

# Tarrant County Public Health

## Weekly Arbovirus Surveillance Report: MMWR Week Sep 21-Sep 27, 2025



### Week 39 Summary

- 110 mosquito pools\* have been tested in NTRL from week 39
  - Year-to-date NTRL has tested a total of 2898 mosquito pools
- 14 mosquito pools tested positive for WNV this week:  
Colleyville (3) Fort Worth\* (2) Grand Prairie\* (2) Keller (1) Mansfield (1) Pantego (1) Unincorporated (4)
- Average number of mosquitoes/trap include:
  - *Culex spp*: 45.9
  - *Aedes aegypti* and 11.3
  - *Aedes albopictus*:

NTRL– North Texas Regional Lab

WNV= West Nile virus; SLEV St. Louis encephalitis virus \* May include data from outside Tarrant County

### Cumulative Positive WNV Pools per Municipality

There have been a total of 269 positives in 2025

Arlington (31) Bedford (4) Benbrook (1) Burleson \*(23) Colleyville (13) Crowley (7)  
Dalworthington Gardens (1) DFW Airport\*(2) Euless (13) Fort Worth\* (89) Grand Prairie\* (8)  
Grapevine (3) Haltom City (5) Haslet (5) Hurst (3) Keller (8) Lake Worth (5) Mansfield\* (4)  
North Richland Hills (6) Pantego (6) River Oaks (4) Unincorporated (18) Watauga (7)  
Westover Hills (3)

\* May include data from outside Tarrant County

**Table 1. MLE<sup>(1)</sup> and VI<sup>(2)</sup> for County Quadrants, Weeks 38 and 39**

|         | County Quadrant | # Gravid traps | Ave F <i>Culex</i> spp | Positive pools | MLE (Lower-Upper Limit) | VI    |
|---------|-----------------|----------------|------------------------|----------------|-------------------------|-------|
| Week 38 | Northeast       | 54             | 45.2                   | 0.0            | 0.00 (0.00-2.56)        | 0.000 |
|         | Northwest       | 34             | 97.4                   | 1.0            | 0.66 (0.04-3.19)        | 0.060 |
|         | Southeast       | 37             | 41.1                   | 1.0            | 1.18 (0.07-5.79)        | 0.067 |
|         | Southwest       | 25             | 61.7                   | 2.0            | 2.67 (0.49-8.79)        | 0.148 |
| Week 39 | Northeast       | 37             | 35.8                   | 5.0            | 6.41 (2.38-14.46)       | 0.227 |
|         | Northwest       | 21             | 73.7                   | 1.0            | 1.24 (0.07-6.08)        | 0.091 |
|         | Southeast       | 27             | 46.7                   | 4.0            | 4.82 (1.58-11.73)       | 0.225 |
|         | Southwest       | 17             | 33.0                   | 2.0            | 5.09 (0.91-17.41)       | 0.167 |

Data source: Tarrant County Public Health

1. MLE= Maximum Likelihood or the estimate of the mosquito infection rate per mosquito species. 2. VI= Vector Index which is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV

Averages, MLE, and limits will be given for species with identified infection rates only and only for the latest two week. MLE, Lower and Upper Limits are based on a 95% confidence interval. All data in this table is based on collection date.

Calculated using a Maximum Likelihood Estimation (MLE). Biggerstaff, Brad J. PooledInfRate, Version 4.0: a Microsoft® Office Excel® Add-In to compute prevalence estimates from pooled samples. Centers for Disease Control and Prevention, Fort Collins, CO, U.S.A., 2009

## Cumulative Data for the Tarrant County Region, Weeks 36-39

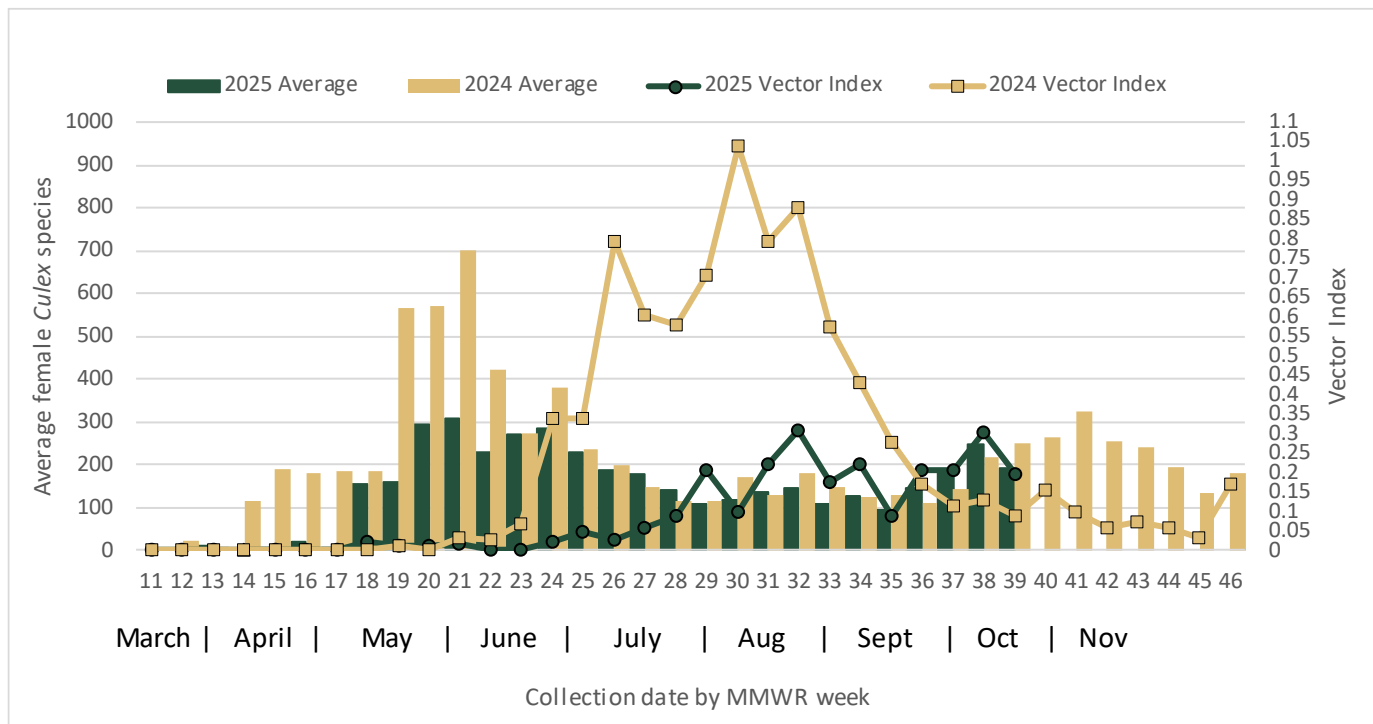
| Week                                                                                  | Aug 31-<br>Sep 6 | Sep 7-<br>Sep 13 | Sep 14-<br>Sep 20 | Sep 21-<br>Sep 27 | YTD      |
|---------------------------------------------------------------------------------------|------------------|------------------|-------------------|-------------------|----------|
| MMWR Week                                                                             | 36               | 37               | 38                | 39                |          |
| Total number of gravid traps set in Tarrant Region                                    | 163              | 174              | 178               | 122               | 3664     |
| Average number of <i>Culex spp</i> per gravid trap                                    | 38.7             | 40.1             | 59.2              | 45.9              | 46.0     |
| Number of mosquito pools tested <sup>1</sup> (NTRL; non-NTRL)                         | 132;24           | 134;30           | 148;26            | 110;9             | 2898;624 |
| Number of positive mosquito pools (NTRL; non-NTRL) <sup>1</sup>                       | 17;5             | 16;2             | 24;4              | 12;2              | 242;27   |
| WNV infection rate per 1,000 <i>Culex spp</i> <sup>2</sup>                            | 5.58             | 5.39             | 0.89              | 4.36              |          |
| Weekly vector index <sup>3</sup>                                                      | 0.207            | 0.203            | 0.305             | 0.194             |          |
| Total BG Sentinel traps set in Tarrant Region                                         | 25               | 25               | 22                | 25                | 502      |
| Average number of female <i>Aedes aegypti</i> and <i>Aedes albopictus</i> per BG trap | 9.3              | 9.1              | 14.2              | 11.3              | 7.7      |

<sup>1</sup> Based on mosquito collection date; NTRL = North Texas Regional Laboratory

<sup>2</sup> Calculated using a Maximum Likelihood Estimation (MLE). Biggerstaff, Brad J. PooledInfRate, Version 4.0: a Microsoft® Office Excel® Add-In to compute prevalence estimates from pooled samples. Centers for Disease Control and Prevention, Fort Collins, CO, U.S.A., 2009 *Culex spp.* includes pools of both *Cx restuans* and *Cx quinquefasciatus*. These MLEs are calculated separately, per species and added together as per instructions by CDC.

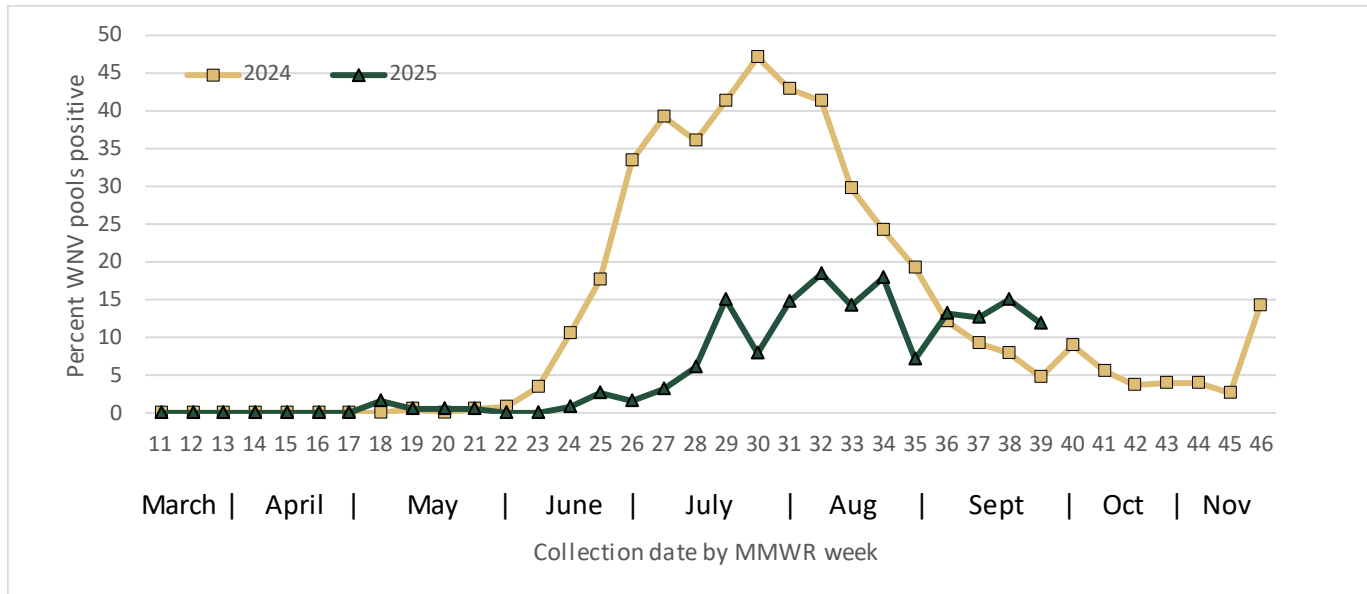
<sup>3</sup> Vector Index is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV  
Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to change due to on-going case investigations, mosquito collection, and testing. Data source: Tarrant County Public Health

**Figure 1. Average Number of Female *Culex* Species Per Trap and Vector Index by Collection Date, Tarrant County, 2024-2025**



Data Source: Tarrant County Public Health

**Figure 2. Percentage of Mosquito Pools Positive for WNV by Collection Date, Tarrant County, 2024-2025**



Data Source: Tarrant County Public Health

**Table 3. North Texas Arbovirus Activity as Reported by Texas DSHS on September 30, 2025**

| North Texas Counties           | WNV                     |             |           |  | CHIKV                   |             | DENV                    |             | SLEV                    |             | Zika                    |             |
|--------------------------------|-------------------------|-------------|-----------|--|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|-------------------------|-------------|
|                                | Positive Mosquito Pools | Human cases |           |  | Positive Mosquito Pools | Human Cases | Positive Mosquito Pools | Human Cases | Positive Mosquito Pools | Human Cases | Positive Mosquito Pools | Human Cases |
| Collin                         | 17                      | 1 WNF;      | 1 WNND    |  | 0                       | 0           | 0                       | 0           | 0                       | 0           | 0                       | 0           |
| Dallas                         | 255                     | 1 WNF;      | 4 WNND    |  | 0                       | 0           | 0                       | 4           | 0                       | 0           | 0                       | 0           |
| Denton                         | 47                      | 1 WNF;      | 1 WNND    |  | 0                       | 0           | 0                       | 2           | 0                       | 0           | 0                       | 0           |
| Johnson                        | 25                      | 0 WNF;      | 0 WNND    |  | 0                       | 0           | 0                       | 0           | 1                       | 0           | 0                       | 0           |
| <b>Non-Tarrant North Texas</b> | <b>344</b>              | <b>3</b>    | <b>6</b>  |  | <b>0</b>                | <b>0</b>    | <b>0</b>                | <b>6</b>    | <b>1</b>                | <b>0</b>    | <b>0</b>                | <b>0</b>    |
| <b>All Texas Counties</b>      | <b>903</b>              | <b>14</b>   | <b>29</b> |  | <b>0</b>                | <b>2</b>    | <b>0</b>                | <b>37</b>   | <b>15</b>               | <b>0</b>    | <b>0</b>                | <b>0</b>    |

\*All reported CHIKV, DENV, & Zika human cases are travel-related

WNV– West Nile virus; WNF– West Nile fever; WNND– West Nile neuroinvasive disease; CHIKV– Chikungunya virus; DENV– Dengue virus; SLEV– St. Louis encephalitis virus

**For Additional Information Please Visit The Links Below:**

**Tarrant County Public Health:**

- [Vector Control](#)
- [Be Mosquito Free](#)
- [WNV Interactive Mapping Tool](#)
- [Eliminating Mosquito Breeding Sites](#)
- [Mosquitoes Love Water](#)

**Environmental Protection Agency:**

- [Insect Repellent Information](#)

**Texas Department of State Health Services:**

- [DSHS Mosquito-Borne Diseases](#)
- [DSHS West Nile virus](#)
- [DSHS Dengue](#)
- [Arbovirus Activity Reports](#)

**Center for Disease Control and Prevention:**

- [CDC West Nile virus](#)
- [CDC Dengue](#)