

Tarrant County Public Health

Weekly Arbovirus Surveillance Report: MMWR Week Sep 28-Oct 4, 2025



Week 40 Summary

- 141 mosquito pools* have been tested in NTRL from week 40
 - Year-to-date NTRL has tested a total of 3053 mosquito pools
- 13 mosquito pools tested positive for WNV this week:
Arlington (1) Burleson* (2) Euless (1) Fort Worth* (3) Grapevine (2) Grand Prairie* (1) Hurst (1) Unincorporated (2)
- Average number of mosquitoes/trap include:
 - *Culex spp*: 44.8
 - *Aedes aegypti* and 11.0
 - *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 283 positives in 2025

Arlington (32) Bedford (4) Benbrook (1) Burleson *(25) Colleyville (13) Crowley (7) Dalworthington Gardens (1) DFW Airport*(2) Euless (14) Fort Worth* (93) Grand Prairie* (9) Grapevine (5) Haltom City (5) Haslet (5) Hurst (4) Keller (8) Lake Worth (5) Mansfield* (4) North Richland Hills (6) Pantego (6) River Oaks (4) Unincorporated (20) Watauga (7) Westover Hills (3)

* May include data from outside Tarrant County

Table 1. MLE⁽¹⁾ and VI⁽²⁾ for County Quadrants, Weeks 39 and 40

	County Quadrant	# Gravid traps	Ave F <i>Culex</i> spp	Positive pools	MLE (Lower-Upper Limit)	VI
Week 39	Northeast	43	34.3	0.0	0.00 (0.00-2.56)	0.000
	Northwest	28	61.6	1.0	0.66 (0.04-3.19)	0.060
	Southeast	33	48.2	1.0	1.18 (0.07-5.79)	0.067
	Southwest	24	36.7	2.0	2.67 (0.49-8.79)	0.148
Week 40	Northeast	58	28.3	5.0	4.13 (1.56-9.12)	0.113
	Northwest	29	63.0	2.0	2.35 (0.42-7.79)	0.138
	Southeast	31	34.5	3.0	3.99 (1.06-10.90)	0.132
	Southwest	19	33.6	0.0	0.00 (0.00-7.39)	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 37-40

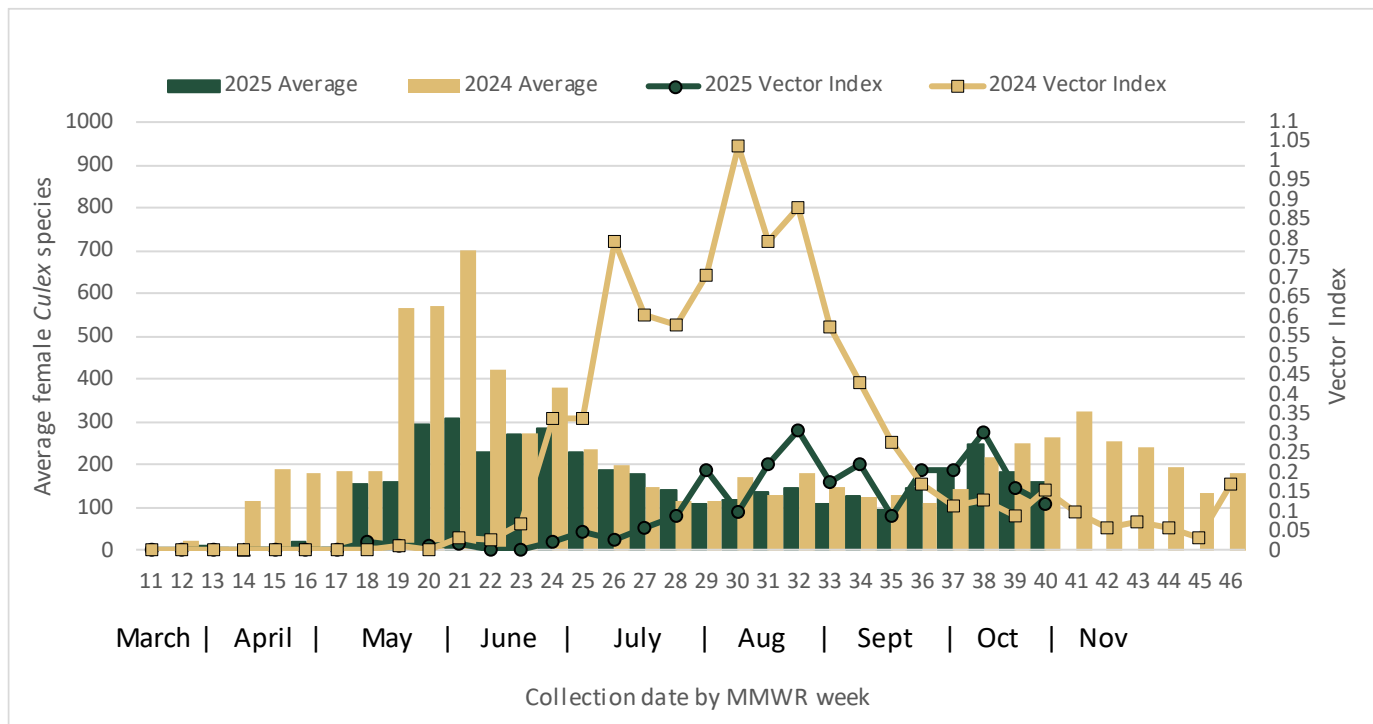
Week	Sep 7- Sep 13	Sep 14- Sep 20	Sep 21- Sep 27	Sep 28- Oct 4	YTD
MMWR Week	37	38	39	40	
Total number of gravid traps set in Tarrant Region	174	178	148	155	3845
Average number of <i>Culex spp</i> per gravid trap	40.1	59.2	44.7	44.8	45.9
Number of mosquito pools tested ¹ (NTRL; non-NTRL)	134;30	148;26	124;21	141;8	3053;644
Number of positive mosquito pools (NTRL; non-NTRL) ¹	16;2	24;4	12;3	12;1	254;29
WNV infection rate per 1,000 <i>Culex spp</i> ²	5.39	5.39	0.89	3.09	
Weekly vector index ³	0.203	0.305	0.161	0.120	
Total BG Sentinel traps set in Tarrant Region	25	22	25	26	528
Average number of female <i>Aedes aegypti</i> and <i>Aedes albopictus</i> per BG trap	9.1	14.2	11.3	11.0	7.9

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.

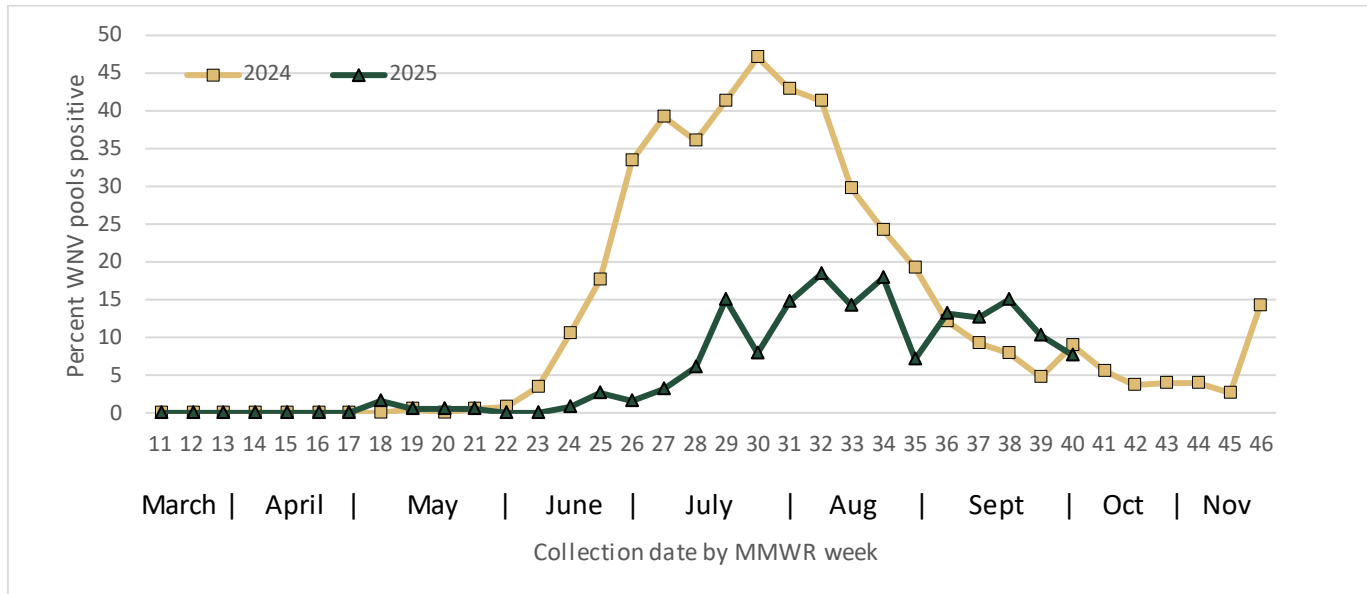
³ Vector Index is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV
Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to change due to 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 October 7, 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	19	1 WNF;	1 WNND		0	0	0	0	0	0	0	0
Dallas	262	1 WNF;	5 WNND		0	0	0	4	0	0	0	0
Denton	48	1 WNF;	1 WNND		0	0	0	2	0	0	0	0
Johnson	25	0 WNF;	0 WNND		0	0	0	0	1	0	0	0
Non-Tarrant North Texas	354	3	7		0	0	0	6	1	0	0	0
All Texas Counties	1038	16	48		0	2	0	41	17	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](#)