



Tarrant County Public Health

Final Weekly Arbovirus Surveillance Report: MMWR Week Oct 26-Nov 1, 2025

Week 44 Summary

- 86 mosquito pools* have been tested in NTRL from week 44
 - Year-to-date NTRL has tested a total of 3524 mosquito pools
- 6 mosquito pools tested positive for WNV this week:
Arlington (1) Burleson* (3) Euless (1) Unincorporated (1)
- Average number of mosquitoes/trap include:
 - Culex spp*: 18.4
 - Aedes aegypti* and 2.0
 - 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 330 positives in 2025

Arlington (39) Azle (1) Bedford (6) Benbrook (2) Burleson *(29) Colleyville (19) Crowley (9) Dalworthington Gardens (1) DFW Airport*(2) Euless (15) Fort Worth* (99) Grand Prairie* (14) Grapevine (8) Haltom City (6) Haslet (5) Hurst (4) Keller (9) Lake Worth (5) Mansfield* (8) North Richland Hills (6) Pantego (6) River Oaks (4) Unincorporated (23) Watauga (7) Westover Hills (3)

* May include data from outside Tarrant County

Table 1. MLE⁽¹⁾ and VI⁽²⁾ for County Quadrants, Weeks 43 and 44

	County Quadrant	# Gravid traps	Ave F <i>Culex</i> spp	Positive pools	MLE (Lower-Upper Limit)	VI
Week 43	Northeast	54	18.1	0.0	0.00 (0.00-2.56)	0.000
	Northwest	28	47.9	1.0	0.66 (0.04-3.19)	0.060
	Southeast	33	43.2	1.0	1.18 (0.07-5.79)	0.067
	Southwest	22	37.1	2.0	2.67 (0.49-8.79)	0.148
Week 44	Northeast	37	10.8	1.0	3.15 (0.18-16.00)	0.030
	Northwest	22	20.6	0.0	0.00 (0.00-8.40)	0.000
	Southeast	21	13.7	2.0	7.56 (1.47-27.28)	0.094
	Southwest	14	17.8	1.0	4.48 (0.26-23.14)	0.076

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 41-44

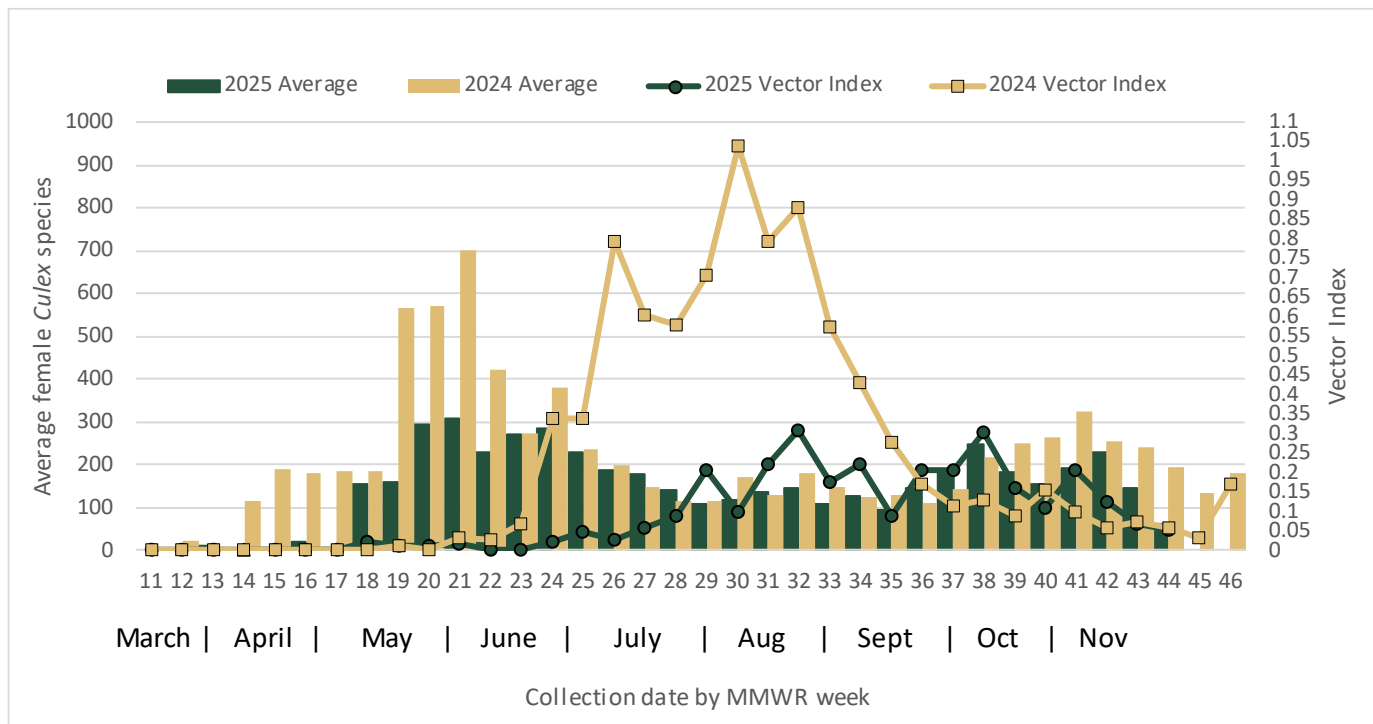
Week	Oct 5- Oct 11	Oct 12- Oct 18	Oct 19- Oct 25	Oct 26- Nov 1	YTD
MMWR Week	41	42	43	44	
Total number of gravid traps set in Tarrant Region	166	153	156	105	4438
number of <i>Culex spp</i> per gravid trap	46.1	56.0	34.4	18.4	45.2
of mosquito pools tested ¹ (NTRL; non-NTRL)	136;29	128;25	121;22	86;7	3524;741
of positive mosquito pools (NTRL; non-NTRL) ¹	18;4	8;3	7;1	6;0	293;37
infection rate per 1,000 <i>Culex spp</i> ²	5.06	2.78	0.89	3.41	
vector index ³	0.203	0.125	0.069	0.054	
Total BG Sentinel traps set in Tarrant Region	26	23	28	21	626
Average number of female <i>Aedes aegypti</i> and <i>Aedes albopictus</i> per BG trap	10.7	4.5	2.8	2.0	7.5

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.

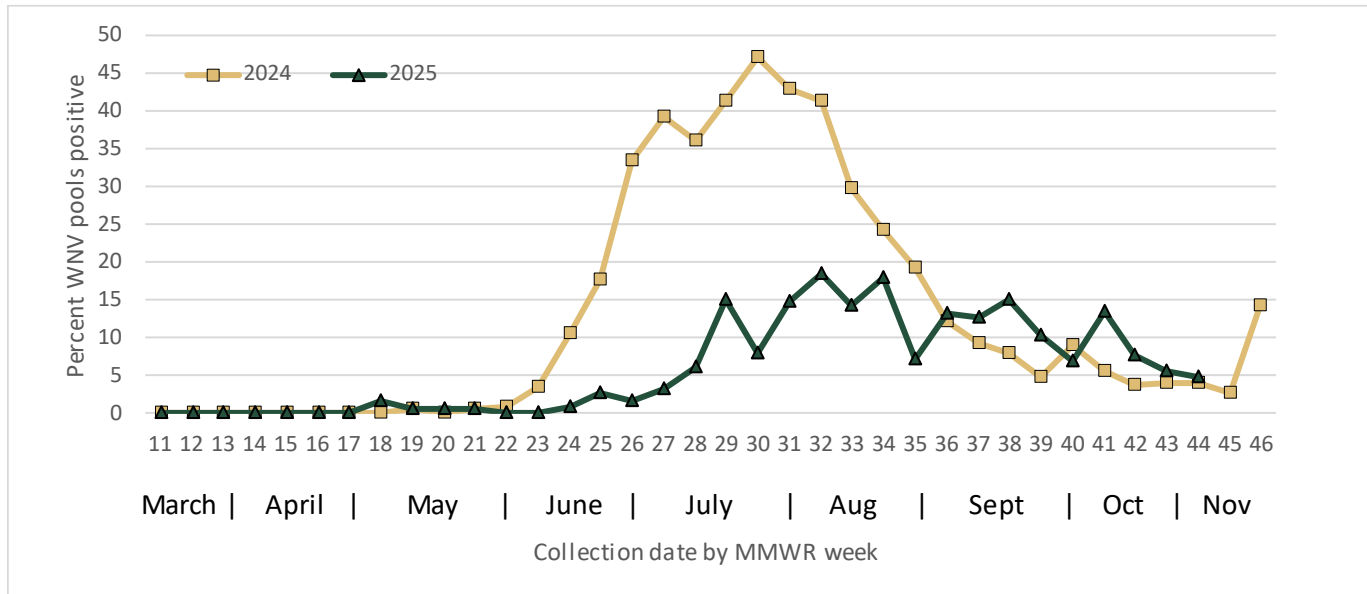
³ Vector Index is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV
Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to change due to 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 November 4 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	39	1 WNF;	2 WNND		0	0	0	2	0	0	0	0
Dallas	282	2 WNF;	6 WNND		0	0	0	4	0	0	0	0
Denton	61	1 WNF;	1 WNND		0	0	0	3	0	0	0	0
Johnson	29	0 WNF;	0 WNND		0	0	0	0	1	0	0	0
Non-Tarrant North Texas	411	4	9		0	0	0	9	1	0	0	0
All Texas Counties	1243	24	68		0	2	0	47	22	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](#)