

- To date in 2016 there have been 43 human WNV cases (16 WNF & 27 WNND), 26 travel-related Zika cases, 2 CHIKV case, 1 DENV case, and no SLEV cases reported in Tarrant County.
- More information can be found at: <u>Tarrant County Mosquito-Borne Illness</u>

<sup>†</sup>Area of cities located within Tarrant County; CHIKV-Chikungunya Virus; DENV-Dengue Virus; SLEV-St. Louis Encephalitis Virus; WNV–West Nile Virus; WNF = West Nile Fever; WNND = West Nile Neuroinvasive Disease

Table 1.	WNV activity s	ummary, Tarrant County,	Weeks 42-46, 2016
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Week		Oct 23 - Oct 29	Oct 30 - Nov 5	Nov 6 - Nov 12	Nov 13 - Nov 19	YTD
MMWR Week	42	43	44	45	46	
Total traps placed in Tarrant County	204	192	188	100	12	6,257
Average number of female Culex mosquitoes per trap	36.1	45.2	48.6	44.8	5.4	64.6
Average number of female Cx. quinquefasciatus per trap	34.1	41.9	44.6	40.8	4.8	58.2
Average number of female Cx. nigripalpus per trap	0.3	0.4	0.0	0.1	0.0	0.1
Average number of female <i>Cx. restuans</i> per trap		1.3	0.9	1.6	0.0	4.3
Number of mosquito pools tested <sup>1</sup>		165	166	71	33	5,312
Number of positive mosquito pools (NTRL; Non-NTRL) <sup>2</sup>		2;0	2;0	2;0	0;0	530;27
Confirmed WNV human cases (WNF; WNND) <sup>3</sup>	0;1	0;1	2;0	0;0	0;0	16;27
Presumptive WNV viremic blood donors	0	0	1	0	0	4
WNV infection rate per 1,000 Cx. quinquefasciatus <sup>4</sup>	1.76	0.55	0.55	0.89	0.00	
WNV infection rate per 1,000 Cx. nigripalpus <sup>4</sup>	0.00	0.00	0.00	0.00	0.00	
WNV infection rate per 1,000 Cx. restuans <sup>4</sup>		0.00	0.00	0.00	0.00	
Weekly vector index <sup>5</sup>	0.060	0.023	0.025	0.036	0.000	

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

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

<sup>4</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

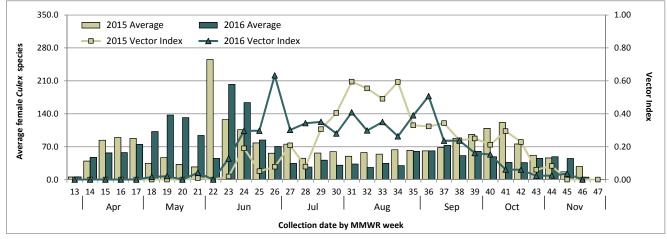
<sup>5</sup> Vector Index is a measure of infectivity accounting for vector species composition, vector species population density, and proportion of vector population infected with WNV

Note: Infection rate and vector index calculations 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

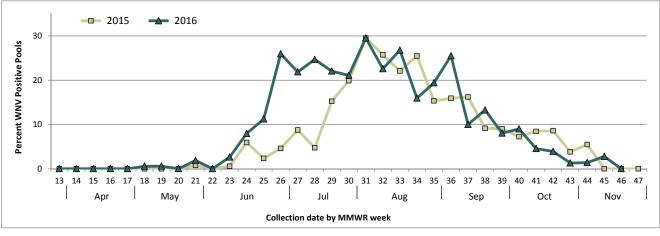






Data source: Tarrant County Public Health





Data source: Tarrant County Public Health

Table 2.	BG Sentinel	trap activity,	Tarrant County,	Weeks 42-46,	2016
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Week		Oct 23 - Oct 29	Oct 30 - Nov 5	Nov 6 - Nov 12	Nov 13 - Nov 19	YTD
MMWR Week		43	44	45	46	
Total BG Sentinel traps placed in Tarrant County	38	30	34	20	4	1,098
Average number of female Aedes mosquitoes per trap	3.8	1.8	2.5	2.4	9.3	6.2
Average number of female Aedes aegypti per trap	2.5	1.2	1.0	2.0	4.3	3.3
Average number of female <i>Aedes albopictus</i> per trap		0.6	0.9	0.1	0.3	1.7

Data source: Tarrant County Public Health

North	WNV		CHIKV*		DENV*		SLEV		Zika <sup>*</sup>	
Texas Counties	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	89	10 WNF; 11 WNND	0	3	0	3	0	0	0	5
Dallas	698	20 WNF; 35 WNND	0	2	0	6	0	0	0	44
Denton	78	10 WNF; 10 WNND	0	0	0	2	0	0	0	9
Ellis	31	0 WNF; 3 WNND	0	0	0	0	0	0	0	1
Hood	0	1 WNF; 0 WNND	0	0	0	0	0	0	0	0
Hunt	11	1 WNF; 4 WNND	0	0	0	0	0	0	0	0
Johnson	15	0 WNF; 3 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; 2 WNND	0	0	0	0	0	0	0	1
Rockwall	21	0 WNF; 1 WNND	0	0	0	0	0	0	0	0
Somervell	0	0 WNF; 0 WNND	0	0	0	0	0	0	0	0
Tarrant	559	15 WNF; 28 WNND	0	2	0	1	0	0	0	26
Wise	0	0 WNF; 0 WNND	0	0	0	0	0	0	0	1
North Texas Total	1,502	57 WNF; 97 WNND	0	7	0	12	0	0	0	87
All Texas Counties	1,767	95 WNF; 197 WNND	0	13	0	35	1	0	0	254

## Table 3. State-wide arbovirus season activity as reported by Texas DSHS on Nov 22, 2016

\* 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 - Saint Louis Encephalitis Virus;

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