



Tarrant County Public Health

Weekly Arbovirus Surveillance Report: MMWR Week May 3-May 9, 2026

Week 18 Summary

- 133 mosquito pools* have been tested in NTRL from week 18
 - Year-to-date NTRL has tested a total of 221 mosquito pools
- 0 mosquito pools tested positive for WNV this week:

- Average number of mosquitoes/trap include:
 - *Culex spp*: 87.3
 - *Aedes aegypti* and
 - *Aedes albopictus*: 1.1

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 **0** positives in 2026

* May include data from outside Tarrant County

Table 1. MLE⁽¹⁾ and VI⁽²⁾ for County Quadrants, Weeks 17 and 18

	County Quadrant	# Gravid traps	Ave F <i>Culex</i> spp	Positive pools	MLE (Lower-Upper Limit)	VI
Week 17	Northeast	1	61.0	0	0.00 (0.00-31.05)	0.00
	Northwest	2	21.0	0	0.00 (0.00-0.00)	0.00
	Southeast	7	8.9	0	0.00 (0.00-47.65)	0.00
	Southwest	0	0.0	0	0.00 (0.00-0.00)	0.00
Week 18	Northeast	47	107.3	0	0.00 (0.00-2.32)	0.00
	Northwest	31	86.3	0	0.00 (0.00-2.95)	0.00
	Southeast	30	114.2	0	0.00 (0.00-3.12)	0.00
	Southwest	23	59.3	0	0.00 (0.00-4.19)	0.00

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 15-18

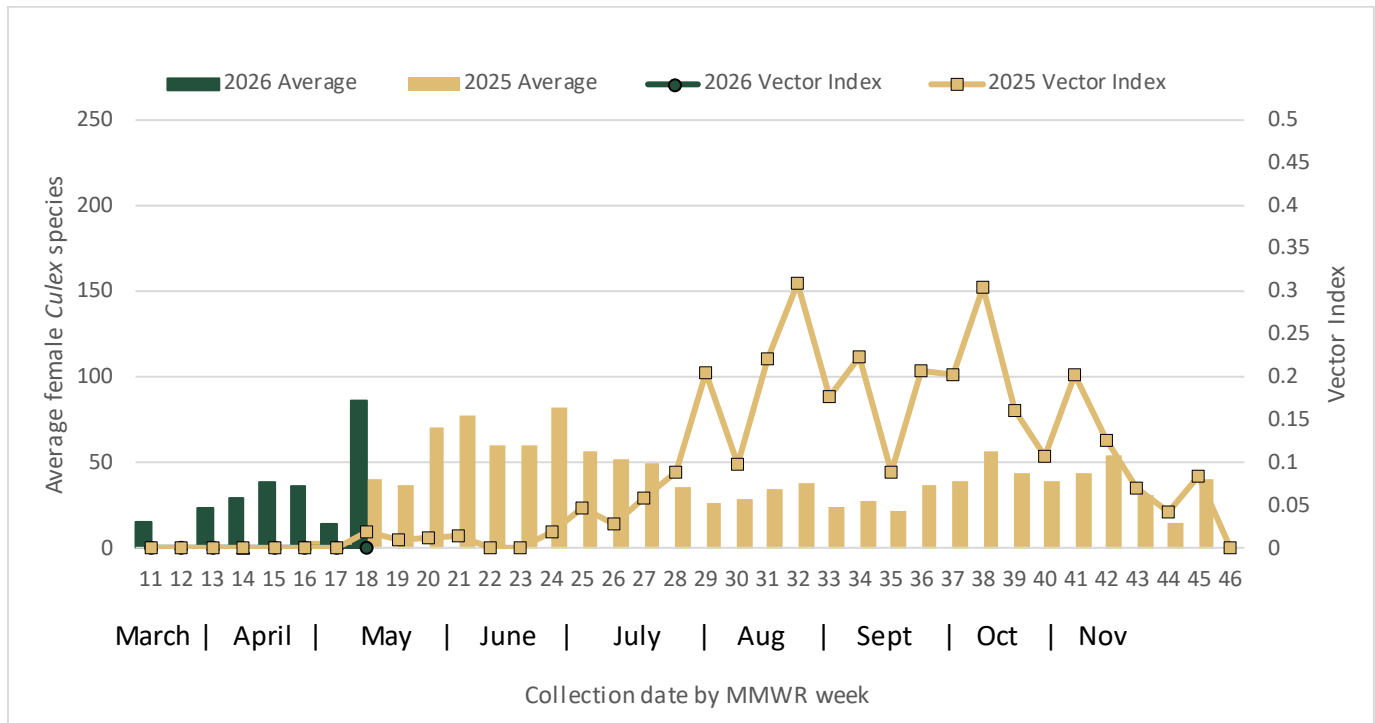
Week	Apr 12- Apr 18	Apr 19- Apr 25	Apr 26- May 2	May 3- May 9	YTD
MMWR Week	15	16	17	18	
Total number of gravid traps set in Tarrant Region	32	23	23	156	339
Average number of <i>Culex spp</i> per gravid trap	40.7	36.8	14.3	87.3	53.6
Number of mosquito pools tested ¹ (NTRL; non-NTRL)	10;22	0;23	0;21	133;18	221;103
Number of positive mosquito pools (NTRL; non-NTRL) ¹	0;0	0;0	0;0	0;0	0;0
WNV infection rate per 1,000 <i>Culex spp</i> ²	0.00	0.00	0.89	0.00	
Weekly vector index ³	0.000	0.000	0.000	0.000	
Total BG Sentinel traps set in Tarrant Region	0	0	0	27	30
Average number of female <i>Aedes aegypti</i> and <i>Aedes albopictus</i> per BG trap	0.0	0.0	0.0	1.1	1.0

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.

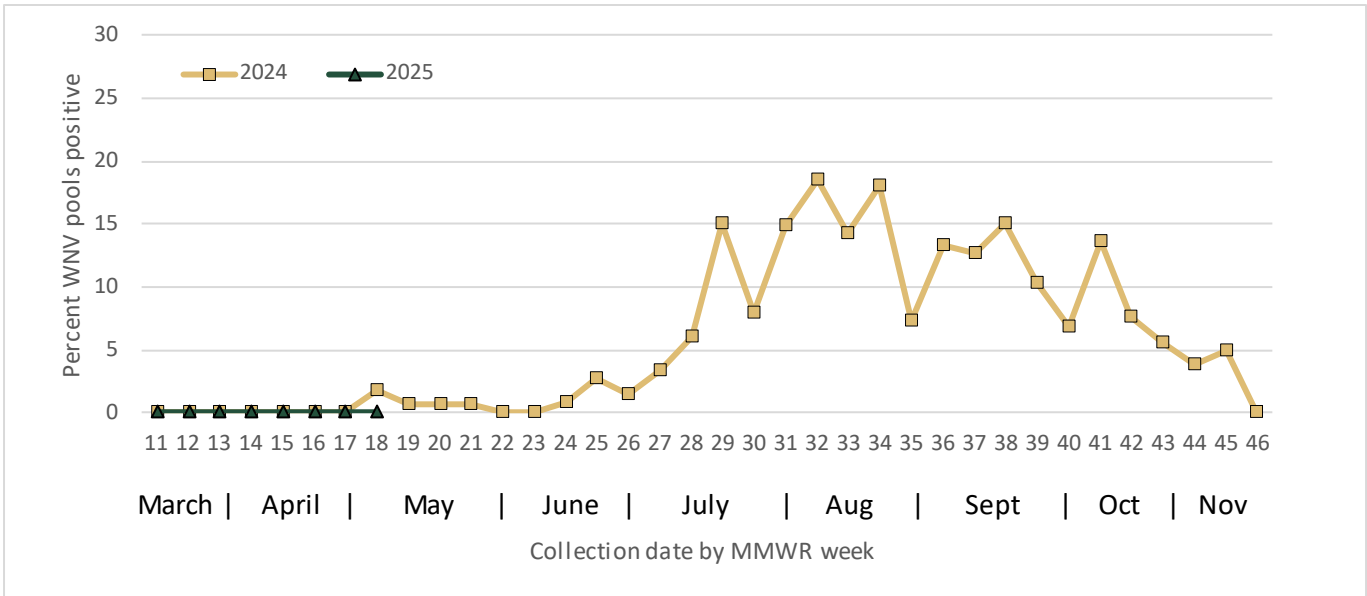
³ Vector Index is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV
 Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to change due to 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, 2025-2026



Data Source: Tarrant County Public Health

Figure 2. Percentage of Mosquito Pools Positive for WNV by Collection Date, Tarrant County, 2025-2026



Data Source: Tarrant County Public Health

Table 3. North Texas Arbovirus Activity as Reported by Texas DSHS on May 12, 2026

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	0	0 WNF;	0 WNND	0	0	0	0	0	0	0	0	
Dallas	4	0 WNF;	0 WNND	0	0	0	0	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	4	0	0	0	0	0	0	0	0	0	0	
All Texas Counties	18	0	0	0	0	0	3	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:

<p>Tarrant County Public Health:</p> <ul style="list-style-type: none"> Vector Control Be Mosquito Free WNV Interactive Mapping Tool Eliminating Mosquito Breeding Sites Mosquitoes Love Water <p>Environmental Protection Agency:</p> <ul style="list-style-type: none"> Insect Repellent Information 	<p>Texas Department of State Health Services:</p> <ul style="list-style-type: none"> DSHS Mosquito-Borne Diseases DSHS West Nile virus DSHS Dengue Arbovirus Activity Reports <p>Center for Disease Control and Prevention:</p> <ul style="list-style-type: none"> CDC West Nile virus CDC Dengue
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