

12AUG2019

**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. SNHD 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. OEDS sporadically investigates travel associated cases of Dengue, Chikungunya, and Zika virus.

Reported Zika cases in Clark Co., NV by year

InfectionType	Year2017	Year2018	Year2019
Non-Travel Related Infections of Zika	1	.	.
Travel-Related Infections of Zika	1	.	.

ACTIVE WNV or SLEV INVESTIGATIONS

OEDS currently has fifteen active WNV investigations. In 2019, OEDS has conducted seventeen WNV investigations.

Event Onset	Type of Disease	Positive Test Type	PRNT Result
13APR2019	WNV-neuroinvasive	IgM	
16JUN2019	WNV-neuroinvasive	IgM	
01JUL2019	WNV-Non neuroinvasive	IgM	
10JUL2019	WNV-neuroinvasive	IgM	
19JUL2019	WNV-Non neuroinvasive	IgM	
16JUL2019	WNV-neuroinvasive	IgM	
15JUL2019	WNV-neuroinvasive	IgM	
08JUL2019	WNV-neuroinvasive	IgM	
21JUL2019	WNV-neuroinvasive	IgM	
21JUL2019	WNV-neuroinvasive	IgM	
18JUL2019	WNV-neuroinvasive	IgM	
30JUL2019	WNV-neuroinvasive	IgM	
17JUL2019	WNV-neuroinvasive	IgM	
21JUL2019	WNV-Non neuroinvasive	Nucleic acid test	
26JUL2019	WNV-Non neuroinvasive	Nucleic acid test	
30JUL2019	WNV-Non neuroinvasive	Nucleic acid test	

Event Onset	Type of Disease	Positive Test Type	PRNT Result
20JUL2019	WNV-Non neuroinvasive	IgM	

MOSQUITO SURVEILLANCE

In 2019, SNHD Environmental Health has set 1,876 traps throughout Clark County and submitted 1,617 testing pools, representing 37,503 mosquitoes, to the Southern Nevada Public Health Lab (SNPHL) for arboviral analysis.

WNV MOSQUITO IDENTIFIED ZIP CODES

89002, 89005, 89014, 89021, 89027, 89030, 89031, 89032, 89035, 89040, 89052, 89074, 89084, 89085, 89101, 89102, 89106, 89107, 89108, 89110, 89113, 89117, 89118, 89120, 89122, 89123, 89128, 89129, 89131, 89134, 89135, 89138, 89139, 89141, 89143, 89146, 89149, 89166, 89178.

SLEV MOSQUITO IDENTIFIED ZIP CODES

89014, 89030, 89032, 89102, 89106, 89107, 89113, 89117, 89123, 89128, 89129, 89131, 89134, 89135, 89149.

MOSQUITO SAMPLING 2019

Total Mosquitoes Submitted	Total Pools Submitted	Total SLEV + Pooled Submissions	Total SLEV + Mosquitoes in Pooled Samples	Zip Codes identified with SLEV
37,503	1,617	30	604	15

Total Mosquitoes Submitted	Total Pools Submitted	Total WNV + Pooled Submissions	Total WNV + Mosquitoes in Pooled Samples	Zip Codes identified with WNV
37,503	1,617	230	7,045	39

Total Mosquitoes Submitted	Total Pools Submitted	Total WEE + Pooled Submissions	Total WEE + Mosquitoes in Pooled Samples	Zip Codes identified with WEE
37,503	1,617	.	.	.

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.