Maricopa County Department of Public Health

# West Nile Virus
# End of Year Report, 2018

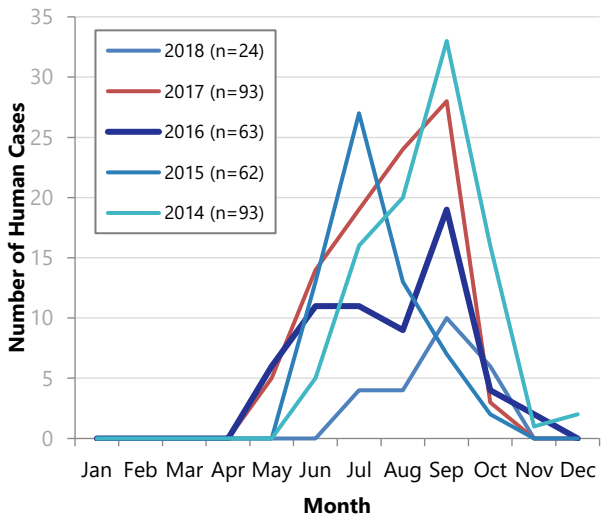
West Nile virus (WNV) arrived in Arizona in 2003 and is now endemic in Maricopa County. The Maricopa County Department of Public Health (MCDPH) Office of Epidemiology collaborates with the Maricopa County Department of Environmental Services (MCDES) Office of Vector Control to identify and monitor areas of WNV activity. This report describes trends in human infections during 2018. Please visit http://www.maricopa.gov/wnv/ for more information about WNV.

**Characteristics of Human WNV Infections: Maricopa County, 2018**

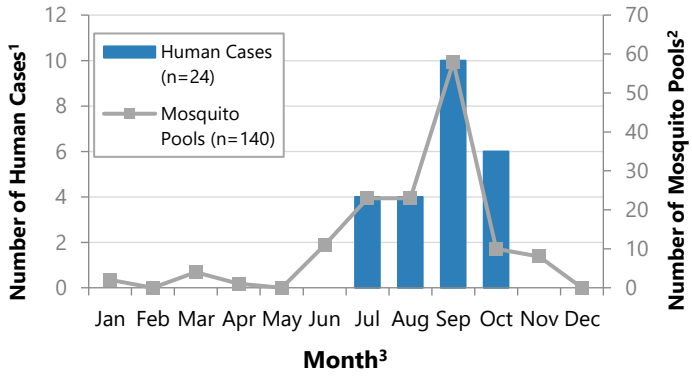
| Year Total* | Non-neuroinvasive† | Neuroinvasive | Hospitalized | Deaths | Demographics | | |
|---|---|---|---|---|---|---|---|
| | | | | | Gender M/F | Median Age (Range) | Race/Ethnicity |
| 24 | 1 Fever | 15 Encephalitis<br>7 Meningitis<br>1 Other | 22 Neuroinvasive | 6 | 15/9 | 66 (27-87) | 17 White, Non-Hispanic<br>6 Hispanic or Latino<br>1 Unknown |

**There were 0 viremic blood donors in 2018*

## Human Cases of WNV in Maricopa County by Month of Onset, 2014-2018



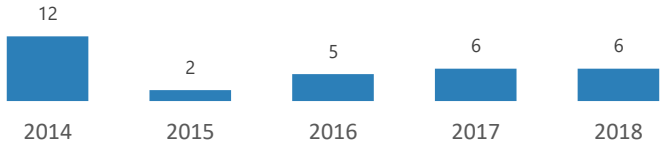

## WNV Cases in Humans and WNV Positive Mosquito Pools in Maricopa County by Month, 2018




*[1]A human case is an individual infected with WNV and with a clinically compatible illness*
*[2]Mosquito pools are a collection of mosquitoes collected by MCDES from a county trap and tested positive for WNV*
*[3]Human data are based on date of symptom onset, mosquito data are based on date of mosquito collection*

In past reports, rates of human WNV illness by cities were included. Due to the low number of cases in 2018, this cannot be done. The overall rate of WNV illness in Maricopa County for 2018 was **0.5** per 100,000 population.

## WNV Deaths in Maricopa 2014-2018




FIGHT THE BITE! DAY & NIGHT

https://www.maricopa.gov/2423/Fight-the-Bite

**WNV Mortality Description 2018**

| Confirmed Deaths | Clinical Presentation | Median Age (Range) | Gender M/F | Race/Ethnicity |
|---|---|---|---|---|
| 6 | 6 Encephalitis | 72 (67-87) | 3/3 | 6 White, Not Hispanic |

*Mean age of West Nile Virus survivors (58 years) versus deaths (74 years) was statistically significant for 2018 (α=0.05).*