



2017 Profile of Human West Nile Virus in Dallas County

Dallas County Health and Human Services

Demographic Characteristics of Human WNV Cases, 2017

	WNND		WNF		Total WNV	
	n (%)	Incidence per 100,000	n (%)	Incidence per 100,000	n (%)	Incidence per 100,000
Total	15 (57.7)	0.6	11 (42.3)	0.4	26 (100.0)	1.0
Male	9 (60.0)	0.7	8 (72.7)	0.6	17 (65.4)	1.3
Female	6 (40.0)	0.5	3 (27.3)	0.2	9 (34.6)	0.7
Hispanic	3 (20.0)	0.3	0	N/A	3 (12.0)	0.3
White	12 (80.0)	1.5	10 (100.0)	1.3	22 (88.0)	2.8
Black	0	N/A	0	N/A	0	N/A
Asian	0	N/A	0	N/A	0	N/A
American Indian	0	N/A	0	N/A	0	N/A
Age Group (years)						
0-17	0	N/A	1 (9.1)	0.1	1 (3.8)	0.1
18-24	0	N/A	0	N/A	0	N/A
25-44	2 (13.3)	0.3	2 (18.2)	0.3	4 (15.4)	0.5
45-64	7 (46.7)	1.2	6 (54.5)	1.0	13 (50.0)	2.2
≥65	6 (40.0)	2.3	2 (18.2)	0.8	8 (30.8)	3.1

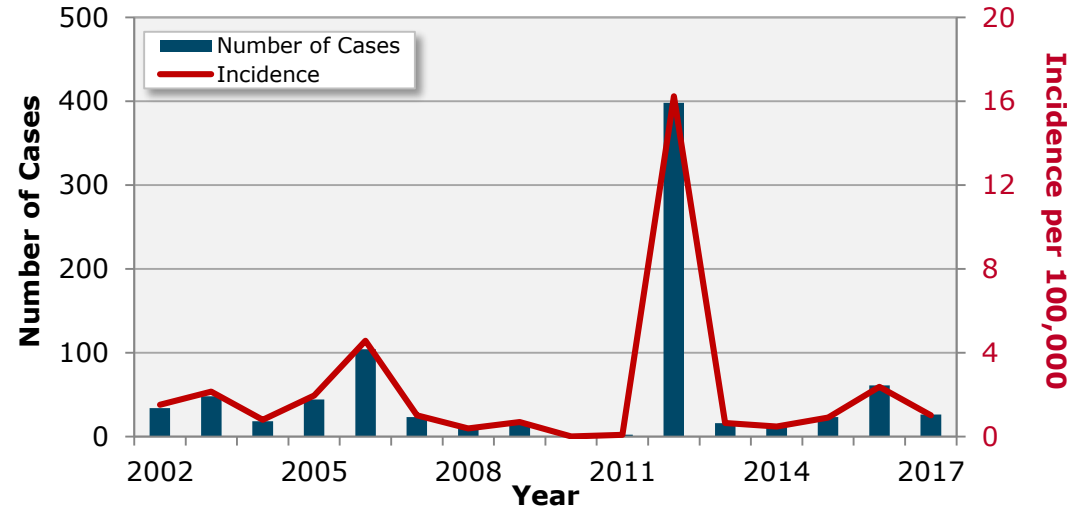
N/A = Not applicable

Clinical Characteristics of Human WNV Cases, 2017

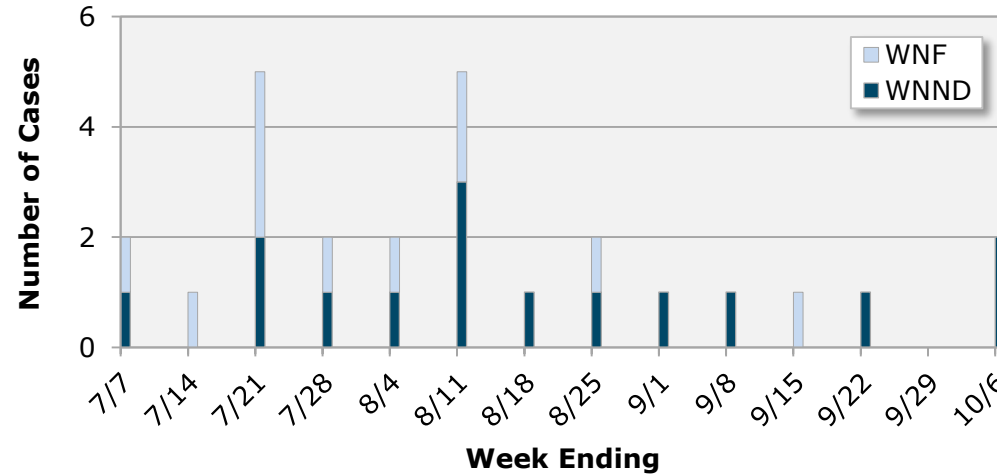
	WNND	WNF	Total WNV
	n (%)	n (%)	n (%)
Clinical Presentation			
Fever	13 (86.7)	10 (90.9)	23 (88.5)
Meningitis	7 (46.7)	0	7 (26.9)
Encephalitis	9 (60.0)	0	9 (34.6)
Asymmetric Flaccid Paralysis	1 (6.7)	0	1 (3.8)
Clinical Course			
Hospitalizations	15 (100.0)	0	15 (57.7)
Median Days Hospitalization (range)	9 (4 - 43)	N/A	9 (4 - 43)
Admitted to Intensive Care Unit	4 (27.0)	0	4 (15.0)
Mechanical Ventilation or BiPAP	2 (13.0)	0	2 (8.0)
Discharge to LTCF or Rehab Facility	2 (13.0)	0	2 (8.0)
Deaths	2 (13.0)	0	2 (8.0)

Note: The categories are not mutually exclusive.

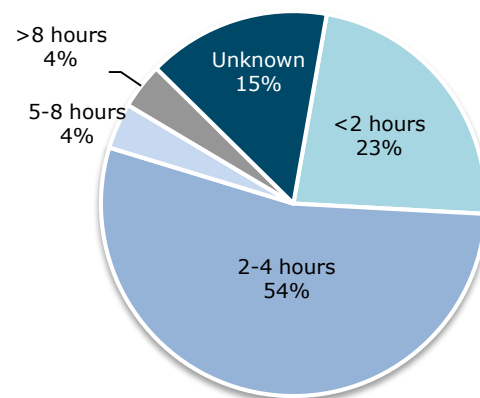
Human WNV Cases and Incidence by Year of Onset, Dallas County, 2002-2017



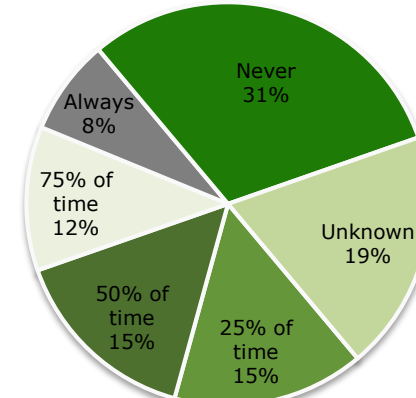
Human WNV Cases by Week of Onset, 2017



Reported Average Daily Time Outdoors (hours), (n=26)



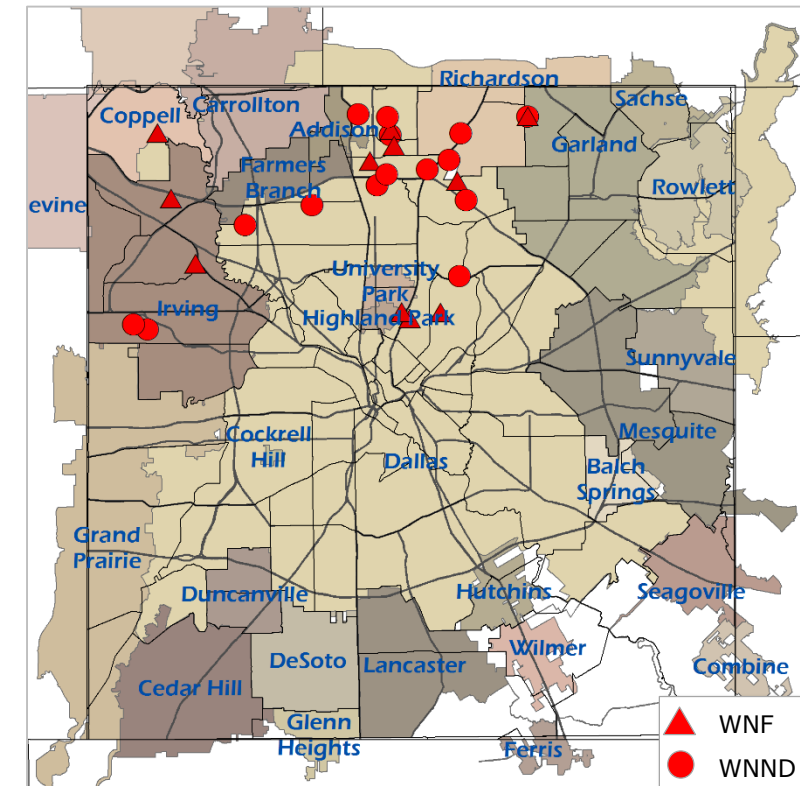
Reported Frequency of Insect Repellent Use, (n=26)



Summary

- In 2017, 26 WNV cases were reported in Dallas County, in comparison to 61 WNV cases in 2016.
- The median age of all WNV cases was 58 years (range: 15-77 years).
- 77% of WNND cases were in adults ≥50 years of age.
- No WNV-positive viremic blood donors were reported among Dallas County residents in 2017.
- Two WNV-related deaths were reported.
- The numbers of human WNV cases reflected the higher WNV infection indices of trapped mosquitos in the area during this year season. {See DCHHS 2017 Arboviral Epidemiology Report Summary.}

Distribution of Human WNV Cases, 2017



Note: WNND = West Nile neuroinvasive disease; WNF = West Nile fever; LTCF = Long term care facility
 Incidence calculated using projected population data for 2016. Median and range of hospitalizations are calculated using the subset of individuals who were hospitalized.
 Data Sources: Dallas County Department of Health and Human Services, Epidemiology Division; National Electronic Disease Surveillance System (NEDSS); Population data obtained through the Centers for Disease Control and Prevention: WONDER Bridged-Race Population Estimates 1990-2016.