Tarrant County Public Health

Weekly Arbovirus Surveillance Report

MMWR Week October 25 - 31, 2026



Week 42 Summary

62 mosquito pools* have been tested in NTRL from week 43

- Year-to-date NTRL has tested a total of 3462 mosquito pools

0 mosquito pools tested positive for WNV this week:

Average number of mosquitoes/trap include:

- Culex spp: 81.3
- Aedes aegypti and Aedes albopictus: 4.7

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 177 positives in 2026

Arlington (18) Bedford (6) Benbrook (2) Burleson *(5) Colleyville (15) DFW Airport*(1) Euless (15) Fort Worth* (43) Grand Prairie* (13) Grapevine (8) Haslet (2) Hurst (1) Keller (13)North Richland Hills (3) Pantego (8) Southlake (5) Unincorporated (18) Westover Hills (1)

* May include data from outside Tarrant County

Table 1. MLE[1] and VI[2] for County Quadrants, Weeks 42 and 43

	County Quadrant	# Gravid Traps	Ave F Culex spp	Positive Pools	MLE (Lower-Upper Limit)	VI
Week 42	Northeast	47	36.5	1	0.89 (0.05-4.35)	0.03
	Northwest	22	82.1	0	0.00 (0.00-5.11)	0.00
	Southeast	29	87.2	0	0.00 (0.00-6.19)	0.00
	Southwest	21	59.7	0	0.00 (0.00-6.38)	0.00
Week 43	Northeast	25	60.4	0	0.00 (0.00-4.83)	0.00
	Northwest	11	41.3	0	0.00 (0.00-8.39)	0.00
	Southeast	7	25.6	0	0.00 (0.00-16.07)	0.00
	Southwest	13	43.1	0	0.00 (0.00-8.42)	0.00

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 40-43

Week	Oct. 4 - Oct. 10	Oct. 11 - Oct. 17	Oct. 18 - Oct. 24	Oct. 25 - Oct. 31	YTD
MMWR Week	40	41	42	43	
Total Number of gravid traps set in Tarrant Region	156	155	133	67	4160
Average number of Culex spp per gravid trap	31.4	36.3	63.3	81.3	45.5
Number of mosquito pools tested[1] (NTRL; non-NTRL)	131;21	130;17	120;0	62;0	3462;545
Number of positive mosquito pools (NTRL; non-NTRL)[1]	2;0	3;0	2;0	0;0	164;13
WNV infection rate per 1,000 Culex spp[2]	0.67	1.08	0.35	0.00	
Weekly vector index3	0.020	0.038	0.021	0.000	
Total BG Sentinel traps set in Tarrant Region	27	25	26	6	674
Average number of female Aedes aegytpi and Aedes albopictus per BG trap	5.6	6.1	9.8	4.7	4.1

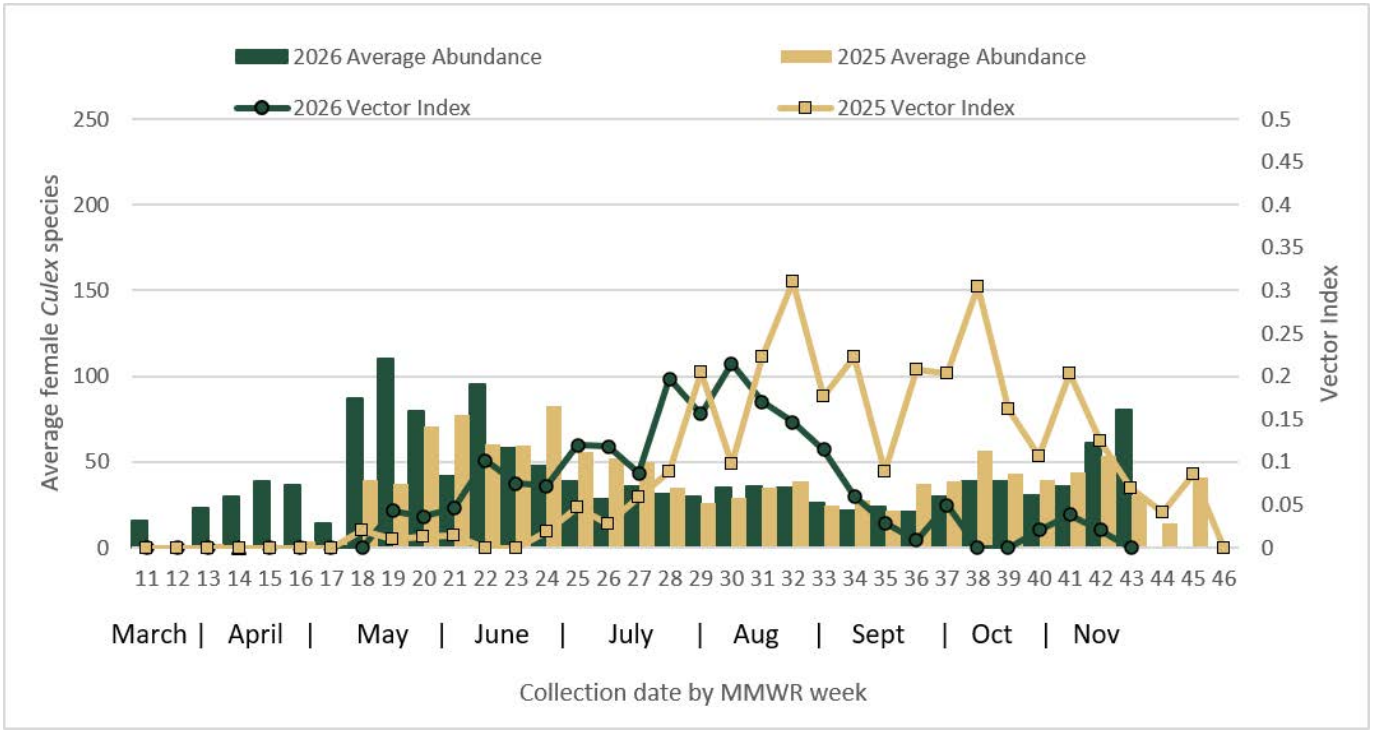
1 Based on mosquito collection date; NTRL = North Texas Regional Laboratory

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

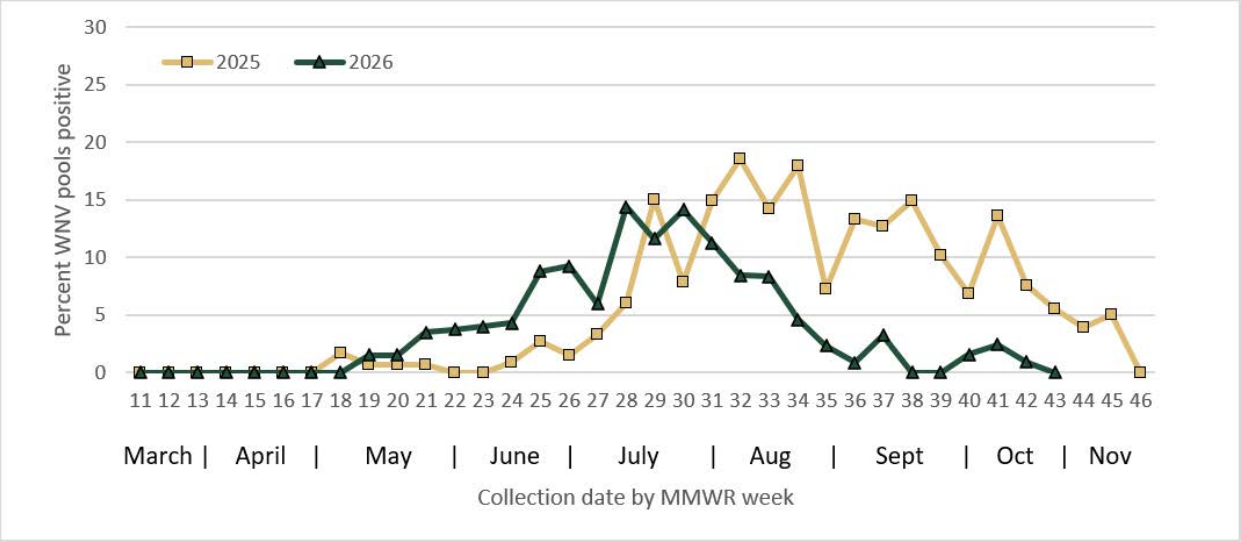
Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to change due to on-going case investigations, mosquito collection, and testing. Data source: Tarrant County Public Health

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 November 3, 2026 with additional positives from the Tarrant County region updated through the date of publication.

	WNV						CHIKV		DENV		SLEV		Zika		EEEV	
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	Positive Mosquito Pools	Human Cases
Collin	27	0	WNF	0	WNND		0	1	0	3	0	0	0	0	0	0
Dallas	189	0	WNF	6	WNND		0	1	0	7	0	0	0	0	0	0
Denton	38	1	WNF	5	WNND		0	0	0	0	0	0	0	0	0	0
Johnson	4	0	WNF	0	WNND		0	0	0	0	0	0	0	0	0	0
Parker	1	0	WNF	0	WNND		0	0	0	0	0	0	0	0	0	0
Tarrant	164	2	WNF	12	WNND		0	0	0	5	0	0	0	0	0	0
North Texas	423	3	WNF	23	WNND		0	2	0	15	0	0	0	0	0	0
All Texas Counties	1438	16		76			0	4	0	33	13	1	0	1	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