

# Tarrant County Public Health

## Weekly Arbovirus Surveillance Report: MMWR Week Jul 6-Jul 12, 2025



### Week 28 Summary

- 129 mosquito pools\* have been tested in NTRL from week 28
  - Year-to-date NTRL has tested a total of 1416 mosquito pools
- 8 mosquito pools tested positive for WNV this week:  
Arlington (2) Burleson\* (1) Euless (2) Fort Worth\* (2) River Oaks (1)
- Average number of mosquitoes/trap include:
  - *Culex spp*: 37.5
  - *Aedes aegypti* and 7.3
  - *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 30 positives in 2025

Arlington (3) Burleson \*(5) Crowley (1) Euless (3) Fort Worth\* (11) Grand Prairie\* (1)  
Grapevine (1) Haltom City (1) Lake Worth (1) River Oaks (2) Unincorporated (1)

\* May include data from outside Tarrant County

**Table 1. MLE<sup>(1)</sup> and VI<sup>(2)</sup> for County Quadrants, Weeks 27 and 28**

	County Quadrant	# Gravid traps	Ave F <i>Culex</i> spp	Positive pools	MLE (Lower-Upper Limit)	VI
Week 27	Northeast	61	47.0	0.0	0.00 (0.00-2.56)	0.000
	Northwest	38	51.2	1.0	0.66 (0.04-3.19)	0.060
	Southeast	39	38.4	1.0	1.18 (0.07-5.79)	0.067
	Southwest	23	42.9	2.0	2.67 (0.49-8.79)	0.148
Week 28	Northeast	52	35.7	4.0	3.26 (1.07-7.81)	0.116
	Northwest	20	67.6	1.0	1.42 (0.08-6.78)	0.096
	Southeast	35	27.8	1.0	1.30 (0.07-6.38)	0.036
	Southwest	19	21.9	1.0	2.42 (0.14-11.82)	0.053

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 25-28

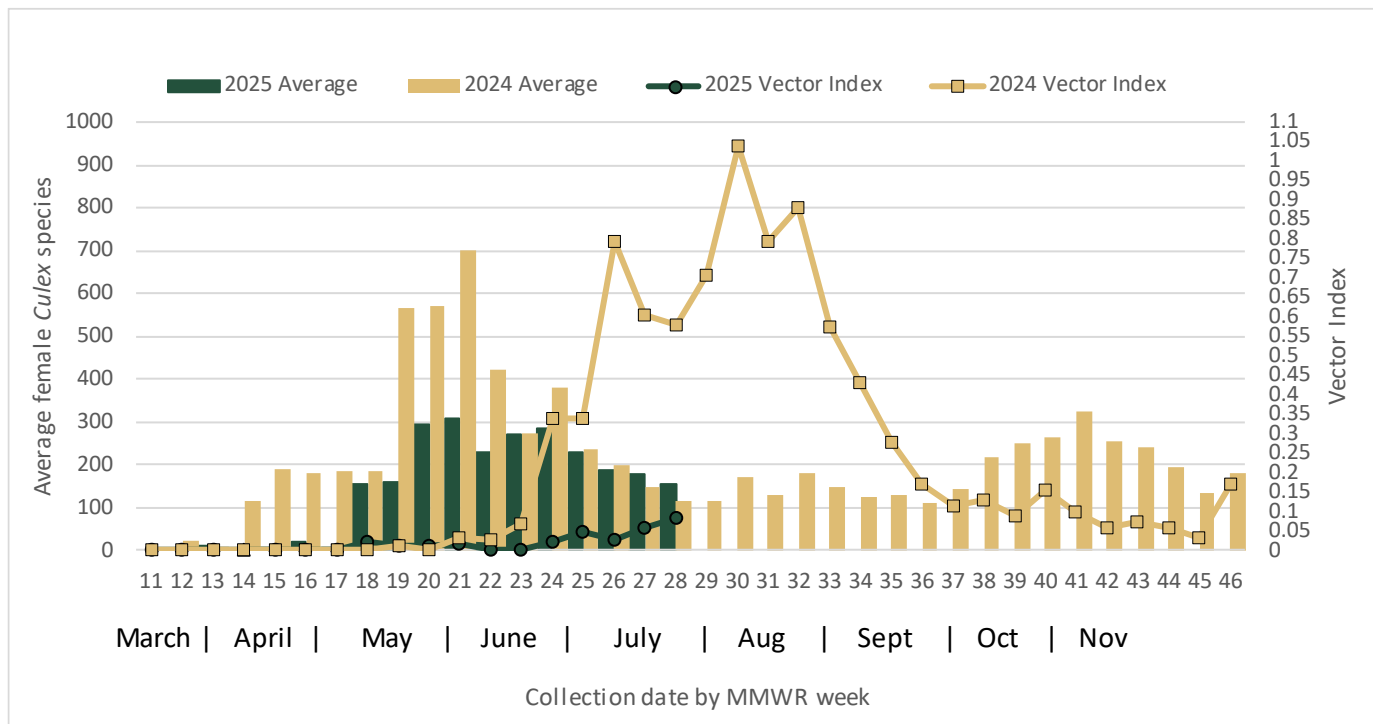
Week	Jun 15- Jun 21	Jun 22- Jun 28	Jun 29- Jul 5	Jul 6-Jul 12	YTD
MMWR Week	25	26	27	28	
Total number of gravid traps set in Tarrant Region	181	159	187	150	1814
Average number of <i>Culex spp</i> per gravid trap	57.3	53.4	51.7	37.5	56.9
Number of mosquito pools tested <sup>1</sup> (NTRL; non-NTRL)	147;24	125;32	148;31	129;17	1416;336
Number of positive mosquito pools (NTRL; non-NTRL) <sup>1</sup>	5;1	2;0	8;0	8;0	29;1
WNV infection rate per 1,000 <i>Culex spp</i> <sup>2</sup>	0.84	0.53	0.89	2.29	
Weekly vector index <sup>3</sup>	0.047	0.028	0.052	0.084	
Total BG Sentinel traps set in Tarrant Region	22	24	18	26	240
Average number of female <i>Aedes aegypti</i> and <i>Aedes albopictus</i> per BG trap	10.9	10.1	5.3	7.3	7.2

<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.

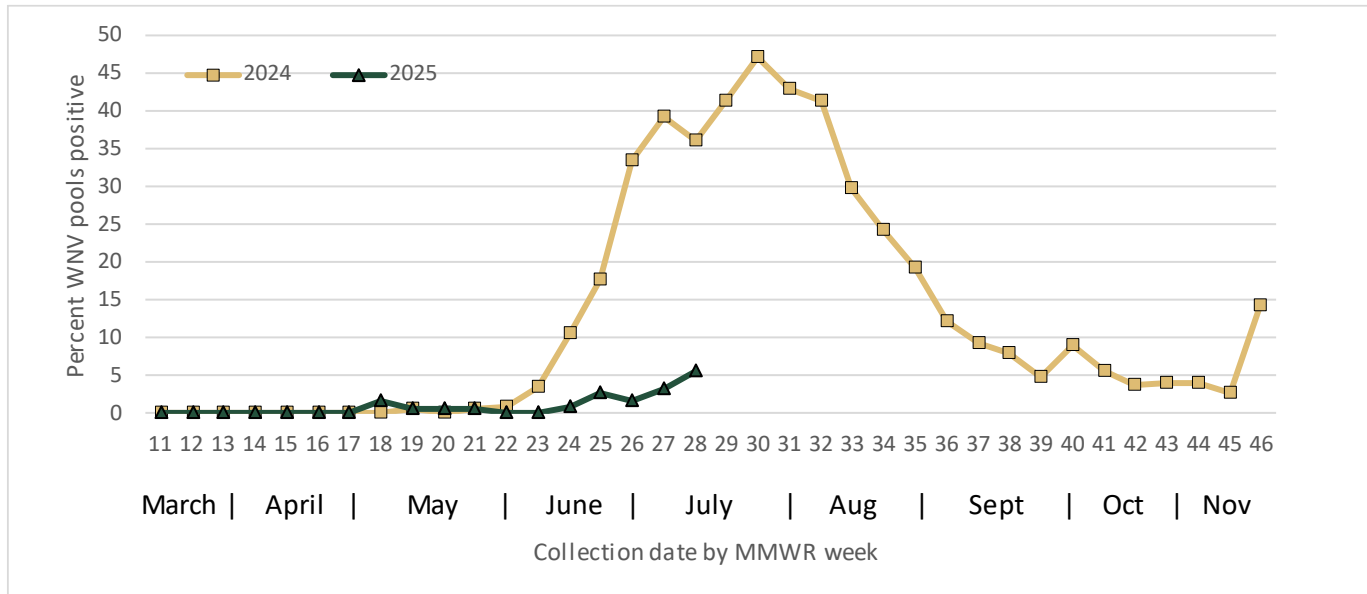
<sup>3</sup> Vector Index is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV  
Note: Infection rate and vector index calculations now includes pools from outside laboratories; Data subject to 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 July 15, 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	1 WNF;	0 WNND		0	0	0	0	0	0	0	0
Dallas	40	0 WNF;	0 WNND		0	0	0	1	0	0	0	0
Denton	7	0 WNF;	0 WNND		0	0	0	0	0	0	0	0
Johnson	5	0 WNF;	0 WNND		0	0	0	0	0	0	0	0
Non-Tarrant North Texas	54	1	0		0	0	0	1	0	0	0	0
<b>All Texas Counties</b>	<b>124</b>	<b>4</b>	<b>1</b>		<b>0</b>	<b>1</b>	<b>0</b>	<b>20</b>	<b>0</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](#)