town | County | Town | County |
|----------------|------------|-------------|------------|---------------|------------|
| Addison | Addison | Ferdinand | Essex | Rockingham | Windham |
| Alburgh | Grand Isle | Ferrisburgh | Addison | Royalton | Windsor |
| Bakersfield | Franklin | Franklin | Franklin | Rutland | Rutland |
| Barton | Orleans | Grand Isle | Grand Isle | S Burlington | Chittenden |
| Belvidere | Lamoille | Groton | Caledonia | Shaftsbury | Bennington |
| Bennington | Bennington | Hardwick | Caledonia | Shrewsbury | Rutland |
| Benson | Rutland | Highgate | Franklin | Springfield | Windsor |
| Berkshire | Franklin | Hyde Park | Lamoille | St Albans | Franklin |
| Berlin | Washington | Jay | Orleans | Stowe | Lamoille |
| Bolton | Chittenden | Jericho | Chittenden | Stratton | Windham |
| Bradford | Orange | Killington | Rutland | Sudbury | Rutland |
| Brandon | Rutland | Leicester | Addison | Sunderland | Bennington |
| Brighton | Essex | Londonderry | Windham | Sutton | Caledonia |
| Brookfield | Orange | Lowell | Orleans | Swanton | Franklin |
| Burke | Caledonia | Lunenburg | Essex | Thetford | Orange |
| Castleton | Rutland | Manchester | Bennington | Underhill | Chittenden |
| Charlotte | Chittenden | Marshfield | Washington | Vergennes | Addison |
| Colchester | Chittenden | Milton | Chittenden | Vernon | Windham |
| Concord | Essex | Montpelier | Washington | Victory | Essex |
| Cornwall | Addison | Morristown | Lamoille | Weathersfield | Windsor |
| Coventry | Orleans | New Haven | Addison | Weston | Windsor |
| Craftsbury | Orleans | Newbury | Orange | Whiting | Addison |
| Derby | Orleans | Newport | Orleans | Whitingham | Windham |
| E Montpelier | Washington | Norwich | Windsor | Williamstown | Orange |
| Eden | Lamoille | Pittsford | Rutland | Williston | Chittenden |
| Essex Junction | Chittenden | Pownal | Bennington | Windsor | Windsor |
| Fair Haven | Rutland | Proctor | Rutland | Woodstock | Windsor |
| Fairfax | Franklin | Putney | Windham | | |
| Fairfield | Franklin | Randolph | Orange | | |
| Fairlee | Orange | Richford | Franklin | | |

Rapid Response Mosquito Collections

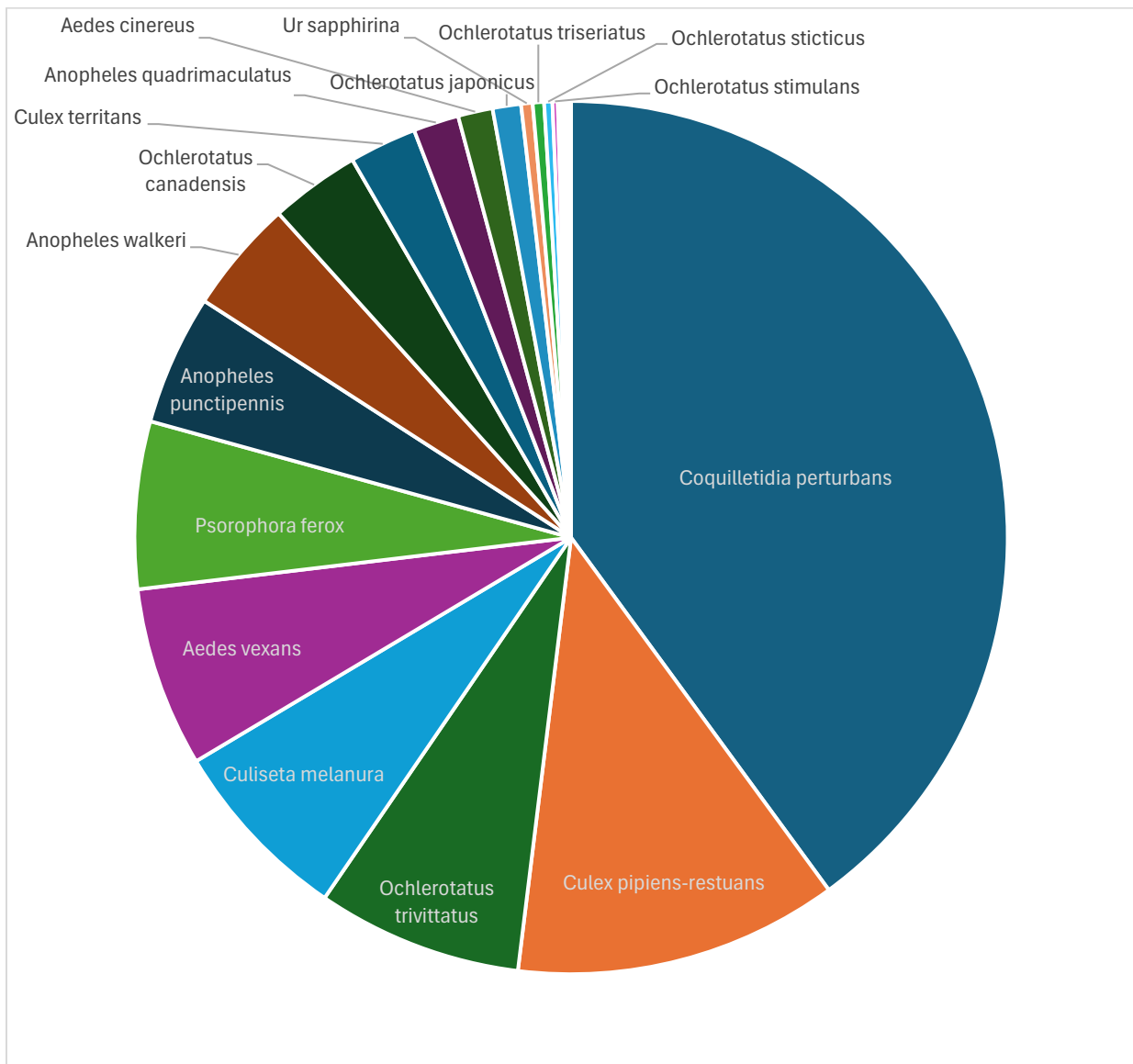
Starting in July 2024, EEE-positive mosquito pools in northwestern Vermont and later in west-central Vermont prompted additional rapid response mosquito trapping within 5 towns in 4 counties. CDC light traps were set once per week at 14 locations (16 total were set up and 2 were removed due to inactivity). Resting box traps from 21 permanent trapping locations in northwestern Vermont and west-central Vermont saw increased collection to twice per week rather than once (3 weeks in central VT and 6 weeks in NW VT). Increased CDC light trap collections were continued for the rest of the season.

2024 Vermont Mosquito Species Statistics (Vermont Agency of Agriculture, Food & Markets)

Table 4. 2024 Mosquito Species Collected and Tested for WNV and EEE

| Species | Number Collected | Collected (% of total) | Number Tested for WNV and EEE | Tested for WNV and EEE (% of total) |
|----------------------------------|-------------------------|-------------------------------|--------------------------------------|--|
| <i>Coquilletidia perturbans</i> | 51,068 | 39.95 | 16,050 | 24.57 |
| <i>Culex pipiens-restuans</i> | 15,337 | 12.00 | 11,777 | 18.03 |
| <i>Ochlerotatus trivittatus</i> | 9,717 | 7.60 | 7,403 | 11.33 |
| <i>Culiseta melanura</i> | 8,812 | 6.89 | 8,804 | 13.48 |
| <i>Aedes vexans</i> | 8,522 | 6.67 | 6,685 | 10.23 |
| <i>Psorophora ferox</i> | 7,910 | 6.19 | 0 | 0.00 |
| <i>Anopheles punctipennis</i> | 6,169 | 4.83 | 4,198 | 6.43 |
| <i>Anopheles walkeri</i> | 5,363 | 4.20 | 0 | 0.00 |
| <i>Ochlerotatus canadensis</i> | 4,260 | 3.33 | 4,231 | 6.48 |
| <i>Culex territans</i> | 3,193 | 2.50 | 1,875 | 2.87 |
| <i>Anopheles quadrimaculatus</i> | 2,155 | 1.69 | 1,640 | 2.51 |
| <i>Aedes cinereus</i> | 1,642 | 1.28 | 1,182 | 1.81 |
| <i>Ochlerotatus japonicus</i> | 1,344 | 1.05 | 1,191 | 1.82 |
| <i>Uranotaenia sapphirina</i> | 545 | 0.43 | 0 | 0.00 |
| <i>Ochlerotatus triseriatus</i> | 535 | 0.42 | 0 | 0.00 |
| <i>Ochlerotatus sticticus</i> | 388 | 0.30 | 0 | 0.00 |
| <i>Ochlerotatus stimulans</i> | 248 | 0.19 | 0 | 0.00 |
| <i>Culex salinarius</i> | 165 | 0.13 | 139 | 0.21 |
| <i>Ochlerotatus excrucians</i> | 126 | 0.10 | 0 | 0.00 |
| <i>Ochlerotatus abserratus</i> | 97 | 0.08 | 0 | 0.00 |
| <i>Culiseta morsitans</i> | 92 | 0.07 | 92 | 0.14 |
| <i>Culiseta minnesotae</i> | 57 | 0.04 | 57 | 0.09 |
| <i>Ochlerotatus aurifer</i> | 50 | 0.04 | 0 | 0.00 |
| <i>Anopheles earlei</i> | 10 | 0.01 | 0 | 0.00 |
| <i>Ochlerotatus atropalpus</i> | 6 | 0.00 | 0 | 0.00 |
| <i>Ochlerotatus fitchii</i> | 6 | 0.00 | 0 | 0.00 |
| <i>Ochlerotatus provocans</i> | 6 | 0.00 | 0 | 0.00 |
| <i>Ochlerotatus intrudens</i> | 3 | 0.00 | 0 | 0.00 |
| <i>Ochlerotatus communis</i> | 2 | 0.00 | 0 | 0.00 |
| <i>Psorophora ciliata</i> | 2 | 0.00 | 0 | 0.00 |
| <i>Anopheles barberi</i> | 1 | 0.00 | 0 | 0.00 |
| <i>Ochlerotatus dorsalis</i> | 1 | 0.00 | 0 | 0.00 |
| <i>Orthopodomyia alba</i> | 1 | 0.00 | 0 | 0.00 |
| Total | 127,833 | | 65,324 | |

Mosquito species collected in Vermont, 2024 (Vermont Agency of Agriculture, Food & Markets)



Vermont Agency of Agriculture, Food & Markets' Targeted *Aedes albopictus* Surveillance

Aedes albopictus (Asian Tiger Mosquito) is believed to be a potential weak vector of Zika, and is a competent vector of dengue, chikungunya, and yellow fever in tropical and subtropical areas where these diseases are endemic. It has an estimated geographic range that includes southern Vermont; however, those diseases are not endemic to our area.

In 2024, 13 oviposition trap locations were surveyed for 10 weeks (June 25 - September 4). Sites were located along major truck routes at rest areas, truck stops, tire dealerships, and transfer stations, as this mosquito species is a container breeder with a preference for tires. Eggs were collected, counted at VAEL, and processed at the Massachusetts Department of Public Health Laboratory in Boston MA for rearing and larval identification.

Aedes albopictus eggs were found at 1 site in Rutland County for 1 week and at 1 site in Bennington County for 1 week. *Aedes albopictus* mosquito eggs were also found at 1 site in Windham County for a total of 6 weeks, with 5 consecutive weeks of detections. *Aedes albopictus* had been detected for the first time in Vermont at this Windham County site in 2019, with detections every year since.

10 BG-GATs (Biogents Gravid Aedes Trap) were set at 5 sites within one mile of the established population in Windham County. Adult *Aedes albopictus* were collected from the BG-GATs set at the original oviposition location, the other 4 sites did not collect any adult *Aedes albopictus*.

It appears this species is established in Vermont, having been detected for several weeks consecutively each year over 5 years. The Agency will continue to track the presence of this species.

