



## MOSQUITO and VECTOR MANAGEMENT DISTRICT of SANTA BARBARA COUNTY

# DISEASE SURVEILLANCE REPORT

April 2021

### Live Mosquito-Borne Virus Surveillance

Longer days and overnight low temperatures consistently above 50°F are expected to increase mosquito activity. Though a significant number of mosquitoes may be caught during a survey, not all mosquito species are known to vector diseases, so pools are not submitted for testing.

Location	Date	Number of Mosquitoes	Type of Trap	# of Traps	Mosquitoes per Trap Night	Pools Submitted	WSW Virus Test Result
<b>Santa Barbara County</b>							
UCSB/SBAir bluffs	4/10-4/11	207	EVS	6	34.5	0	
UCSB/SBAir bluffs	4/10-4/11	103	BGP	1	103	0	
El Estero	4/15-4/16	5	EVS	6	0.83	0	
El Estero	4/15-4/16	0	BGP	1	0	0	
Bird Refuge	4/15-4/16	1	EVS	6	0.16	0	
Bird Refuge	4/15-4/16	0	BGP	1	0	0	
Crescent Dr.	3/29-4/20	9*	BGP	1	0.45	0	
Crescent Dr.	4/15-4/20	0	BGS2	1	0	0	
Orella St.	4/8-4/28	1	BGS1	1	0.05	0	
MVMD SumInd.	4/8-4/28	1	BGS1	1	0.05	0	
<b>San Luis Obispo County</b>							
Oceano	4/22-4/23	218	EVS	6	36.3	4	pending
Oceano	4/22-4/23	7	BGP	1	7	0	
North Beach Campground	4/22-4/23	115	EVS	3	38.3	1	pending
Chumash Park	4/22-4/23	119	EVS	3	39.7	2	pending
Pismo Golf Course	4/22-4/23	33	EVS	3	11	2	pending

BGS2=Biogents Sentinel 2

EVS=encephalitis surveillance trap (CO<sup>2</sup>)

WSW=WNV, SLEV, AND WEE

\**Aedes aegypti* present

BGP=Biogents Pro

### California Arbovirus Bulletin

The California Department of Public Health, Vector Borne Disease Section, produced its first Arbovirus Surveillance Bulletin of the year on April 30<sup>th</sup>. No West Nile virus, St. Louis encephalitis virus, or Western equine encephalitis virus activity was reported.

### West Nile Virus Activity

No West Nile virus activity has been reported by the CDPH in 2021. One goldfinch that was found dead in Goleta was tested in April; the result was negative. Six other dead birds in Santa Barbara County were reported to the WNV hotline but were not accepted for testing.

### Sentinel Chicken Flocks

The District currently maintains four sentinel chicken flocks in Santa Barbara County located at the Goleta Sanitary District, Mission Hills Community Services District, the Solvang City Wastewater Treatment Plant, and the U.S. Forest Service Fire Station near Carpinteria. Chickens for the 2021-2022 season were picked-up from Modesto on April 15. All tested negative after sampling April 26.

### Zika Virus and Invasive *Aedes* Mosquito Update

Four *Aedes aegypti* mosquitoes were collected in Santa Barbara County in April. Three were in the N. Hope avenue area, and one was submitted by a resident in the West side area; the District has previously documented *Aedes aegypti* in both of these areas.

There were no Zika virus infections reported in California in April 2021.

### Tick Surveillance

Date	Location	Western Black-Legged Tick	Pacific Coast Tick
4/10/2021	Toro Canyon Park	5 female, 7 male	46 Female, 31 male

## BG-Pro

All Your Needs in One

The new trap for professionals



EVS-style



CDC-style



Sentinel-style

### Biogenes BG-Pro Mosquito Trap

The District has four of these versatile traps. Carbon dioxide (dry ice), the BG human skin lure (for invasive *Aedes*), or both, can be used as attractants. An LED light is included, which can also be used with the BG Sentinel traps. They require less electricity than the BG Sentinel traps, running on 5-volt USB power banks. If power runs out, the top closes to keep the insects inside. So far, we have found that they are noisier than the BG Sentinel traps (they sound similar to a hybrid or electric Toyota), so they are better suited for use farther away from public areas and because they are more attractive to thieves or tampering by people. Slightly more non-target insects are caught, like moths and crane flies, probably because the LED light is very bright. Mosquitoes are caught in better condition than with our EVS traps because the fan pulls them in from below the catch net, rather than pulling insects down through the fan and into the net.