Tarrant County Public Health

Weekly Arbovirus Surveillance Report

MMWR Week October 18 - 24, 2026



Week 42 Summary

120 mosquito pools* have been tested in NTRL from week 42
- Year-to-date NTRL has tested a total of 3400 mosquito pools

2 mosquito pools tested positive for WNV this week:
Burleson* (1) Grapevine (1)

Average number of mosquitoes/trap include:
- Culex spp: 63.3
- Aedes aegypti and Aedes albopictus: 9.8

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 41 and 42

	County Quadrant	# Gravid Traps	Ave F Culex spp	Positive Pools	MLE (Lower-Upper Limit)	VI
Week 41	Northeast	52	20.0	1	1.20 (0.07-5.92)	0.02
	Northwest	24	62.3	1	1.36 (0.08-6.67)	0.08
	Southeast	35	33.0	1	1.26 (0.07-6.12)	0.04
	Southwest	21	67.4	0	0.00 (0.00-7.21)	0.00
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

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 39 - 42

Week	Sept. 27 - Oct. 3	Oct. 4 - Oct. 10	Oct. 11 - Oct. 17	Oct. 18 - Oct. 24	YTD
MMWR Week	39	40	41	42	
Total Number of gravid traps set in Tarrant Region	134	156	155	133	4093
Average number of Culex spp per gravid trap	40.0	31.4	36.3	63.3	44.9
Number of mosquito pools tested[1] (NTRL; non-NTRL)	108;21	131;21	130;17	120;0	3400;545
Number of positive mosquito pools (NTRL; non-NTRL)[1]	0;0	2;0	3;0	2;0	164;13
WNV infection rate per 1,000 Culex spp[2]	0.00	0.67	1.08	0.35	
Weekly vector index3	0.000	0.020	0.038	0.021	
Total BG Sentinel traps set in Tarrant Region	13	27	25	26	668
Average number of female Aedes aegytpi and Aedes albopictus per BG trap	1.9	5.6	6.1	9.8	4.1

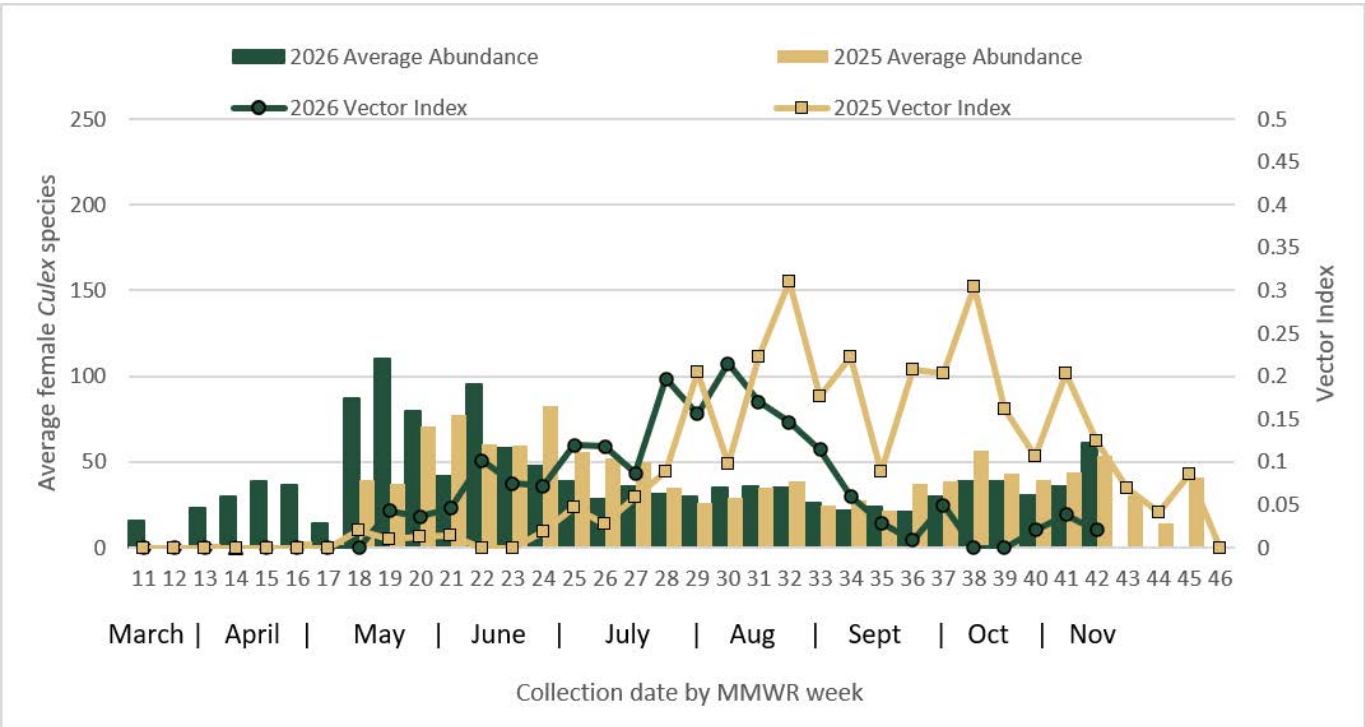
1 Based on mosquito collection date; NTRL = North Texas Regional Laboratory

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

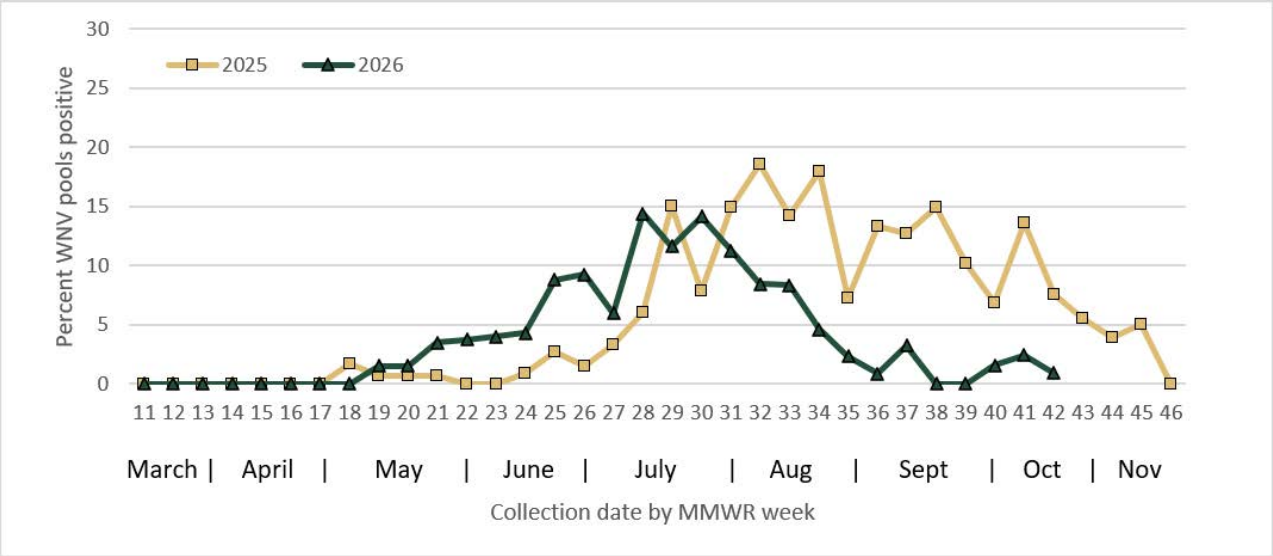
Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to change due to on-going case investigations, mosquito collection, and testing. Data source: Tarrant County Public Health

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 October 27, 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	26	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	422	3	WNF	23	WNND		0	2	0	15	0	0	0	0	0	0
All Texas Counties	1423	16		73			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