# Tarrant County Public Health

## Weekly Arbovirus Surveillance Report

## MMWR Week July 12 - 18, 2026

### Week 28 Summary

130 mosquito pools* have been tested in NTRL from week 28

- Year-to-date NTRL has tested a total of 1559 mosquito pools

19 mosquito pools tested positive for WNV this week:
Bedford (1) Burleson* (1) Colleyville (2) Euless (1) Fort Worth (6) Grapevine (1) Grand Prairie* (1) Keller (2) Southlake (2) Unincorporated (2)

Average number of mosquitoes/trap include:

- Culex spp: 31.7
- Aedes aegypti and Aedes albopictus: 2.9

NTRL - North Texas Regional Lab WNV - West Nile virus; SLEV - St. Louis encephalitis virus * May include data from outside Tarrant County

### Commulative Positive WNV Pools per Municipality

There have been a total of 81 positives in 2026

Arlington (5) Bedford (4) Burleson *(4) Colleyville (8) Euless (7) Fort Worth (18) Grand Prairie* (10) Grapevine (3) Haslet (1) Hurst (1) Keller (5) North Richland Hills (1) Pantego (5) Southlake (3) Unincorporated (6)

* May include data from outside Tarrant County

### Table 1. MLE[(1)] and VI[(2)] for County Quadrants, Weeks 27 and 28

| | County Quadrant | # Gravid Traps | Ave F Culex spp | Positive Pools | MLE (Lower-Upper Limit) | VI |
|---|---|---|---|---|---|---|
| Week 27 | Northeast | 57 | 23.5 | 5 | 4.76 (1.80-10.48) | 0.11 |
| | Northwest | 25 | 87.7 | 1 | 1.01 (0.06-4.94) | 0.09 |
| | Southeast | 35 | 24.8 | 2 | 2.74 (0.50-9.00) | 0.07 |
| | Southwest | 21 | 31.0 | 0 | 0.00 (0.00-6.40) | 0.00 |
| Week 28 | Northeast | 53 | 23.4 | 11 | 11.56 (6.25-19.97) | 0.27 |
| | Northwest | 25 | 39.8 | 2 | 2.53 (0.46-8.30) | 0.10 |
| | Southeast | 36 | 31.2 | 2 | 2.95 (0.53-9.70) | 0.09 |
| | Southwest | 18 | 30.9 | 3 | 6.24 (1.69-17.04) | 0.19 |

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 25-28

| Week | June 21 - June 27 | June 28 - July 4 | July 5 - July 11 | July 12 - July 18 | YTD |
|---|---|---|---|---|---|
| MMWR Week | 25 | 26 | 27 | 28 | |
| Total Number of gravid traps set in Tarrant Region | 162 | 152 | 164 | 159 | 1928 |
| Average number of Culex spp per gravid trap | 39.7 | 28.8 | 36.8 | 31.7 | 57.3 |
| Number of mosquito pools tested[1] (NTRL; non-NTRL) | 137;20 | 128;20 | 140;20 | 130;22 | 1559;307 |
| Number of positive mosquito pools (NTRL; non-NTRL)[1] | 11;2 | 12;0 | 8;0 | 18;1 | 71;10 |
| WNV infection rate per 1,000 Culex spp[2] | 3.07 | 4.15 | 2.45 | 6.32 | |
| Weekly vector index3 | 0.120 | 0.118 | 0.087 | 0.197 | |
| Total BG Sentinel traps set in Tarrant Region | 32 | 26 | 28 | 23 | 291 |
| Average number of female Aedes aegytpi and Aedes albopictus per BG trap | 7.0 | 5.6 | 4.6 | 2.9 | 4.9 |

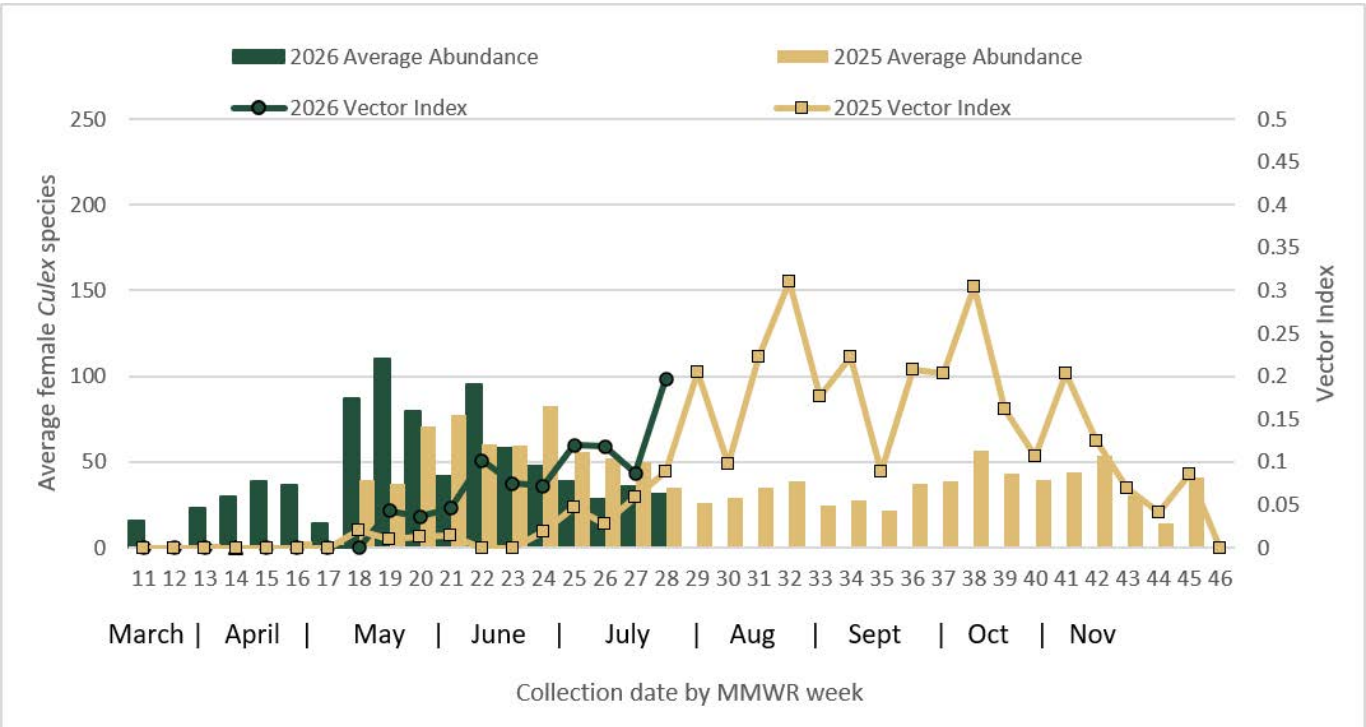
1 Based on mosquito collection date; NTRL = North Texas Regional Laboratory

2 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.

3 Vector Index is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV

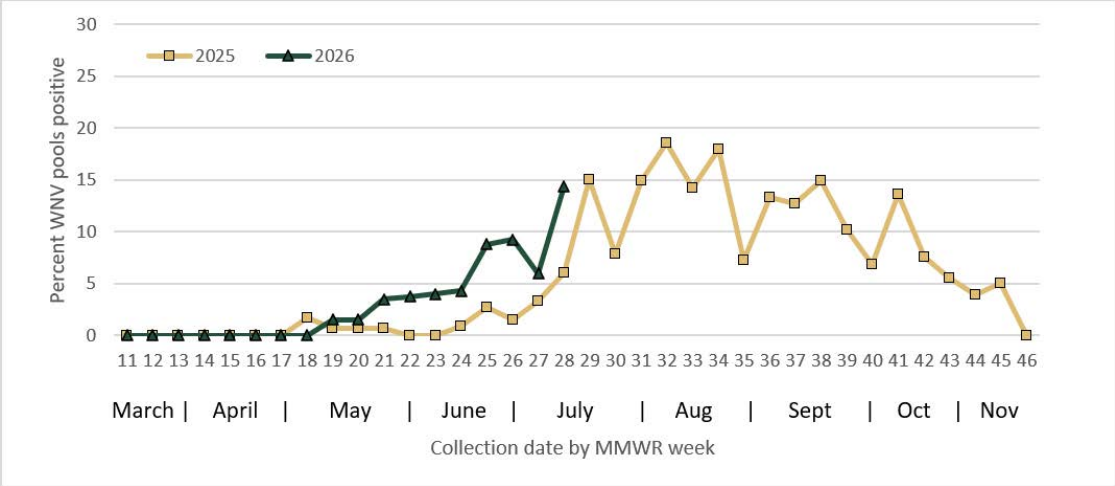
Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to change due to on-going case investigations, mosquito collection, and testing. Data source: Tarrant County Public Health

## Figure 1. Average Number of Female Culex Species Per Trap and Vector Index by Collection Date, Tarrant County, 2025-2026




*Data Source: Tarrant County Public Health*

## Figure 2. Percentage of Mosquito Pools Positive for WNV by Collection Date, Tarrant County, 2025-2026




*Data Source: Tarrant County Public Health*

## Table 3. North Texas Arbovirus Activity as Reported by Texas DSHS on July 21, 2026

| | WNV | | | | | CHIKV | | DENV | | SLEV | | Zika | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **North Texas Counties** | **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 | 5 | 0 | WNF | 0 | WNND | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| Dallas | 121 | 0 | WNF | 0 | WNND | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Denton | 24 | 1 | WNF | 0 | WNND | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Johnson | 3 | 0 | WNF | 0 | WNND | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Tarrant | 83 | 0 | WNF | 0 | WNND | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **North Texas** | 236 | 1 | WNF | 0 | WNND | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| | | | | | | | | | | | | | |
| **All Texas Counties** | 763 | 3 | | 5 | | 0 | 3 | 0 | 5 | 0 | 0 | 0 | 0 |

*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