



Tarrant County Public Health

Weekly Arbovirus Surveillance Report: MMWR Week May 17-May 23, 2026

Week 20 Summary

- 136 mosquito pools* have been tested in NTRL from week 20
 - Year-to-date NTRL has tested a total of 493 mosquito pools
- 2 mosquito pools tested positive for WNV this week:
 - Fort Worth (1) Haslet (1)
- Average number of mosquitoes/trap include:
 - *Culex spp*: 80.8
 - *Aedes aegypti* and
 - *Aedes albopictus*: 2.2

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 **5** positives in 2026
Fort Worth (2) Grand Prairie* (2) Haslet (1)

* May include data from outside Tarrant County

Table 1. MLE⁽¹⁾ and VI⁽²⁾ for County Quadrants, Weeks 19 and 20

	County Quadrant	# Gravid traps	Ave F <i>Culex</i> spp	Positive pools	MLE (Lower-Upper Limit)	VI
Week 19	Northeast	45	120.7	1	0.61 (0.04-2.92)	0.07
	Northwest	27	91.0	0	0.00 (0.00-4.32)	0.00
	Southeast	37	125.8	1	0.64 (0.04-3.11)	0.08
	Southwest	23	94.8	0	0.00 (0.00-4.55)	0.00
Week 20	Northeast	49	70.7	0	0.00 (0.00-2.28)	0.00
	Northwest	31	93.4	1	0.00 (0.05-4.55)	0.08
	Southeast	33	106.0	0	0.00 (0.00-3.08)	0.00
	Southwest	17	63.8	1	2.26 (0.13-11.09)	0.14

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 17- 20

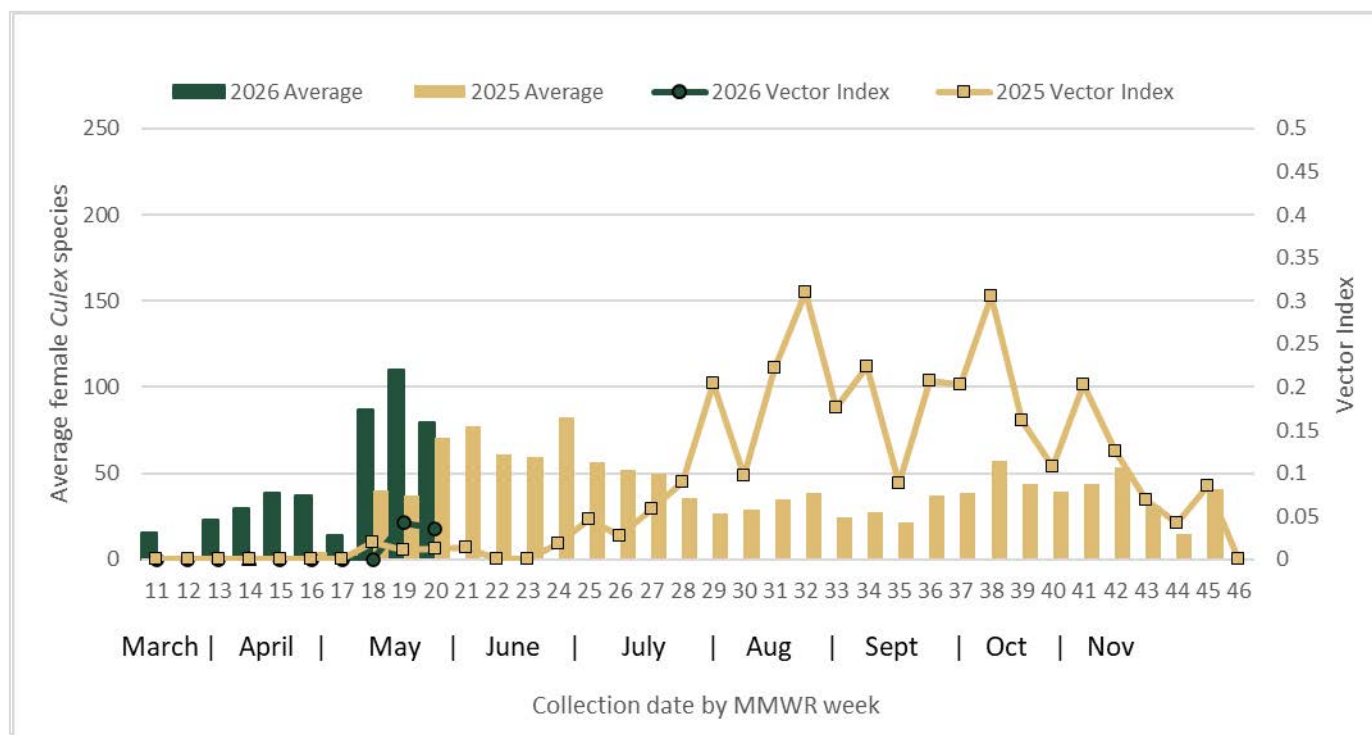
Week	Apr 26- May 2	May 3- May 9	May 10- May 16	May 17- May 23	YTD
MMWR Week	17	18	19	20	
Total number of gravid traps set in Tarrant Region	23	156	159	153	651
Average number of <i>Culex spp</i> per gravid trap	14.3	87.3	112.3	80.8	74.3
Number of mosquito pools tested ¹ (NTRL; non-NTRL)	0;21	133;18	136;23	136;17	493;143
Number of positive mosquito pools (NTRL; non-NTRL) ¹	0;0	0;0	1;2	2;0	3;2
WNV infection rate per 1,000 <i>Culex spp</i> ²	0.00	0.00	0.42	0.47	
Weekly vector index ³	0.000	0.000	0.043	0.036	
Total BG Sentinel traps set in Tarrant Region	0	27	26	24	80
Average number of female <i>Aedes aegypti</i> and <i>Aedes albopictus</i> per BG trap	0.0	1.1	3.8	2.2	2.3

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.

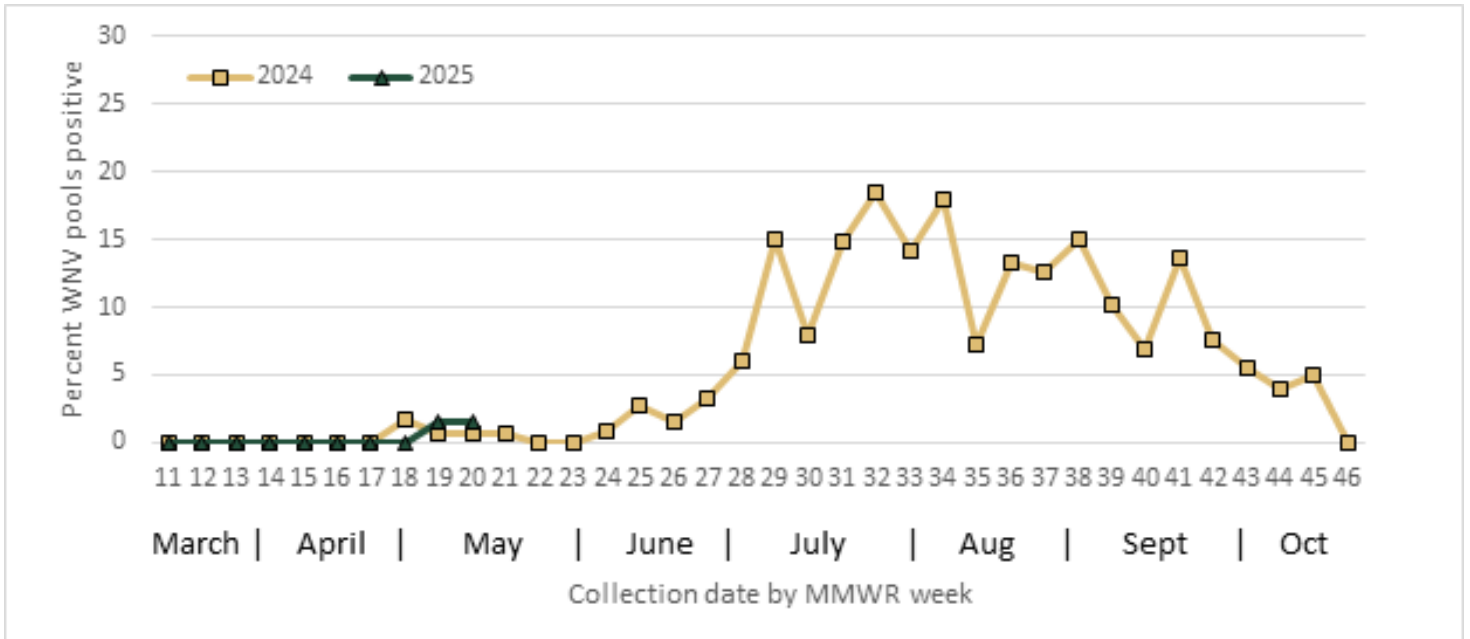
³ Vector Index is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV
 Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to change due to 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 19, 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	1	0	0	0	0	0	0	
Dallas	16	0 WNF	0 WNND	0	0	0	0	0	0	0	0	
Denton	1	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	
Tarrant	4	0 WNF	0 WNND	0	0	0	1	0	0	0	0	
North Texas	21	0 WNF	0 WNND	0	1	0	1	0	0	0	0	
All Texas Counties	54	0	1	0	1	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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