

West Nile Virus 2015 End of Year Report

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 in 2015 during a concurrent outbreak of WNV and St. Louis encephalitis (SLE).

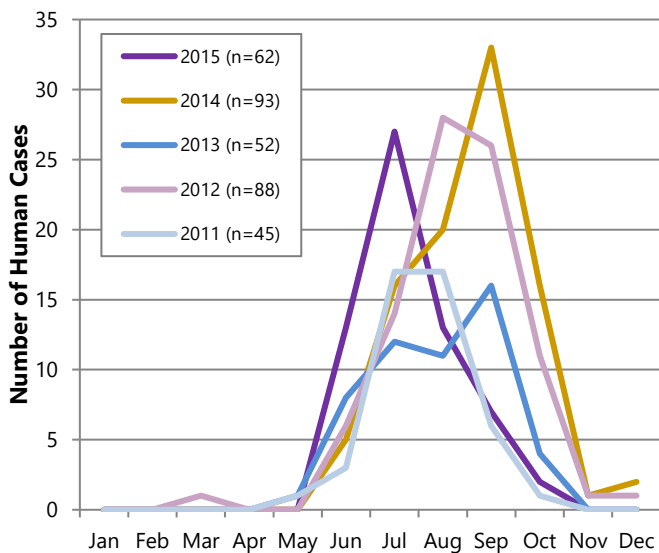
Please visit <http://www.maricopa.gov/publichealth/Diseases/mosquito/> for more information about WNV.

Characteristics of Human WNV Infections: Maricopa County, 2015

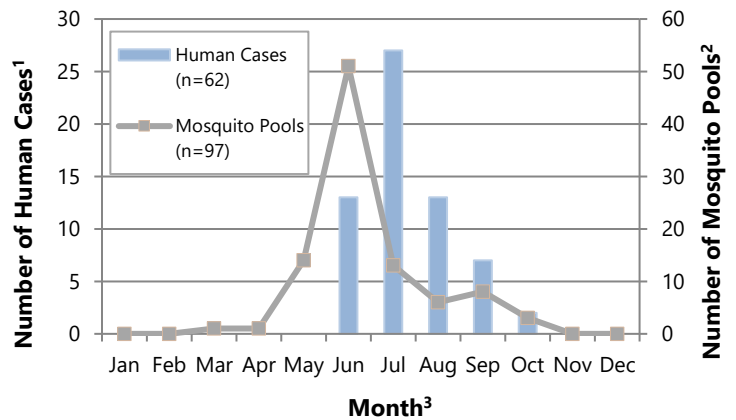
Year Total*	Non-neuroinvasive†		Neuroinvasive		Hospitalized		Deaths	Demographics			
								Gender M/F	Median Age (Range)	Race/Ethnicity	
62†	23	=Fever 3	15	=Encephalitis 21	36	=Neuroinvasive 10	2	35/27	56 (21-89)	44	=White, Non-Hispanic 7 =Hispanic or Latino 2 =Native American 2 =Other, Non-Hispanic 7 =Unknown

*Viremic donors who do not become symptomatic (6) and cases of unspecified flavivirus are not included in year total

Human Cases of WNV in Maricopa County by Month of Onset, 2011-2015

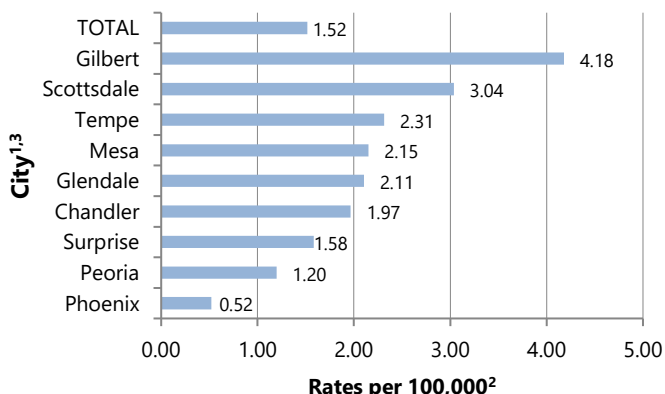


WNV Cases in Humans and WNV Positive Mosquito Pools in Maricopa County by Month, 2015



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

Rates of Human WNV Cases in Maricopa County By City, 2015



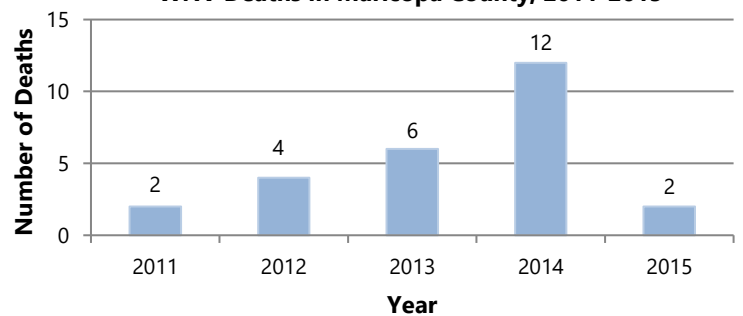
¹ Population statistics for each city were obtained from United States Census Bureau 2014 Population Estimates

² Rate per 100,000 population = (N/population) * 100,000

³ Rates for cities with ≥ 100,000 populations shown

* Total includes cities displayed in figure, as well as other cities and unincorporated areas with populations < 100,000

WNV Deaths in Maricopa County, 2011-2015



WNV Mortality Description 2015

Confirmed Deaths	Clinical Presentation	Median Age (Range)	Gender M/F	Race/Ethnicity
2	=Encephalitis	74.5 (73-76)	1/1	=White, Non-Hispanic or Latino

There was no statistically significant difference in age in survivors versus deaths