

June 23, 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 68 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.

Infection Type	Case Count	
	2016	2017
Travel-Related Infections of Zika	21	1
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.

According to CDC guidance, providers should consider testing all pregnant women with a history of travel to a Zika affected area for the virus. 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. It may take one to two weeks to receive results. For resources and information on Zika virus, click [here](#).

ACTIVE WNV or SLEV INVESTIGATIONS

The OEDS currently has no active WNV investigations. The first reported case of WNV for the season passed away and has been reported as a fatality.

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

MOSQUITO SURVEILLANCE

Aedes aegypti response:

In an ongoing effort to control the adult mosquitoes, on 6/16 a handheld ULV treatment was conducted at a home adjacent to one positive location. Additionally, a secondary truck mounted ULV of the entire community occurred in the early morning hours on 6/17. Post treatment trapping did not identify any *Aedes* mosquitoes in the target area.

As part of our ongoing surveillance plan, staff set traps in surrounding communities to determine the scope of the infestation. On 6/22 one male *Aedes aegypti* was captured at a home located west of Decatur Blvd. which is just outside of our treatment area. The home, and the one located to the west of it, were treated with a handheld ULV fogger on 6/23. Door hangers were placed on all homes within the community as well. EH staff will conduct more extensive trapping in this new area beginning 6/26. A determination regarding potential treatment options will be made once we have the additional data.

Since the identification of the *Ae. aegypti*, SNHD has set a combined total of 254 mosquito traps throughout the community and identified 23 female and 4 male *Ae. aegypti* mosquitoes; all samples negative or pending results for Zika virus. Control interventions included larvicide treatment of four (4) active breeding sources, handheld ULV fogging at 16 residences, community ULV fogging on 6/9 and 6/17. Additionally, mosquito breeding and bite prevention door hangers were placed throughout the affected communities.

MOSQUITO SAMPLING 2017

Total Mosquitoes Submitted	Total Pools Submitted	Total SLEV + Pooled Submissions	Total SLEV + Mosquitoes in Pooled Samples	Zip Codes identified with SLEV
22,193	1091	1	50	1

Total Mosquitoes Submitted	Total Pools Submitted	Total WNV + Pooled Submissions	Total WNV + Mosquitoes in Pooled Samples	Zip Codes identified with WNV
22,193	1091	5	136	4

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.