

September 8, 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 89 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 2 active WNV investigations. The first new case reported frequent walks around a lake at a Henderson park, EH set traps at the park and at the case’s home, results for mosquito testing are negative with a few submissions still pending. The case also had travel to CA for 4 days of the incubation period. The second new case also spent time in CA so it is unknown where illness may have been acquired. Traps were set at the residence and found few mosquitoes. Those results are pending. OEDS received report of a third case but this case lives in CA and illness onset was prior to coming to visit LV. No investigation done on this case, it was reported to the state to be sent to CA.

Reported Cases	Date of Onset	Commercial Lab Positive	Type of Disease	PRNT Results
1	3/1/17	WNV IgM – serum	Neuroinvasive	Positive
2	8/7/17	WNV IgM – CSF	Neurionvasive	
3	8/20/17	WNV IgM - serum	Neuroinvasive	

MOSQUITO SURVEILLANCE

The Department of Agriculture reported 12 additional WNV positive mosquito pools, totaling 396 mosquitoes, from two previously identified zip codes. The samples were collected in areas of City of Las Vegas that experienced heavy rains. City of Las Vegas (CLV) Public Works counterparts environmentally remediated or chemically treated areas of standing water and CLV disseminated WNV prevention public health information.

Staff responded to a human WNV case in 89117. Traps set at the residence collected few mosquitoes which will be submitted for arboviral analysis. City of Las Vegas counterparts were notified to survey breeding areas in their jurisdiction. Mosquitoes captured in response to the WNV case in 89074 have tested negative for WNV with a few submissions still pending results.

SNHD continued its focused surveillance for *Aedes aegypti*, now identified in two distinct areas of the valley. Eighteen traps were set in new areas of the 89032; no additional *Ae. aegypti* were identified.

MOSQUITO SAMPLING 2017

Total Mosquitoes Submitted	Total Pools Submitted	Total SLEV + Pooled Submissions	Total SLEV + Mosquitoes in Pooled Samples	Zip Codes identified with SLEV
41,403	1,565	2	72	1

Total Mosquitoes Submitted	Total Pools Submitted	Total WNV + Pooled Submissions	Total WNV + Mosquitoes in Pooled Samples	Zip Codes identified with WNV
41,403	1,565	37	1,105	14

Total Mosquitoes Submitted	Total Pools Submitted	Total WEE + Pooled Submissions	Total WEE + Mosquitoes in Pooled Samples	Zip Codes identified with WEE
41,403	1,565	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.