

# Tarrant County Public Health

## Weekly Arbovirus Surveillance Report: MMWR Week Aug 24-Aug 30, 2025



### Week 35 Summary

- 138 mosquito pools\* have been tested in NTRL from week 35
  - Year-to-date NTRL has tested a total of 2374 mosquito pools
- 10 mosquito pools tested positive for WNV this week:  
Bedford (1) Burleson\* (1) Colleyville (1) Crowley (2) Euless (1) Fort Worth\* (2) Keller (1) Westover Hills (1)
- Average number of mosquitoes/trap include:
  - *Culex spp*: 23.8
  - *Aedes aegypti* and 6.8
  - *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 186 positives in 2025

Arlington (24) Bedford (4) Benbrook (1) Burleson \*(17) Colleyville (8) Crowley (5)  
Dalworthington Gardens (1) DFW Airport\*(1) Euless (10) Fort Worth\* (60) Grand Prairie\* (4)  
Grapevine (1) Haltom City (4) Haslet (3) Hurst (1) Keller (6) Lake Worth (5) Mansfield\* (2)  
North Richland Hills (5) Pantego (4) River Oaks (3) Unincorporated (11) Watauga (4)  
Westover Hills (2)

\* May include data from outside Tarrant County

**Table 1. MLE<sup>(1)</sup> and VI<sup>(2)</sup> for County Quadrants, Weeks 34 and 35**

	County Quadrant	# Gravid traps	Ave F <i>Culex</i> spp	Positive pools	MLE (Lower-Upper Limit)	VI
Week 34	Northeast	52	23.2	0.0	0.00 (0.00-2.56)	0.000
	Northwest	30	36.1	1.0	0.66 (0.04-3.19)	0.060
	Southeast	35	23.9	1.0	1.18 (0.07-5.79)	0.067
	Southwest	24	42.7	2.0	2.67 (0.49-8.79)	0.148
Week 35	Northeast	54	14.4	5.0	7.55 (2.85-16.72)	0.109
	Northwest	29	23.4	1.0	1.65 (0.10-8.12)	0.039
	Southeast	30	22.8	0.0	0.00 (0.00-6.13)	0.210
	Southwest	22	35.0	3.0	5.98 (1.56-16.84)	0.039

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 32-35

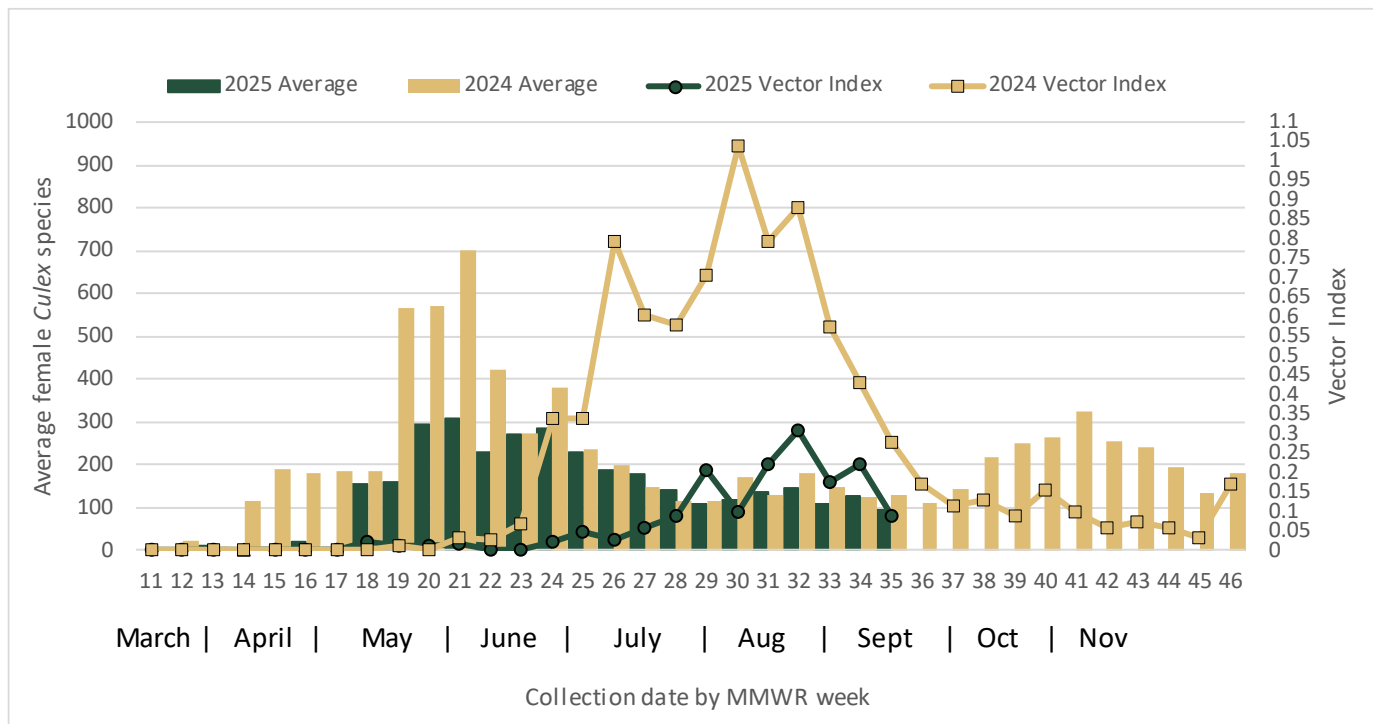
Week	Aug 3- Aug 9	Aug 10- Aug 16	Aug 17- Aug 23	Aug 24- Aug 30	YTD
MMWR Week	32	33	34	35	
Total number of gravid traps set in Tarrant Region	178	181	166	159	3016
Average number of <i>Culex spp</i> per gravid trap	39.2	25.1	28.3	23.8	46.1
Number of mosquito pools tested <sup>1</sup> (NTRL; non-NTRL)	148;26	144;30	128;30	138;11	2374;524
Number of positive mosquito pools (NTRL; non-NTRL) <sup>1</sup>	30;2	27;2	25;4	10;0	173;13
WNV infection rate per 1,000 <i>Culex spp</i> <sup>2</sup>	8.08	7.24	0.89	3.91	
Weekly vector index <sup>3</sup>	0.310	0.176	0.223	0.087	
Total BG Sentinel traps set in Tarrant Region	28	22	26	21	405
Average number of female <i>Aedes aegypti</i> and <i>Aedes albopictus</i> per BG trap	4.8	6.3	5.3	6.8	7.0

<sup>1</sup> Based on mosquito collection date; NTRL = North Texas Regional Laboratory

<sup>2</sup> 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.

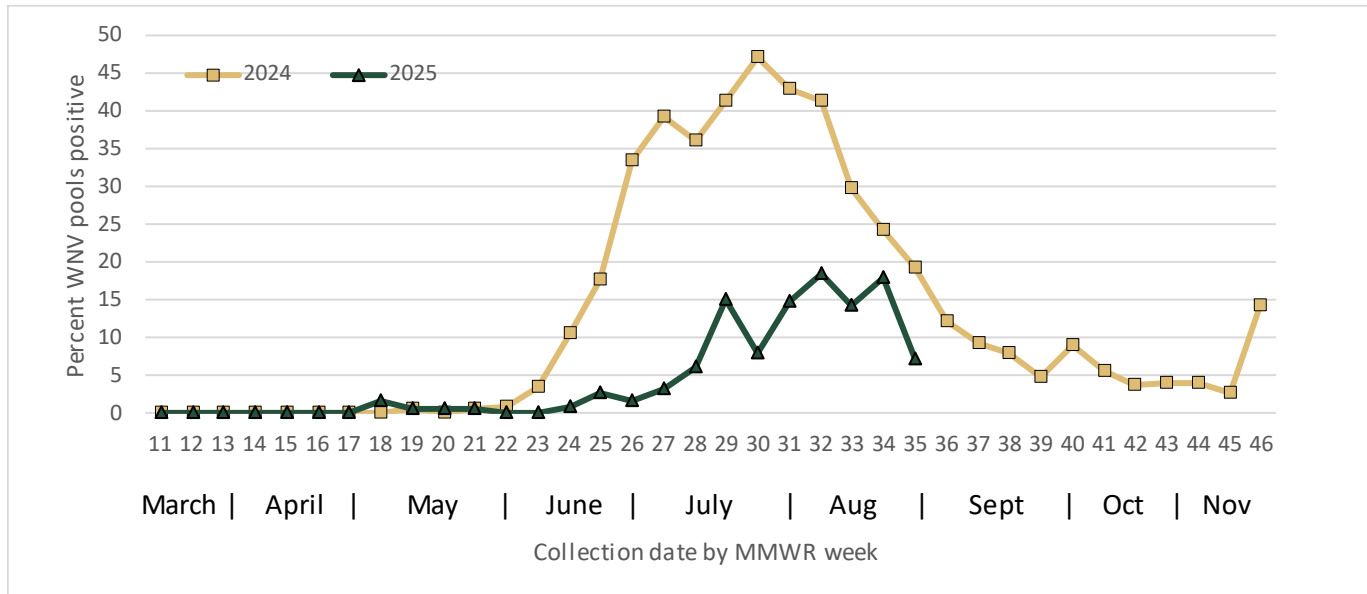
<sup>3</sup> Vector Index is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV  
Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to 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 September 2, 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	9	1 WNF;	1 WNND		0	0	0	0	0	0	0	0
Dallas	209	1 WNF;	2 WNND		0	0	0	3	0	0	0	0
Denton	33	0 WNF;	0 WNND		0	0	0	0	0	0	0	0
Johnson	18	0 WNF;	0 WNND		0	0	0	0	0	0	0	0
<b>Non-Tarrant North Texas</b>	<b>269</b>	<b>2</b>	<b>3</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>All Texas Counties</b>	<b>715</b>	<b>11</b>	<b>16</b>		<b>0</b>	<b>2</b>	<b>0</b>	<b>28</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>

\*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](#)