

Tarrant County Public Health

Weekly Arbovirus Surveillance Report: MMWR Week Jun 29-Jul 5, 2025



Week 27 Summary

- 148 mosquito pools* have been tested in NTRL from week 27
 - Year-to-date NTRL has tested a total of 1287 mosquito pools
- 8 mosquito pools tested positive for WNV this week:
Burleson* (2) Crowley (1) Fort Worth* (4) Haltom City (1)
- Average number of mosquitoes/trap include:
 - *Culex spp*: 51.7
 - *Aedes aegypti* and 5.3
 - *Aedes albopictus*:

NTRL– North Texas Regional Lab

WNV= West Nile virus; CHIKV= chikungunya virus; DENV= dengue 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 22 positives in 2025

Arlington (1) Burleson *(4) Crowley (1) Euless (1) Fort Worth* (9) Grand Prairie* (1)
Grapevine (1) Haltom City (1) Lake Worth (1) River Oaks (1) Unincorporated (1)

* May include data from outside Tarrant County

Table 1. MLE⁽¹⁾ and VI⁽²⁾ for County Quadrants, Weeks 26 and 27

	County Quadrant	# Gravid traps	Ave F <i>Culex</i> spp	Positive pools	MLE (Lower-Upper Limit)	VI
Week 26	Northeast	56	52.5	0.0	0.00 (0.00-2.56)	0.000
	Northwest	19	50.1	1.0	0.66 (0.04-3.19)	0.060
	Southeast	36	44.1	1.0	1.18 (0.07-5.79)	0.067
	Southwest	24	38.9	2.0	2.67 (0.49-8.79)	0.148
Week 27	Northeast	61	47.0	2.0	1.26 (0.23-4.12)	0.058
	Northwest	38	51.2	0.0	0.00 (0.00-3.46)	0.000
	Southeast	39	38.4	1.0	0.96 (0.06-4.62)	0.037
	Southwest	23	42.9	2.0	3.57 (0.65-11.84)	0.153

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 24-27

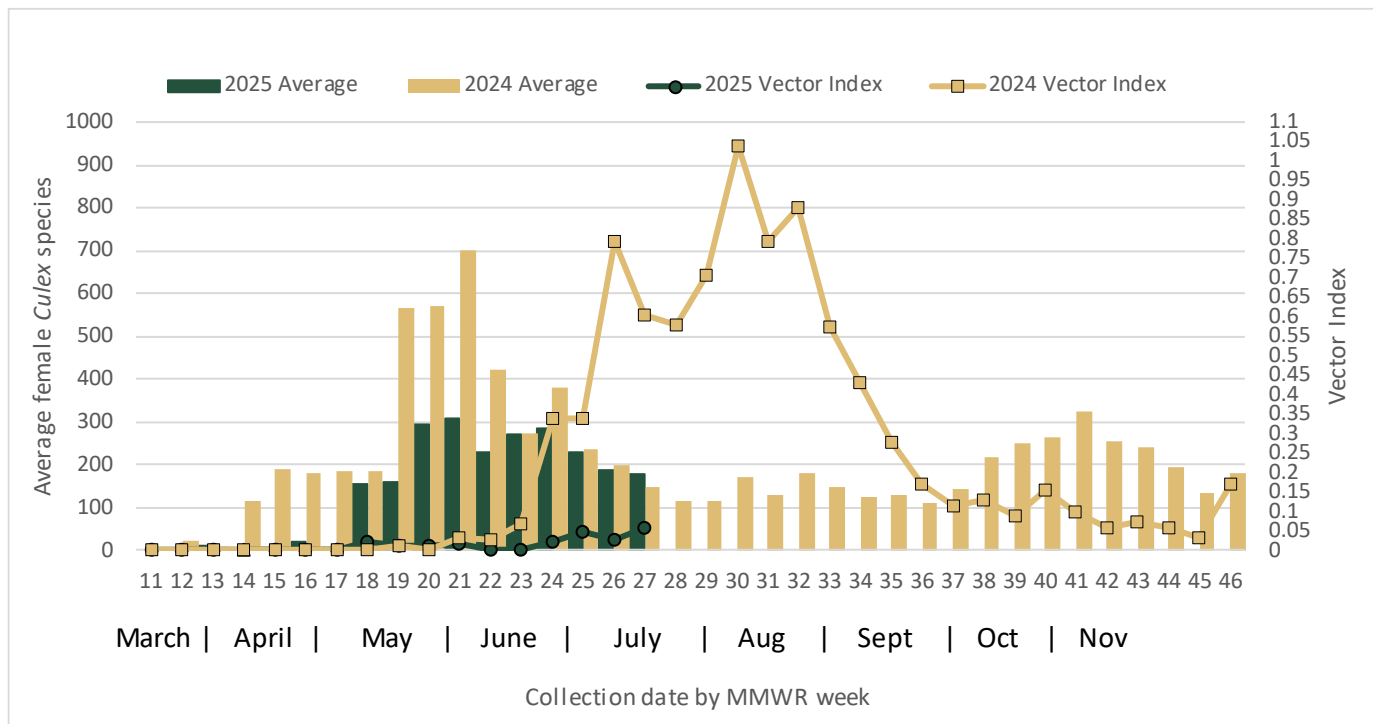
Week	Jun 8- Jun 14	Jun 15- Jun 21	Jun 22- Jun 28	Jun 29- Jul 5	YTD
MMWR Week	24	25	26	27	
Total number of gravid traps set in Tarrant Region	157	181	159	187	1664
Average number of <i>Culex spp</i> per gravid trap	83.7	57.3	53.4	51.7	58.7
Number of mosquito pools tested ¹ (NTRL; non-NTRL)	123;27	147;24	125;32	148;31	1287;319
Number of positive mosquito pools (NTRL; non-NTRL) ¹	1;0	5;1	2;0	8;0	21;1
WNV infection rate per 1,000 <i>Culex spp</i> ²	0.24	0.84	0.89	1.19	
Weekly vector index ³	0.019	0.047	0.052	0.059	
Total BG Sentinel traps set in Tarrant Region	24	22	24	18	214
Average number of female <i>Aedes aegypti</i> and <i>Aedes albopictus</i> per BG trap	12.6	10.9	10.1	5.3	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.

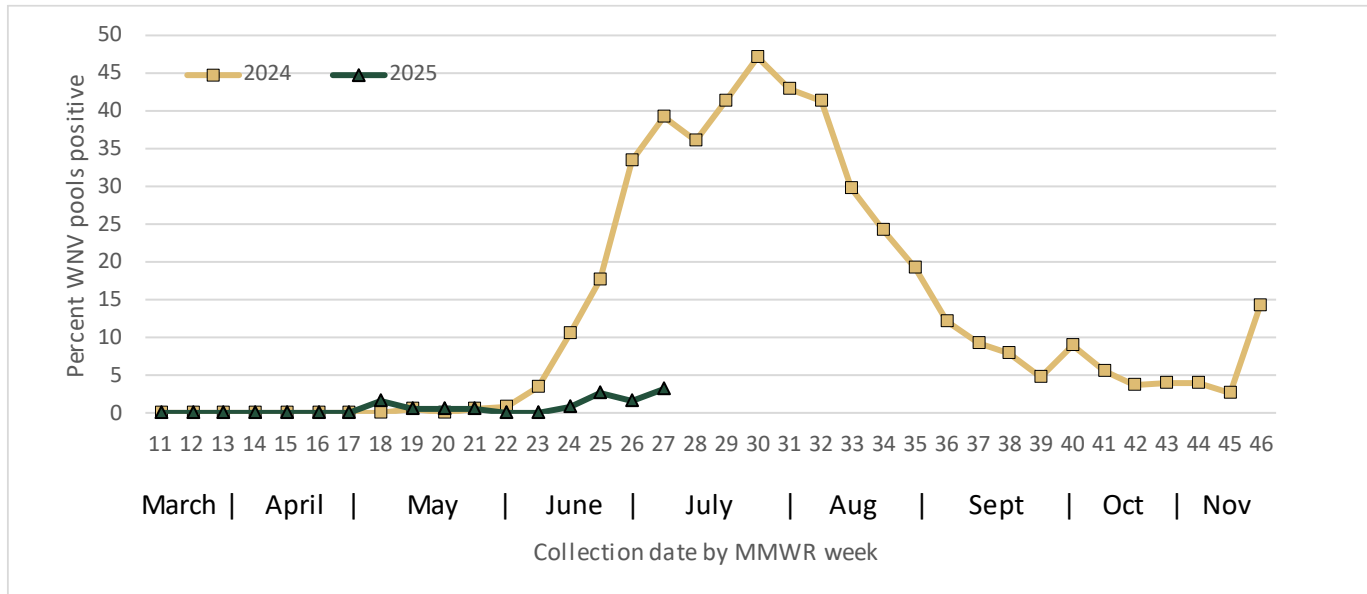
³ Vector Index is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV
Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to change due to 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 July 8, 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	2	0	WNF;	0	WNND	0	0	0	0	0	0	0
Dallas	27	0	WNF;	0	WNND	0	0	1	0	0	0	0
Denton	6	0	WNF;	0	WNND	0	0	0	0	0	0	0
Johnson	4	0	WNF;	0	WNND	0	0	0	0	0	0	0
Non-Tarrant North Texas	39	0		0		0	0	1	0	0	0	0
All Texas Counties	90	1		0		0	1	17	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](#)