

Tarrant County Public Health

Weekly Arbovirus Surveillance Report: MMWR Week Aug 17-Aug 23, 2025



Week 34 Summary

- 128 mosquito pools* have been tested in NTRL from week 34
 - Year-to-date NTRL has tested a total of 2236 mosquito pools
- 27 mosquito pools tested positive for WNV this week:
Arlington (2) Burleson* (1) Colleyville (1) Crowley (1) Euless (1) Fort Worth* (14) Grand Prairie* (2) Keller (2) North Richland Hills (1) Pantego (1) Unincorporated (1)
- Average number of mosquitoes/trap include:
 - *Culex spp*: 28.2
 - *Aedes aegypti* and 5.4
 - *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 174 positives in 2025

Arlington (24) Bedford (3) Benbrook (1) Burleson *(16) Colleyville (7) Crowley (3) Dalworthington Gardens (1) DFW Airport*(1) Euless (9) Fort Worth* (56) Grand Prairie* (4) Grapevine (1) Haltom City (4) Haslet (3) Hurst (1) Keller (5) Lake Worth (5) Mansfield* (2) North Richland Hills (5) Pantego (4) River Oaks (3) Unincorporated (11) Watauga (4) Westover Hills (1)

* May include data from outside Tarrant County

Table 1. MLE⁽¹⁾ and VI⁽²⁾ for County Quadrants, Weeks 33 and 34

	County Quadrant	# Gravid traps	Ave F <i>Culex</i> spp	Positive pools	MLE (Lower-Upper Limit)	VI
Week 33	Northeast	61	16.9	0.0	0.00 (0.00-2.56)	0.000
	Northwest	32	32.8	1.0	0.66 (0.04-3.19)	0.060
	Southeast	36	22.5	1.0	1.18 (0.07-5.79)	0.067
	Southwest	24	33.4	2.0	2.67 (0.49-8.79)	0.148
Week 34	Northeast	48	23.5	12.0	15.14 (8.36-25.83)	0.355
	Northwest	27	37.4	4.0	5.47 (1.81-13.21)	0.204
	Southeast	32	22.4	2.0	3.05 (0.55-10.01)	0.361
	Southwest	21	44.4	5.0	8.14 (3.16-17.94)	0.204

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 31-34

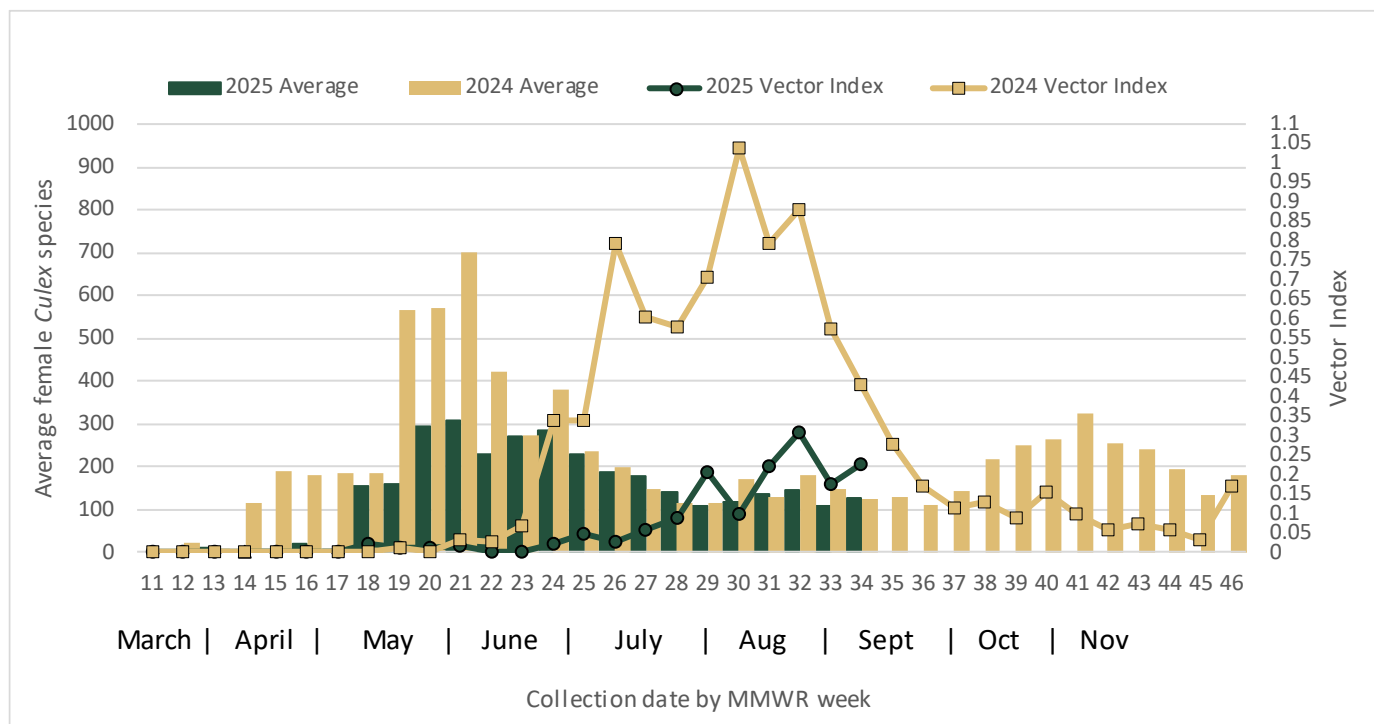
Week	Jul 27- Aug 2	Aug 3- Aug 9	Aug 10- Aug 16	Aug 17- Aug 23	YTD
MMWR Week	31	32	33	34	
Total number of gravid traps set in Tarrant Region	169	178	181	153	2844
Average number of <i>Culex spp</i> per gravid trap	36.2	39.2	25.1	28.2	47.4
Number of mosquito pools tested ¹ (NTRL; non-NTRL)	136;26	148;26	144;30	128;17	2236;500
Number of positive mosquito pools (NTRL; non-NTRL) ¹	21;1	30;2	27;2	25;2	163;11
WNV infection rate per 1,000 <i>Culex spp</i> ²	6.39	8.08	0.89	8.39	
Weekly vector index ³	0.222	0.310	0.176	0.228	
Total BG Sentinel traps set in Tarrant Region	19	28	22	25	383
Average number of female <i>Aedes aegypti</i> and <i>Aedes albopictus</i> per BG trap	6.2	4.8	6.3	5.4	7.0

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.

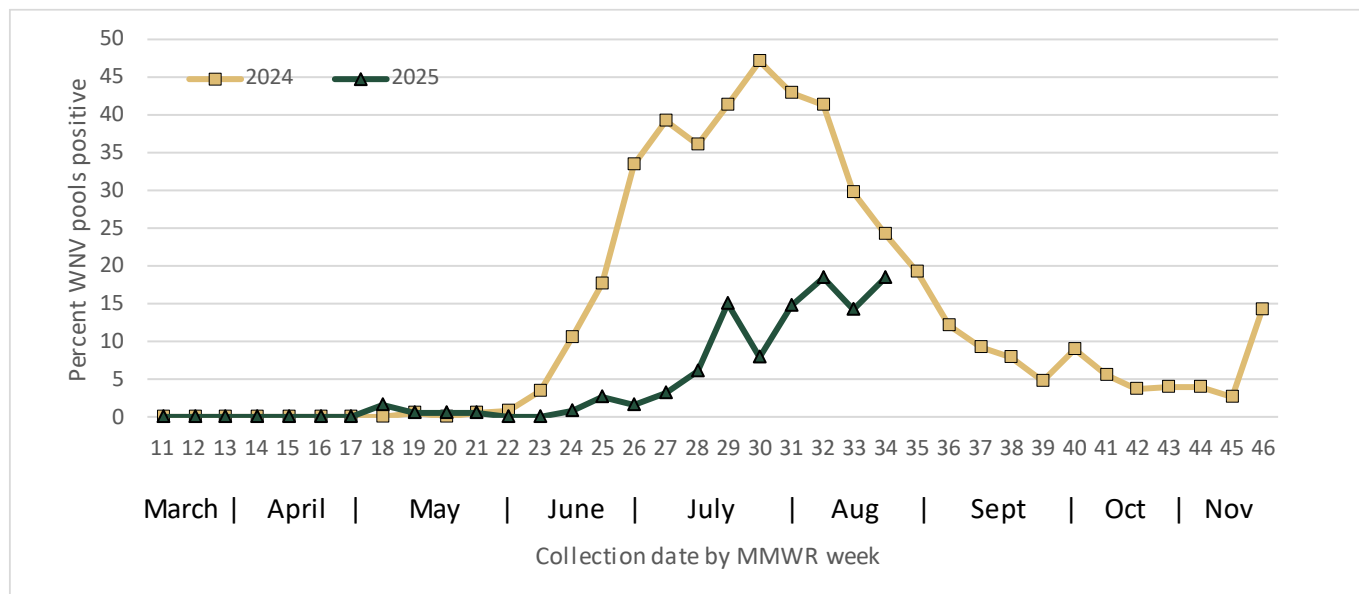
³ Vector Index is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV
Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to change due to 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 26, 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	7	1 WNF;	1 WNND		0	0	0	0	0	0	0	0
Dallas	197	1 WNF;	1 WNND		0	0	0	3	0	0	0	0
Denton	29	0 WNF;	0 WNND		0	0	0	0	0	0	0	0
Johnson	17	0 WNF;	0 WNND		0	0	0	0	0	0	0	0
Non-Tarrant North Texas	250	2	2		0	0	0	3	0	0	0	0
All Texas Counties	652	8	10		0	2	0	27	2	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](#)