

Tarrant County Public Health

Weekly Arbovirus Surveillance Report: MMWR Week Sep 7-Sep 13, 2025



Week 37 Summary

- 134 mosquito pools* have been tested in NTRL from week 37
 - Year-to-date NTRL has tested a total of 2640 mosquito pools
- 16 mosquito pools tested positive for WNV this week:
Arlington (1) Euless (2) Fort Worth* (8) Grapevine (1) Haltom City (1) Pantego (1) Watauga (1) Westover Hills (1)
- Average number of mosquitoes/trap include:
 - *Culex spp*: 41.1
 - *Aedes aegypti* and 9.2
 - *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 225 positives in 2025

Arlington (27) Bedford (4) Benbrook (1) Burleson *(18) Colleyville (10) Crowley (5) Dalworthington Gardens (1) DFW Airport*(2) Euless (12) Fort Worth* (79) Grand Prairie* (5) Grapevine (3) Haltom City (5) Haslet (3) Hurst (1) Keller (7) Lake Worth (5) Mansfield* (3) North Richland Hills (5) Pantego (5) River Oaks (4) Unincorporated (11) Watauga (6) Westover Hills (3)

* May include data from outside Tarrant County

Table 1. MLE⁽¹⁾ and VI⁽²⁾ for County Quadrants, Weeks 36 and 37

	County Quadrant	# Gravid traps	Ave F <i>Culex</i> spp	Positive pools	MLE (Lower-Upper Limit)	VI
Week 36	Northeast	60	31.0	0.0	0.00 (0.00-2.56)	0.000
	Northwest	27	42.6	1.0	0.66 (0.04-3.19)	0.060
	Southeast	37	29.6	1.0	1.18 (0.07-5.79)	0.067
	Southwest	18	41.5	2.0	2.67 (0.49-8.79)	0.148
Week 37	Northeast	56	21.2	12.0	12.64 (7.09-21.23)	0.264
	Northwest	26	108.7	2.0	2.19 (0.40-7.20)	0.225
	Southeast	35	36.2	1.0	1.16 (0.07-5.67)	0.042
	Southwest	21	25.9	1.0	2.34 (0.14-11.38)	0.059

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 34-37

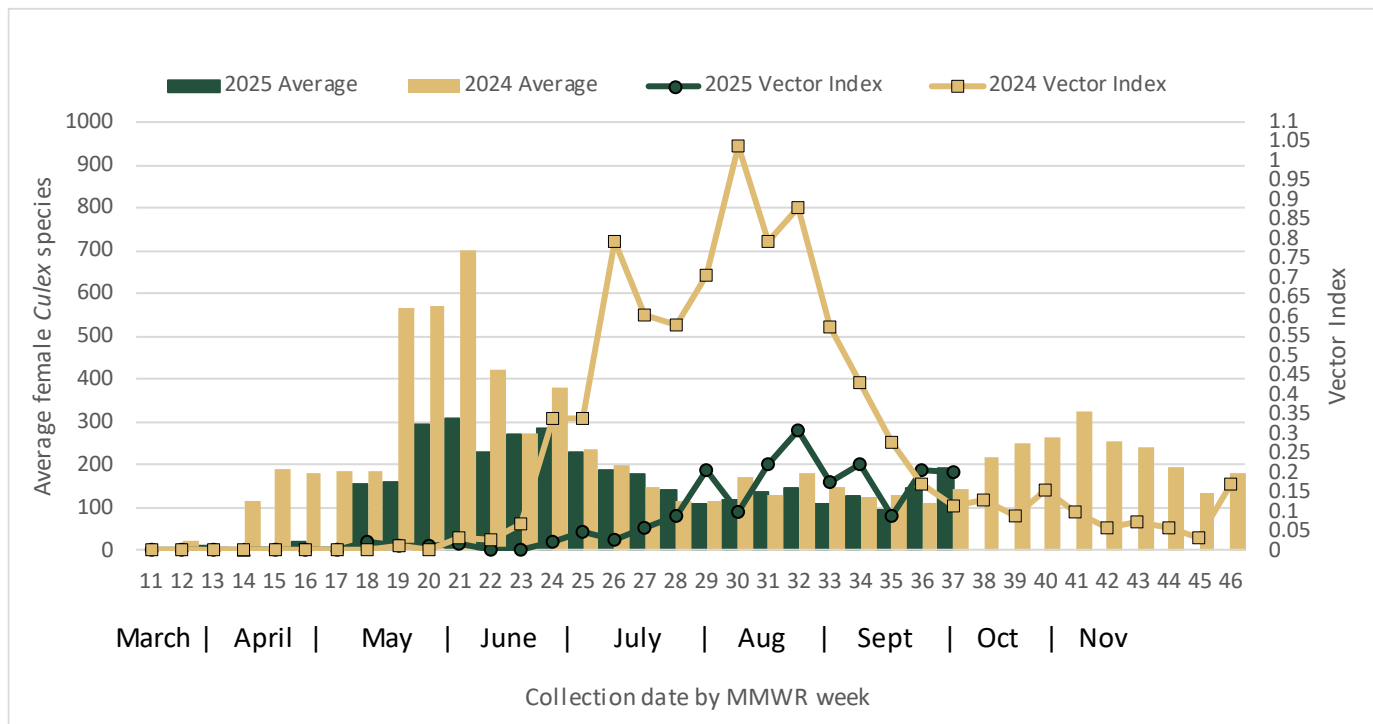
Week	Aug 17- Aug 23	Aug 24- Aug 30	Aug 31- Sep 6	Sep 7- Sep 13	YTD
MMWR Week	34	35	36	37	
Total number of gravid traps set in Tarrant Region	166	170	163	161	3351
Average number of <i>Culex spp</i> per gravid trap	28.3	23.3	38.7	41.1	45.4
Number of mosquito pools tested ¹ (NTRL; non-NTRL)	128;30	138;22	132;24	134;18	2640;577
Number of positive mosquito pools (NTRL; non-NTRL) ¹	25;4	10;1	17;5	16;0	206;19
WNV infection rate per 1,000 <i>Culex spp</i> ²	8.20	4.05	0.89	5.16	
Weekly vector index ³	0.223	0.088	0.207	0.199	
Total BG Sentinel traps set in Tarrant Region	26	21	25	24	454
Average number of female <i>Aedes aegypti</i> and <i>Aedes albopictus</i> per BG trap	5.3	6.8	9.3	9.2	7.2

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.

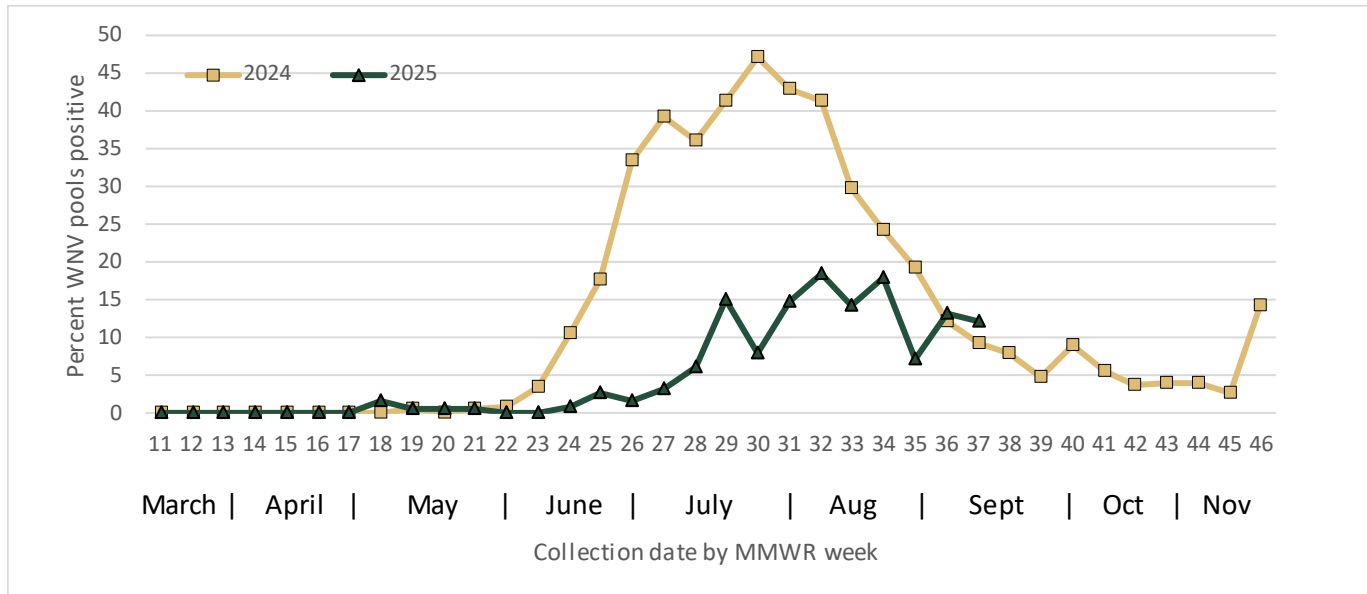
³ Vector Index is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV
Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to change due to 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 September 16, 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	14	1 WNF;	1 WNND		0	0	0	0	0	0	0	0
Dallas	233	1 WNF;	4 WNND		0	0	0	3	0	0	0	0
Denton	38	0 WNF;	1 WNND		0	0	0	1	0	0	0	0
Johnson	20	0 WNF;	0 WNND		0	0	0	0	0	0	0	0
Non-Tarrant North Texas	305	2	6		0	0	0	4	0	0	0	0
All Texas Counties	848	13	25		0	2	0	34	8	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](#)