

Tarrant County Public Health

Weekly Arbovirus Surveillance Report: MMWR Week Jun 22-Jun 28, 2025



Week 26 Summary

- 125 mosquito pools* have been tested in NTRL from week 26
 - Year-to-date NTRL has tested a total of 1139 mosquito pools
- 2 mosquito pools tested positive for WNV this week:
Fort Worth* (2)

- Average number of mosquitoes/trap include:

- *Culex spp*: 61.0
- *Aedes aegypti* and 10.2
- *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 14 positives in 2025

Arlington (1) Burleson *(2) Euless (1) Fort Worth* (5) Grand Prairie* (1) Grapevine (1)
Lake Worth (1) River Oaks (1) Unincorporated (1)

* May include data from outside Tarrant County

Table 1. MLE⁽¹⁾ and VI⁽²⁾ for County Quadrants, Weeks 25 and 26

	County Quadrant	# Gravid traps	Ave F <i>Culex</i> spp	Positive pools	MLE (Lower-Upper Limit)	VI
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
Week 26	Northeast	52	53.8	0.0	0.00 (0.00-2.65)	0.000
	Northwest	16	55.3	0.0	0.00 (0.00-5.69)	0.000
	Southeast	33	51.8	0.0	0.00 (0.00-3.19)	0.000
	Southwest	21	41.4	2.0	3.66 (0.67-12.14)	0.152

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 23-26

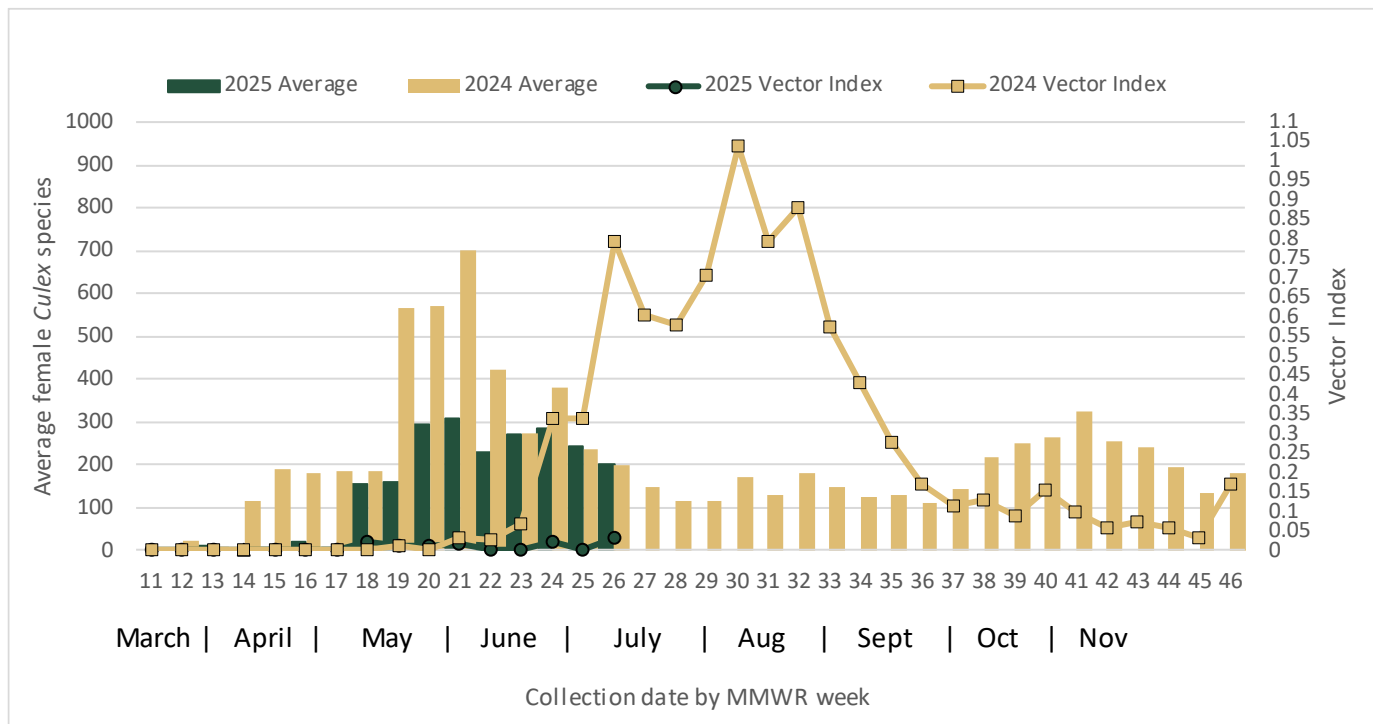
Week	Jun 1- Jun 7	Jun 8- Jun 14	Jun 15- Jun 21	Jun 22- Jun 28	YTD
MMWR Week	23	24	25	26	
Total number of gravid traps set in Tarrant Region	188	157	168	146	1451
Average number of <i>Culex spp</i> per gravid trap	61.2	83.7	59.7	61.0	60.7
Number of mosquito pools tested ¹ (NTRL; non-NTRL)	147;25	123;27	147;11	125;38	1139;281
Number of positive mosquito pools (NTRL; non-NTRL) ¹	1;0	1;0	5;1	2;0	13;1
WNV infection rate per 1,000 <i>Culex spp</i> ²	0.00	0.24	0.89	0.55	
Weekly vector index ³	0.000	0.019	0.052	0.033	
Total BG Sentinel traps set in Tarrant Region	22	24	22	24	196
Average number of female <i>Aedes aegypti</i> and <i>Aedes albopictus</i> per BG trap	10.6	12.6	10.9	10.2	7.4

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.

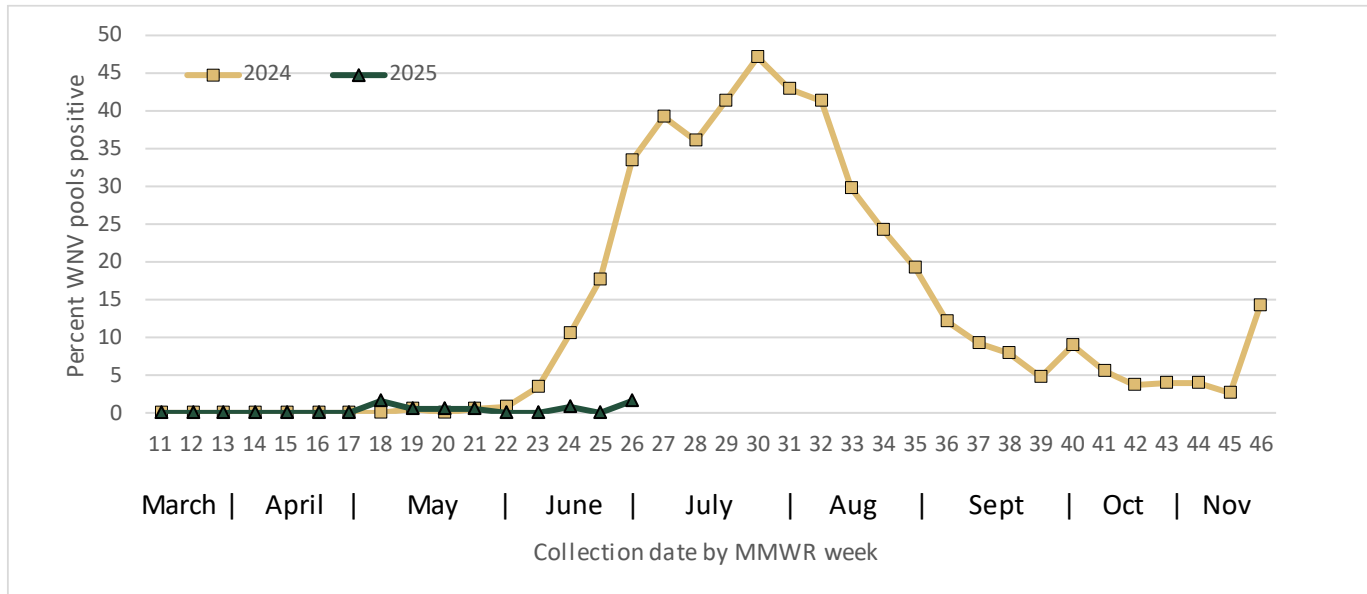
³ Vector Index is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV
Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to change due to 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 July 1, 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	23	0	WNF;	0	WNND	0	0	1	0	0	0	0
Denton	5	0	WNF;	0	WNND	0	0	0	0	0	0	0
Johnson	2	0	WNF;	0	WNND	0	0	0	0	0	0	0
Non-Tarrant North Texas	30	0		0		0	0	1	0	0	0	0
All Texas Counties	63	1		0		0	1	15	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](#)