

August 25, 2017



SOUTHERN NEVADA HEALTH DISTRICT WEEKLY ARBOVIRUS UPDATE

Clark County, NV. – In an effort to keep Clark County residents and visitors safe and aware about the status of the arboviruses currently affecting the area, the Southern Nevada Health District (SNHD) will issue an arbovirus update weekly.

The Southern Nevada Health District conducts routine surveillance for arboviruses in mosquitoes and arboviral disease in humans. SNHD's Vector Control program monitors the local mosquito population for arboviruses such as West Nile Virus (WNV), St. Louis Encephalitis Virus (SLEV), and Western Equine Encephalitis Virus (WEEV). In addition to monitoring mosquitoes for arboviruses, they also provide information on the type of mosquitoes present in the area. This information is important, especially when faced with emerging diseases like Zika.

Arboviral diseases in humans are reportable to SNHD's Office of Epidemiology and Disease Surveillance (OEDS). Currently, WNV and SLEV are the only locally acquired arboviral diseases that we've seen. The OEDS sporadically investigates travel associated cases of Dengue, Chikungunya, and beginning in 2016, Zika virus.

ZIKA VIRUS UPDATE

To date in 2017, SNHD has tested 88 people for the Zika virus. In 2016, SNHD tested 156 people. The first travel related case of Zika was identified in an adult female who traveled to Bolivia and Argentina. Testing guidelines were updated on 7/24/17 by the CDC to no longer recommend testing for asymptomatic pregnant women who only have one recent exposure event. This group was the largest portion of clients tested at SNHD; therefore, we anticipate a sharp decrease in testing numbers going forward due to these new guidelines.

Infection Type	Case Count	
	2016	2017
Travel-Related Infections of Zika	21	2
Non-Travel Related Infections of Zika	1	0

CDC recommends that women who are pregnant or thinking of becoming pregnant postpone travel to areas with local Zika transmission. If you are pregnant and must travel or if you live or work in the impacted area, protect yourself from mosquito bites by wearing insect repellent, long clothing and limiting your time outdoors.

CDC recommends that a pregnant woman with a history of Zika virus and her provider should consider additional ultrasounds.

Pregnant women can contact SNHD for Zika risk assessment and testing hours and information. A Zika risk assessment will be conducted by OEDS staff and blood and/or urine samples may be collected and sent to labs for testing.

For resources and information on Zika virus, click [here](#).

ACTIVE WNV or SLEV INVESTIGATIONS

The OEDS currently has no active WNV investigations.

Reported Cases	Date of Onset	Commercial Lab Positive	Type of Disease	PRNT Results
1	3/1/17	WNV IgM – serum	Neuroinvasive	Positive

MOSQUITO SURVEILLANCE

The Department of Agriculture reported 13 additional WNV positive mosquito pools, totaling 299 mosquitoes, from seven zip codes. Jurisdictional counterparts were notified to assist with source reduction and provide mosquito prevention information to constituents.

SNHD received over 45 complaints of mosquito activity from residents of 89131 zip code. The area received a lot of rain in recent weeks which created areas of standing water in the built infrastructure and desert areas. SNHD staff worked collaboratively with CLV Public Works and Code Enforcement to identify these areas for environmental management to prevent breeding.

Mosquito trapping identified a low lying desert area near a residential community with a significant number of flood water mosquitoes. These are very aggressive, day biting mosquitoes and staff deployed traps to collect adults as a method of non chemical control. It is expected the hatch will die off shortly.

SNHD continued its focused surveillance for *Aedes aegypti* and set 26 additional traps in the affected areas, which yielded 1 female *Ae. aegypti*. Additionally, one *Ae. aegypti* trapped 8/3/17 was West Nile Virus positive. Hand held ULV treatments will be conducted at the newly identified *Ae. aegypti* location and the home where WNV infected *Ae. aegypti* was trapped.

MOSQUITO SAMPLING 2017

Total Mosquitoes Submitted	Total Pools Submitted	Total SLEV + Pooled Submissions	Total SLEV + Mosquitoes in Pooled Samples	Zip Codes identified with SLEV
36,701	1,411	2	72	1

Total Mosquitoes Submitted	Total Pools Submitted	Total WNV + Pooled Submissions	Total WNV + Mosquitoes in Pooled Samples	Zip Codes identified with WNV
36,701	1,411	25	709	14

Total Mosquitoes Submitted	Total Pools Submitted	Total WEE + Pooled Submissions	Total WEE + Mosquitoes in Pooled	Zip Codes identified with WEE

			Samples	
36,701	1,411	1	30	1

SNHD urges residents to drain standing water weekly, no matter how seemingly small. Residents and visitors should use repellents when enjoying the outdoors. Residents are also encouraged to report mosquito activity, especially day biting mosquitoes to the Vector Surveillance Program at 702-759-1633.