

Tarrant County Public Health

Weekly Arbovirus Surveillance Report: MMWR Week Jun 8-Jun 14, 2025



Week 24 Summary

- 123 mosquito pools* have been tested in NTRL from week 24
 - Year-to-date NTRL has tested a total of 867 mosquito pools
- 1 mosquito pools tested positive for WNV this week:
 - Grapevine (1)
- Average number of mosquitoes/trap include:
 - *Culex spp*: 88.1
 - *Aedes aegypti* and 12.6
 - *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 6 positives in 2025

Burleson *(1) Euless (1) Fort Worth* (1) Grapevine (1) Lake Worth (1) River Oaks (1)

* May include data from outside Tarrant County

Table 1. MLE⁽¹⁾ and VI⁽²⁾ for County Quadrants, Weeks 23 and 24

	County Quadrant	# Gravid traps	Ave F <i>Culex</i> spp	Positive pools	MLE (Lower-Upper Limit)	VI
Week 23	Northeast	58	36.1	0.0	0.00 (0.00-2.38)	0.000
	Northwest	32	150.7	0.0	0.00 (0.00-2.97)	0.000
	Southeast	37	42.4	0.0	0.00 (0.00-3.86)	0.000
	Southwest	24	51.0	0.0	0.00 (0.00-4.48)	0.000
Week 24	Northeast	48	61.6	1.0	0.59 (0.03-2.87)	0.036
	Northwest	30	152.2	0.0	0.00 (0.00-2.81)	0.000
	Southeast	27	48.0	0.0	0.00 (0.00-4.14)	0.000
	Southwest	15	37.8	0.0	0.00 (0.00-7.67)	0.000

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 21-24

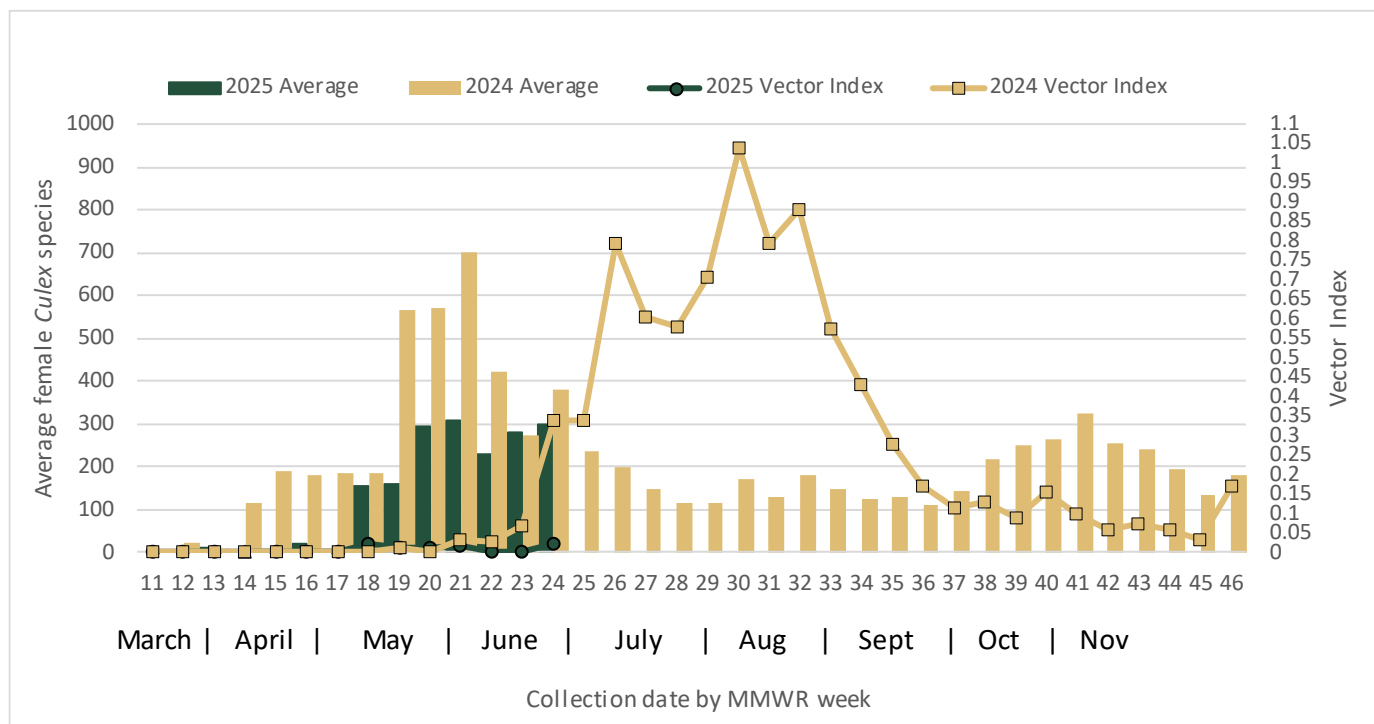
Week	May 18- May 24	May 25- May 31	Jun 1- Jun 7	Jun 8- Jun 14	YTD
MMWR Week	21	22	23	24	
Total number of gravid traps set in Tarrant Region	165	159	176	144	1112
Average number of <i>Culex spp</i> per gravid trap	79.1	61.2	62.2	88.1	61.2
Number of mosquito pools tested ¹ (NTRL; non-NTRL)	132;35	130;34	147;17	123;14	867;211
Number of positive mosquito pools (NTRL; non-NTRL) ¹	1;0	0;0	1;0	1;0	6;0
WNV infection rate per 1,000 <i>Culex spp</i> ²	0.20	0.00	0.00	0.24	
Weekly vector index ³	0.014	0.000	0.000	0.020	
Total BG Sentinel traps set in Tarrant Region	19	25	22	24	150
Average number of female <i>Aedes aegypti</i> and <i>Aedes albopictus</i> per BG trap	4.6	5.6	10.6	12.6	6.4

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.

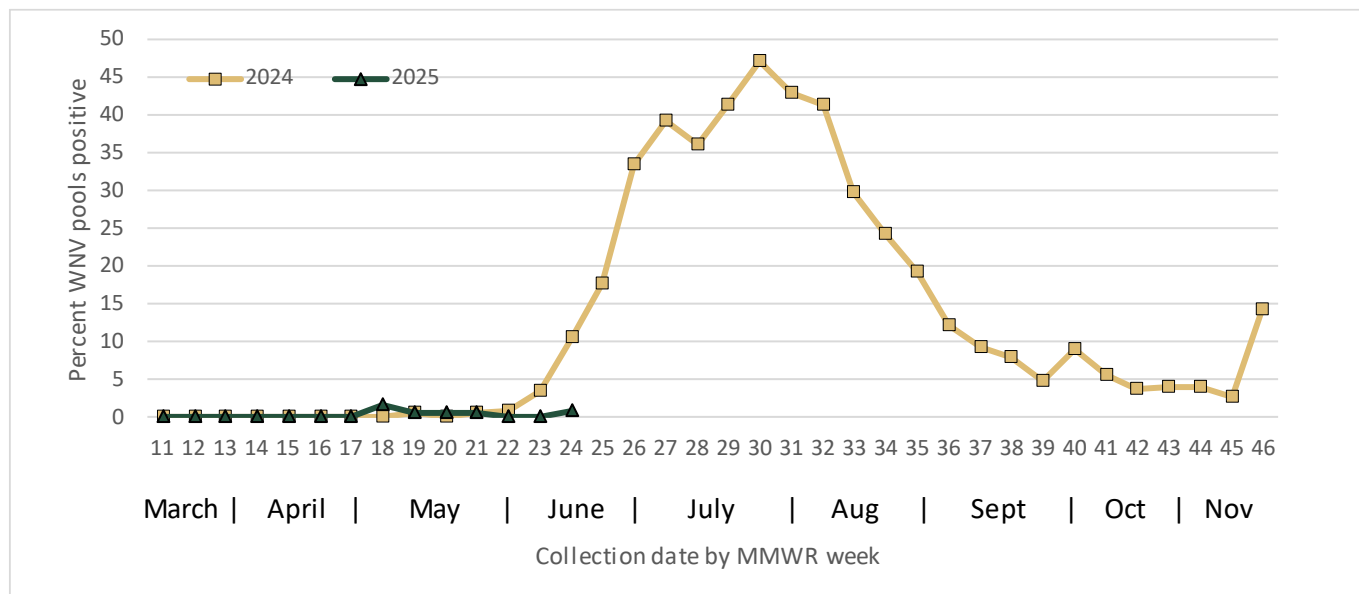
³ Vector Index is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV
Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to change due to 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, 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 17, 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	7	0	WNF;	0	WNND	0	0	0	1	0	0	0
Denton	1	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	9	0		0		0	0	1	0	0	0	0
All Texas Counties	24	0		0		0	0	10	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](#)