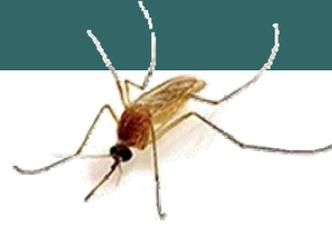




Arbovirus Surveillance Report: Jun 26 - Jul 2, 2016

Tarrant County Public Health



MMWR Week 26 (June 26 – July 2, 2016)
Report Date: July 6, 2016

- A total of 2,037 mosquito pools have been submitted to North Texas Regional Laboratory at Tarrant County Public Health in 2016; All pools have tested negative for SLEV.

- 78** pools have tested positive for WNV in Tarrant County. Cities with positive mosquito pools:

Arlington 11	DFW Airport 1	Grapevine 3	Kennedale 2	Richland Hills 4
Bedford 2	Eules 5	Haltom City 2	Lake Worth 1	River Oaks 4
Burleson† 1	Fort Worth 12	Haslet 2	N. Richland Hills 2	Sansom Park 1
Colleyville 1	Grand Prairie 3	Hurst 3	Pantego 5	Unincorporated 4
Crowley 6		Keller 1		Westover Hills 2

- To date in 2016 there have been 8 imported human Zika virus cases, no CHIKV disease cases, no DENV cases, no SLEV cases, and no WNV cases reported in Tarrant County.
- More information can be found at: [Tarrant County Mosquito-Borne Illness](#)

†Area of Burleson located within Tarrant County; CHIKV-Chikungunya Virus; DENV-Dengue Virus; SLEV-St. Louis Encephalitis Virus; WNV-West Nile Virus

Table 1. WNV activity summary, Tarrant County, Weeks 22-26, 2016

Week	May 29 - Jun 4	Jun 5 - Jun 11	Jun 12 - Jun 18	Jun 19 - Jun 25	Jun 26 - Jul 2	YTD
MMWR Week	22	23	24	25	26	
Total traps placed in Tarrant County	75	227	229	221	135	2,030
Average number of female <i>Culex</i> species per trap	45.1	202.7	163.8	91.1	66.5	108.7
Average number of female <i>Cx. quinquefasciatus</i> per trap	40.5	194.2	161.8	90.7	66.3	92.6
Average number of female <i>Cx. restuans</i> per trap	1.8	4.4	1.2	0.2	0.0	12.4
Number of mosquito pools tested ¹	99	170	181	193	204	2,037
Number of positive mosquito pools (NTRL; Non-NTRL) ²	0;0	5;0	13;1	20;1	32;1	78
Confirmed WNV human cases (WNF; WNND) ³	0;0	0;0	0;0	0;0	0;0	0;0
Presumptive WNV viremic blood donors	0	0	0	0	0	0
WNV infection rate per 1,000 <i>Cx. quinquefasciatus</i> ⁴	0.00	0.66	1.83	3.56	9.42	
WNV infection rate per 1,000 <i>Cx. restuans</i> ⁴	0.00	0.00	0.00	0.00	0.00	
Weekly vector index ⁵	0.000	0.128	0.296	0.323	0.625	

¹ Based on lab testing date; ² Based on mosquito collection date; NTRL = North Texas Regional Laboratory

³ Based on onset of illness date for cases reported to Tarrant County Public Health; WNF=West Nile Fever; WNND = West Nile Neuroinvasive Disease

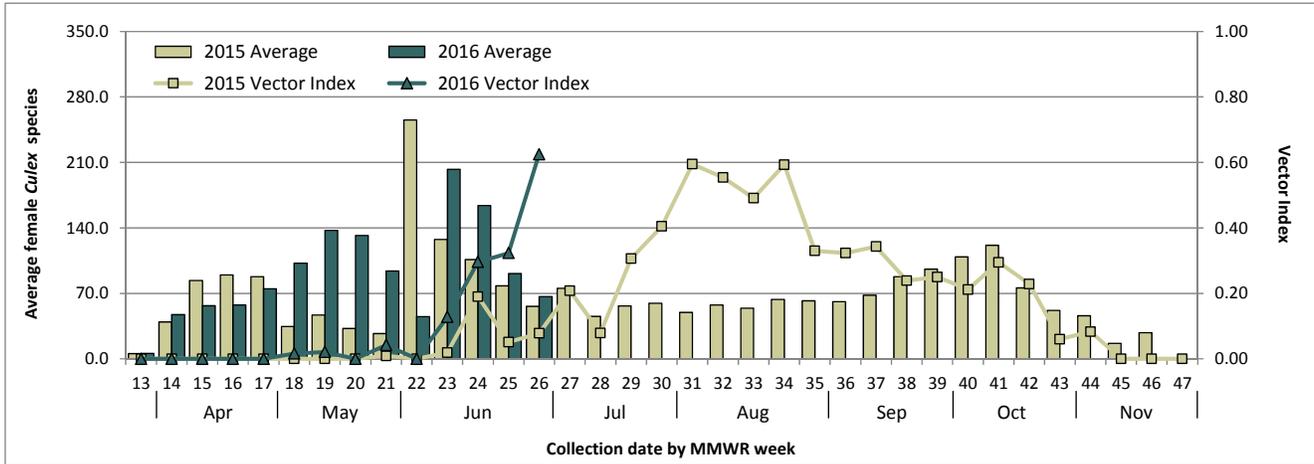
⁴ Calculated using a Maximum Likelihood Estimation (MLE). Biggerstaff, Brad J. PooledInfRate, Version 4.0: a Microsoft® Office Excel® Add-In to compute prevalence estimates from pooled samples. Centers for Disease Control and Prevention, Fort Collins, CO, U.S.A., 2009

⁵ 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 may not include positive pools from Non-NTRL laboratories; Data subject to change due to on-going case investigations, mosquito collection, and testing

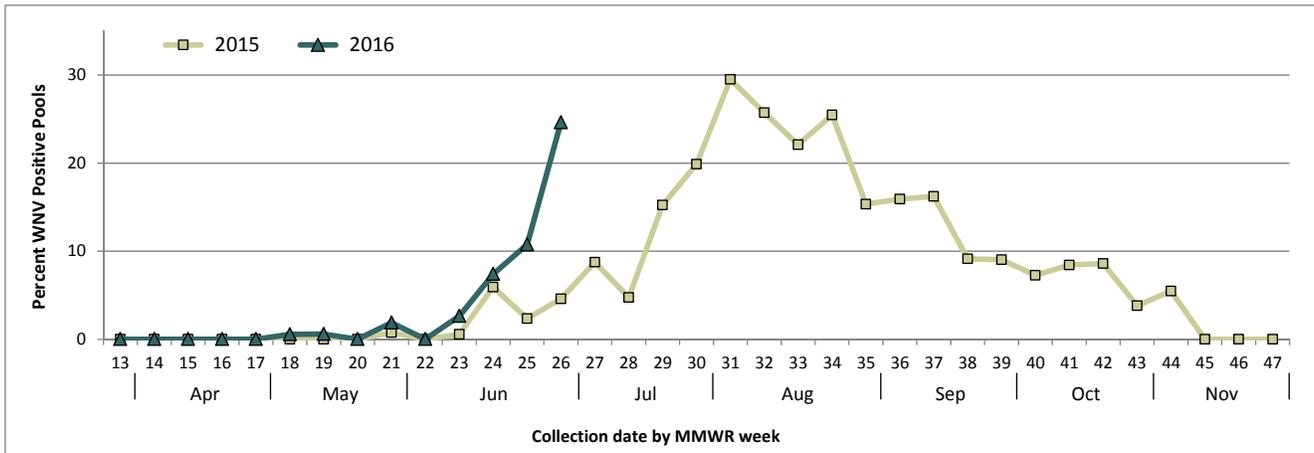
Data source: Tarrant County Public Health

Figure 1. Average number of female *Culex* species per trap and vector index by collection date, Tarrant County, 2015-2016



Data source: Tarrant County Public Health

Figure 2. Percentage of mosquito pools positive for WNV by collection date, Tarrant County, 2015-2016



Data source: Tarrant County Public Health

Table 2. BG Sentinel trap activity, Tarrant County, Weeks 22-26, 2016

Week	May 29 - Jun 4	Jun 5 - Jun 11	Jun 12 - Jun 18	Jun 19 - Jun 25	Jun 26 - Jul 2	YTD
MMWR Week	22	23	24	25	26	
Total BG Sentinel traps placed in Tarrant County	8	41	45	32	5	203
Average number of female <i>Aedes</i> species per trap	4.5	8.3	12.6	10.7	9.2	7.2
Average number of female <i>Aedes aegypti</i> per trap	0.1	1.5	1.7	3.3	3.4	1.3
Average number of female <i>Aedes albopictus</i> per trap	3.3	3.0	2.2	3.7	5.2	2.0

Data source: Tarrant County Public Health

Tarrant County Arbovirus Surveillance Report 07/06/16

Table 3. State-wide arbovirus season activity as reported by Texas DSHS on July 5, 2016

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	2
Dallas	86	0 WNF; 0 WNND	0	0	0	2	0	0	0	10
Denton	9	0 WNF; 0 WNND	0	0	0	0	0	0	0	2
Ellis	0	0 WNF; 0 WNND	0	0	0	0	0	0	0	1
Hood	0	0 WNF; 0 WNND	0	0	0	0	0	0	0	0
Hunt	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
Kaufman	0	0 WNF; 0 WNND	0	0	0	0	0	0	0	0
Parker	0	0 WNF; 0 WNND	0	0	0	0	0	0	0	0
Rockwall	1	0 WNF; 0 WNND	0	0	0	0	0	0	0	0
Somervell	0	0 WNF; 0 WNND	0	0	0	0	0	0	0	0
Tarrant	39	0 WNF; 0 WNND	0	0	0	0	0	0	0	5
Wise	0	0 WNF; 0 WNND	0	0	0	0	0	0	0	1
North Texas Total	135	0 WNF; 0 WNND	0	0	0	2	0	0	0	21
All Texas Counties	144	0 WNF; 1 WNND	0	4	0	10	0	0	0	53

* All reported CHIKV, DENV, & Zika human cases are imported; 1 Zika case from Dallas County was sexually transmitted by an imported case

WNV - West Nile Virus; WNF - West Nile Fever; WNND - West Nile Neuroinvasive Disease; CHIKV - Chikungunya Virus; DENV - Dengue Virus; SLEV - Saint Louis Encephalitis Virus;

Data source: Texas Department of State Health Services (DSHS)