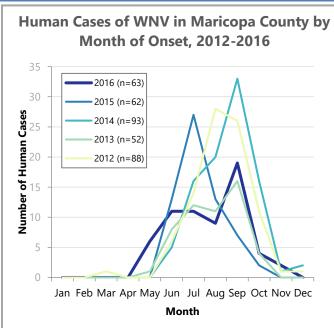
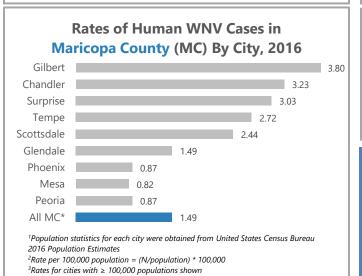


West Nile Virus End of Year Report, 2016

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 2016. Please visit http://www.maricopa.gov/wnv/ for more information about WNV.

| Characteristics of Human WNV Infections: Maricopa County, 2016 | | | | | | | | | |
|---|--------------------|---|---|--------|--------------|--------------|---|--|--|
| | | | | | Demographics | | | | |
| Year | | | | | Gender | Median Age | | | |
| Total* | Non-neuroinvasive† | Neuroinvasive | Hospitalized | Deaths | M/F | (Range) | Race/Ethnicity | | |
| 63 | 17 Fever | 22 Encephalitis 23 Meningitis 1 Other | 45 Neuroinvasive 3 Non-neuroinvasive | 5 | 37/26 | 50 (4-93) | 41 White, Non-Hispanic 2 Black, Non-Hispanic 1 Asian/Pacific Islander | | |
| *Viremic donors who do not become symptomatic (3) are not included in year total | | | | | | | 6 Hispanic or Latino 1 Native American 1 Other, Non-Hispanic 11 Unknown | | |

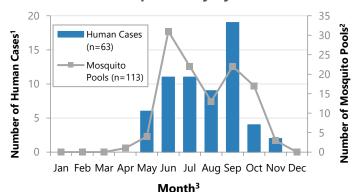




*All MC includes cities displayed in figure, as well as other cities and unincorporated

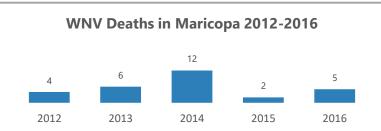
areas with populations < 100,000

WNV Cases in Humans and WNV Positive Mosquito Pools in Maricopa County by Month, 2016



¹A human case is an individual infected with WNV and with a clinically compatible illness ²Mosquito pools are a collection of mosquitoes collected by MCDES from a county trap and tested positive for WNV

³Human data are based on date of symptom onset, mosquito data are based on date of mosquito collection



| WNV Mortality Description 2016 | | | | | | | | | |
|--------------------------------|--------------------------------|--------------------------|---------------|------------------------------------|--|--|--|--|--|
| Confirmed Deaths | Clinical Presentation | Median Age (Range) | Gender M/F | Race/Ethnicity | | | | | |
| 5 | 4 Encephalitis 1 Meningitis | 77 (48-93) | 1/4 | 4 White, Not Hispanic 1 Unknown | | | | | |

Mean age of West Nile Virus survivors (48 years) versus deaths (75 years) was statistically significant for 2016 (α =0.05).