

# Tarrant County Public Health

## Weekly Arbovirus Surveillance Report: MMWR Week Jun 15-Jun 21, 2025



### Week 25 Summary

- 147 mosquito pools\* have been tested in NTRL from week 25
  - Year-to-date NTRL has tested a total of 1014 mosquito pools
- 6 mosquito pools tested positive for WNV this week:  
Arlington (1) Burleson\* (1) Fort Worth\* (2) Grand Prairie\* (1) Unincorporated (1)
- Average number of mosquitoes/trap include:
  - *Culex spp*: 59.7
  - *Aedes aegypti* and 10.9
  - *Aedes albopictus*:

NTRL– North Texas Regional Lab

WNV= West Nile virus; CHIKV= chikungunya virus; DENV= dengue 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 12 positives in 2025

Arlington (1) Burleson \*(2) Euless (1) Fort Worth\* (3) Grand Prairie\* (1) Grapevine (1)  
Lake Worth (1) River Oaks (1) Unincorporated (1)

\* May include data from outside Tarrant County

**Table 1. MLE<sup>(1)</sup> and VI<sup>(2)</sup> for County Quadrants, Weeks 24 and 25**

	County Quadrant	# Gravid traps	Ave F <i>Culex</i> spp	Positive pools	MLE (Lower-Upper Limit)	VI
Week 24	Northeast	52	59.4	1.0	0.56 (0.03-2.69)	0.033
	Northwest	33	140.8	0.0	0.00 (0.00-2.65)	0.000
	Southeast	30	45.5	0.0	0.00 (0.00-3.86)	0.000
	Southwest	18	40.9	0.0	0.00 (0.00-7.83)	0.000
Week 25	Northeast	56	36.8	0.0	0.00 (0.00-2.56)	0.000
	Northwest	37	91.8	1.0	0.66 (0.04-3.19)	0.060
	Southeast	29	57.1	1.0	1.18 (0.07-5.79)	0.067
	Southwest	21	55.6	2.0	2.67 (0.49-8.79)	0.148

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 22-25

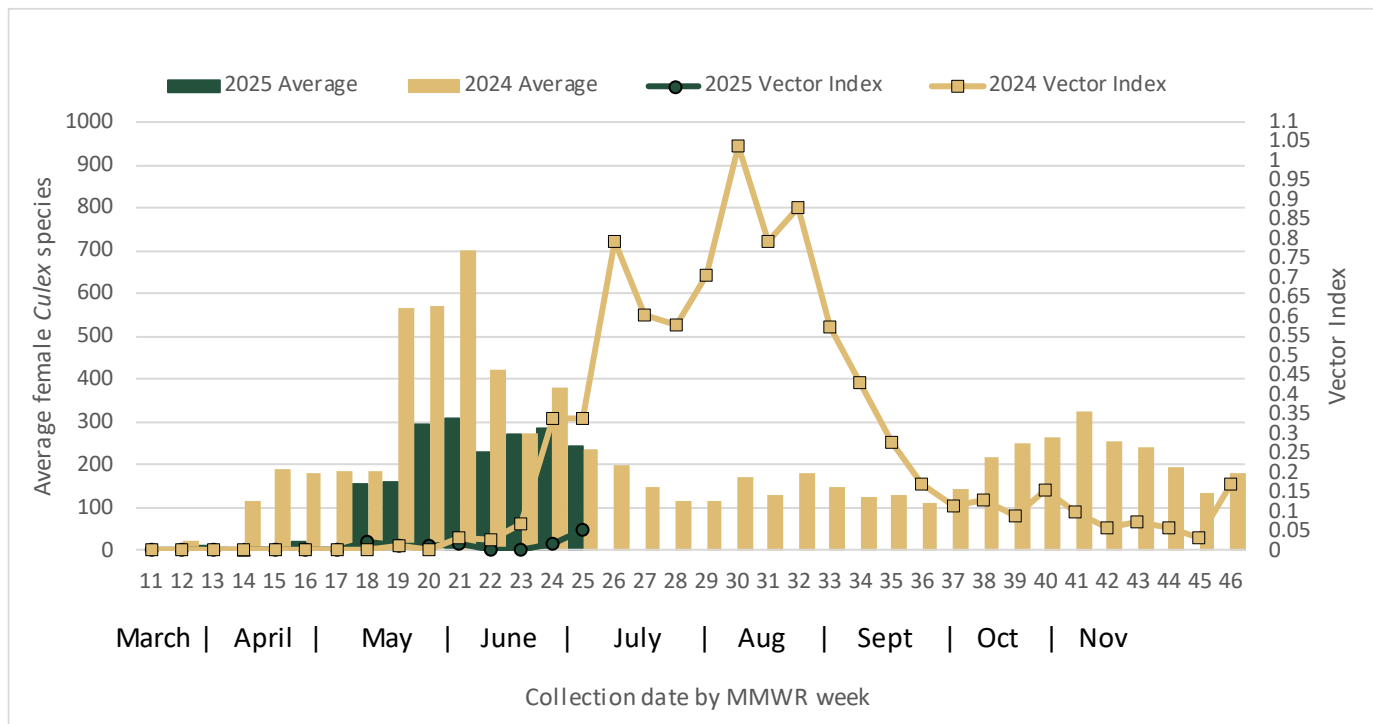
Week	May 25- May 31	Jun 1- Jun 7	Jun 8- Jun 14	Jun 15- Jun 21	YTD
MMWR Week	22	23	24	25	
Total number of gravid traps set in Tarrant Region	159	188	157	168	1305
Average number of <i>Culex spp</i> per gravid trap	61.2	61.2	83.7	59.7	60.6
Number of mosquito pools tested <sup>1</sup> (NTRL; non-NTRL)	130;34	147;25	123;27	147;11	1014;243
Number of positive mosquito pools (NTRL; non-NTRL) <sup>1</sup>	0;0	1;0	1;0	5;1	11;1
WNV infection rate per 1,000 <i>Culex spp</i> <sup>2</sup>	0.00	0.00	0.22	0.89	
Weekly vector index <sup>3</sup>	0.000	0.000	0.017	0.052	
Total BG Sentinel traps set in Tarrant Region	25	22	24	22	172
Average number of female <i>Aedes aegypti</i> and <i>Aedes albopictus</i> per BG trap	5.6	10.6	12.6	10.9	7.0

<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.

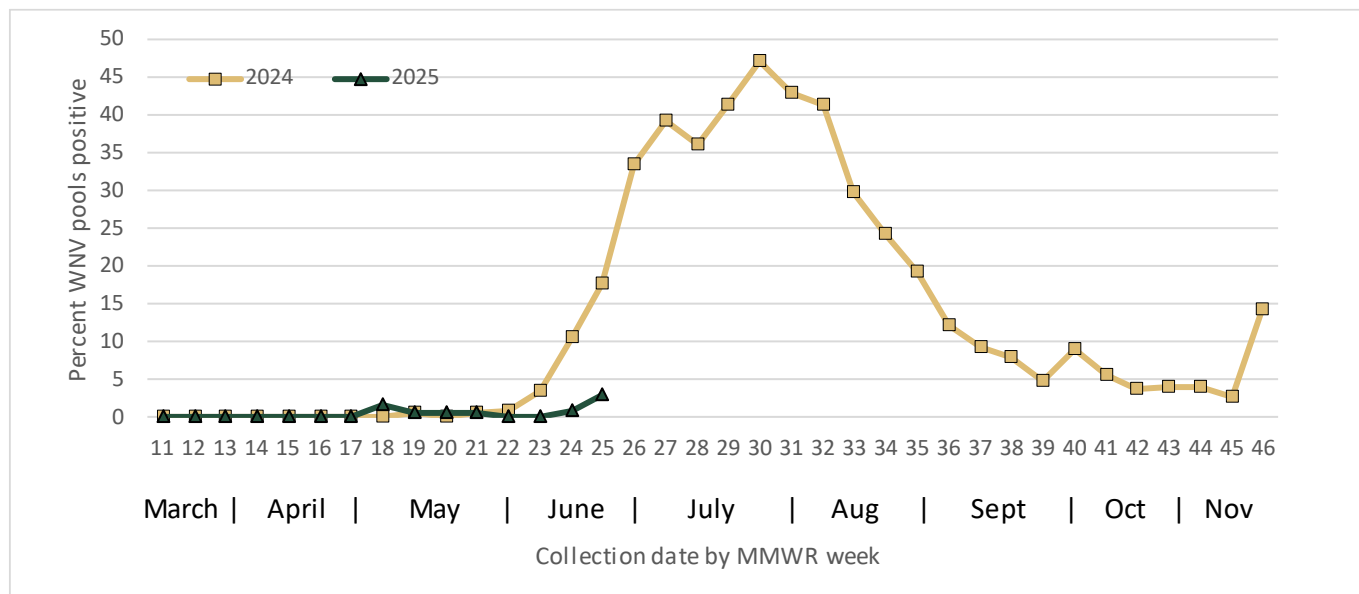
<sup>3</sup> Vector Index is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV  
Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to 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 June 24, 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	0	0	WNF;	0	WNND	0	0	0	0	0	0	0
Dallas	15	0	WNF;	0	WNND	0	0	1	0	0	0	0
Denton	4	0	WNF;	0	WNND	0	0	0	0	0	0	0
Johnson	1	0	WNF;	0	WNND	0	0	0	0	0	0	0
Non-Tarrant North Texas	20	0		0		0	0	1	0	0	0	0
<b>All Texas Counties</b>	<b>40</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>1</b>	<b>12</b>	<b>0</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](#)