Tarrant County Public Health Weekly Arbovirus Surveillance Report:

MMWR Week May 25-May 31, 2025



Week 22 Summary

 130 mosquito pools* have been tested in NTRL from week 22 Year-to-date NTRL has tested a total of 597 mosquito pools 0 mosquito pools tested positive for WNV this week: 								
Average number of mosquitoes/trap include:								
• Culex spp: 64.2								
 Aedes aegypti and Aedes albopictus: 5.6 								
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 4 positives in 2025								
Euless (1) Fort Worth* (1) Lake Worth (1) River Oaks (1)								

* May include data from outside Tarrant County

Table 1. MLE⁽¹⁾ and VI⁽²⁾ for County Quadrants, Weeks 21 and 22

	County Quadrant	# Gravid traps	Ave F Culex spp	Positive pools	MLE (Lower-Upper Limit)	VI
Week 21	Northeast	48	57.2	0.0	0.00 (0.00-3.10)	0.000
	Northwest	32	138.8	1.0	0.78 (0.05-5.33)	0.087
Week 21	Southeast	37	69.1	0.0	0.00 (0.00-4.47)	0.000
	Southwest	22	42.1	0.0	0.00 (0.00-7.87)	0.000
	Northeast	39	30.8	0.0	0.00 (0.00-3.65)	0.000
Week 22	Northwest	31	63.8	0.0	0.00 (0.00-3.26)	0.000
Week 22	Southeast	34	55.9	0.0	0.00 (0.00-3.21)	0.000
	Southwest	19	88.9	0.0	0.00 (0.00-4.57)	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 19-22

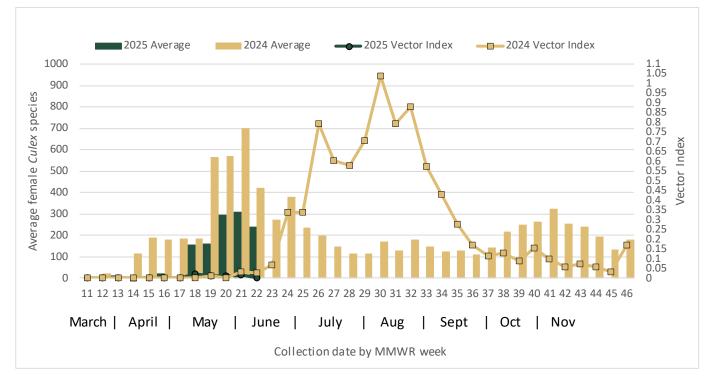
Week		May 11- May 17	May 18- May 24	May 25- May 31	YTD
MMWR Week	19	20	21	22	
Total number of gravid traps set in Tarrant Region	143	170	165	146	779
Average number of <i>Culex spp</i> per gravid trap	39.3	72.5	79.1	64.2	56.6
Number of mosquito pools tested ¹ (NTRL; non-NTRL)	101;58	137;30	132;35	130;14	597;160
Number of positive mosquito pools (NTRL; non-NTRL) ¹	1;0	1;0	1;0	0;0	4;0
WNV infection rate per 1,000 Culex spp ²	0.36	0.21	0.20	0.00	
Weekly vector index ³	0.010	0.013	0.014	0.000	
Total BG Sentinel traps set in Tarrant Region	18	22	19	25	104
Average number of female <i>Aedes aegytpi</i> and <i>Aedes albopictus</i> per BG trap	4.0	3.3	4.6	5.6	4.1

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

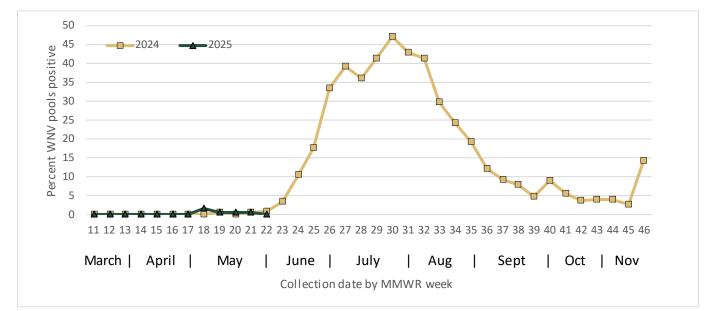


Figure 2. Percentage of Mosquito Pools Positive for WNV by Collection Date, Tarrant County, 2024-2025

Data Source: Tarrant County Public Health

Table 3. North Texas Arbovirus Activity as Reported by Texas DSHS on June 3,

2025

	WNV				CHIKV		DENV		SLEV		Zika		
North Texas Counties	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	0	0	WNF;	0	WNND	0	0	0	0	0	0	0	0
Dallas	1	0	WNF;	0	WNND	0	0	0	1	0	0	0	0
Denton	0	0	WNF;	0	WNND	0	0	0	0	0	0	0	0
Johnson	0	0	WNF;	0	WNND	0	0	0	0	0	0	0	0
Non-Tarrant North Texas	1	0		0		0	0	0	1	0	0	0	0
All Texas Counties	8	0		0		0	0	0	9	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