

Tarrant County Public Health

Weekly Arbovirus Surveillance Report: MMWR Week Jul 27-Aug 2, 2025



Week 31 Summary

- 136 mosquito pools* have been tested in NTRL from week 31
 - Year-to-date NTRL has tested a total of 1816 mosquito pools
- 21 mosquito pools tested positive for WNV this week:
Arlington (5) Fort Worth* (4) Haltom City (1) Haslet (1) Hurst (1) Lakeside (1) Mansfield (1) Pantego (1) Unincorporated (3) Watauga (2) Westover Hills (1)
- Average number of mosquitoes/trap include:
 - *Culex spp*: 36.5
 - *Aedes aegypti* and 6.2
 - *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 85 positives in 2025

Arlington (15) Bedford (3) Burleson *(5) Colleyville (1) Crowley (1) Euless (6) Fort Worth* (27) Grand Prairie* (1) Grapevine (1) Haltom City (3) Haslet (3) Hurst (1) Keller (2) Lake Worth (3) Mansfield* (1) Pantego (2) River Oaks (2) Unincorporated (5) Watauga (2) Westover Hills (1)

* May include data from outside Tarrant County

Table 1. MLE⁽¹⁾ and VI⁽²⁾ for County Quadrants, Weeks 30 and 31

	County Quadrant	# Gravid traps	Ave F <i>Culex</i> spp	Positive pools	MLE (Lower-Upper Limit)	VI
Week 30	Northeast	56	33.7	0.0	0.00 (0.00-2.56)	0.000
	Northwest	28	29.5	1.0	0.66 (0.04-3.19)	0.060
	Southeast	40	30.5	1.0	1.18 (0.07-5.79)	0.067
	Southwest	21	25.6	2.0	2.67 (0.49-8.79)	0.148
Week 31	Northeast	45	24.7	7.0	7.83 (3.52-15.44)	0.193
	Northwest	31	48.1	7.0	8.84 (3.92-17.81)	0.425
	Southeast	34	34.5	5.0	6.21 (2.32-13.97)	0.214
	Southwest	23	29.5	1.0	1.88 (0.11-9.17)	0.055

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 28-31

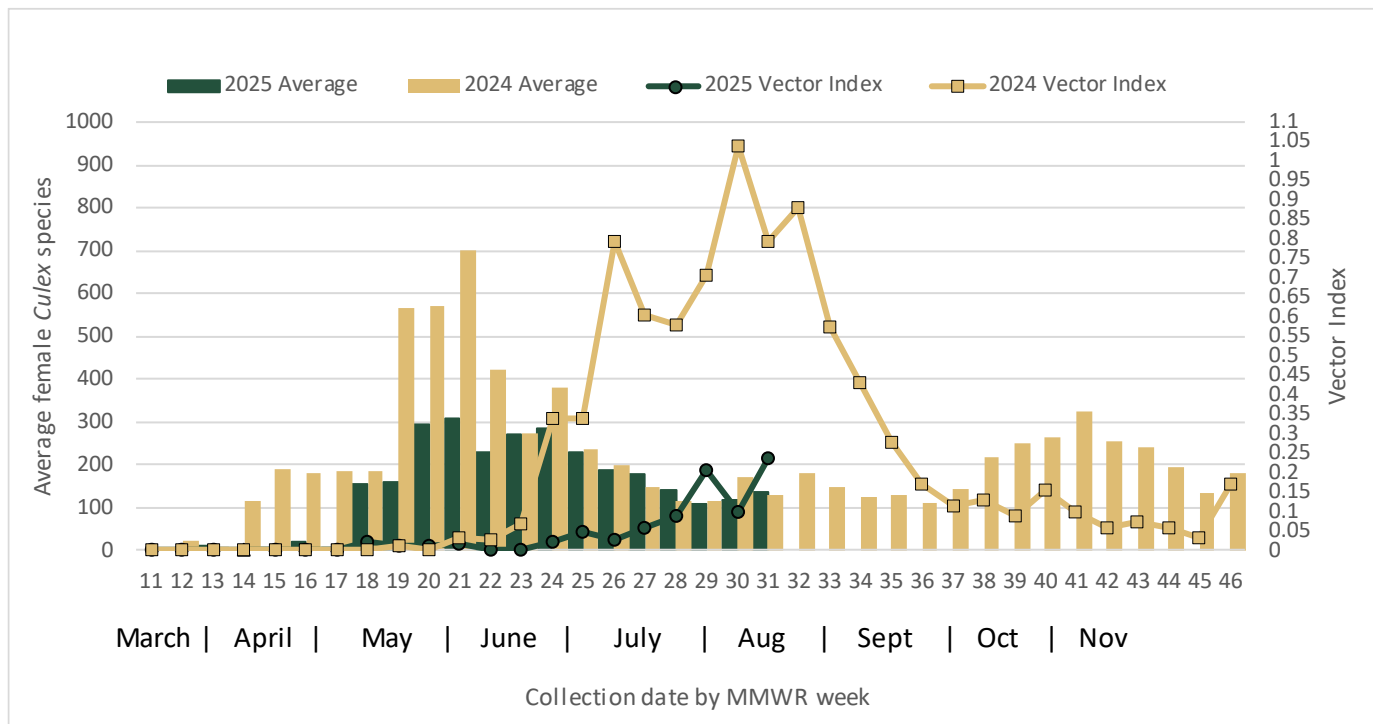
Week	Jul 6- Jul 12	Jul 13- Jul 19	Jul 20- Jul 26	Jul 27- Aug 2	YTD
MMWR Week	28	29	30	31	
Total number of gravid traps set in Tarrant Region	160	179	160	157	2320
Average number of <i>Culex spp</i> per gravid trap	36.0	26.7	30.0	36.5	51.2
Number of mosquito pools tested ¹ (NTRL; non-NTRL)	129;27	140;28	124;27	136;14	1816;415
Number of positive mosquito pools (NTRL; non-NTRL) ¹	8;1	21;1	10;1	21;0	81;4
WNV infection rate per 1,000 <i>Culex spp</i> ²	2.52	7.78	0.89	6.74	
Weekly vector index ³	0.089	0.204	0.098	0.236	
Total BG Sentinel traps set in Tarrant Region	26	21	28	19	308
Average number of female <i>Aedes aegypti</i> and <i>Aedes albopictus</i> per BG trap	7.3	9.0	8.4	6.2	7.4

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.

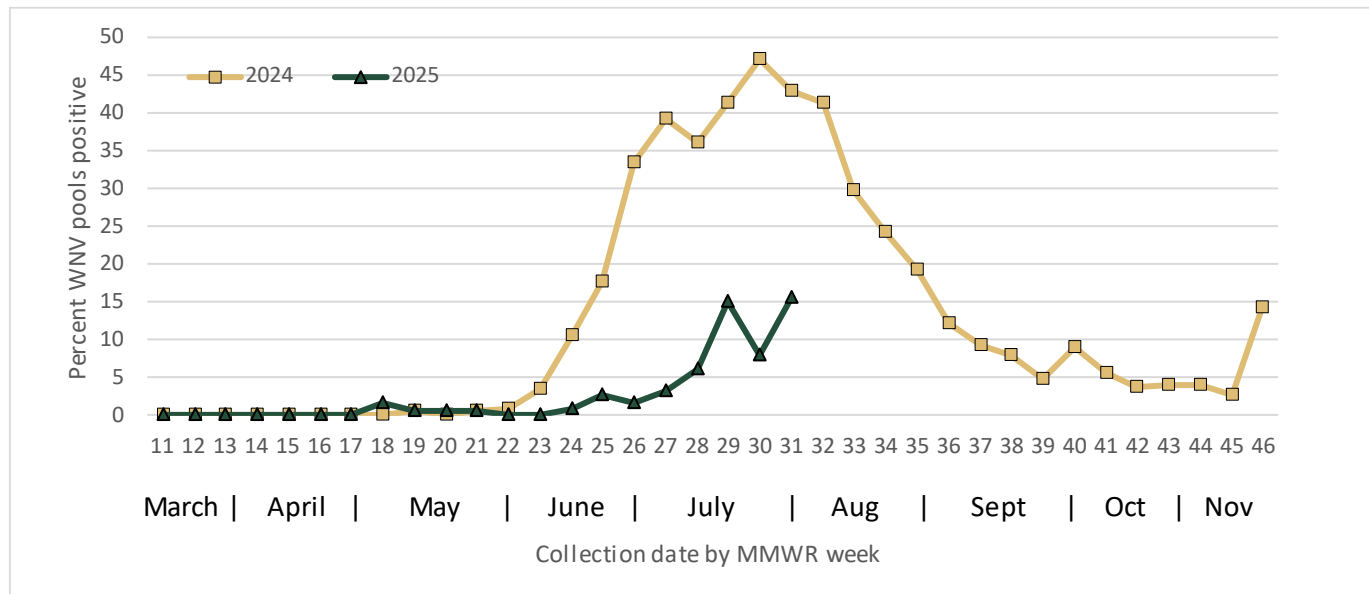
³ Vector Index is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV
Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to change due to 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 August 5, 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	3	1 WNF;	1 WNND		0	0	0	0	0	0	0	0
Dallas	118	0 WNF;	0 WNND		0	0	0	2	0	0	0	0
Denton	16	0 WNF;	0 WNND		0	0	0	0	0	0	0	0
Johnson	5	0 WNF;	0 WNND		0	0	0	0	0	0	0	0
Non-Tarrant North Texas	142	1	1		0	0	0	2	0	0	0	0
All Texas Counties	336	5	5		0	1	0	24	0	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](#)