# California Arbovirus Surveillance Bulletin #3

Week 17 Friday, April 28, 2023



### Humans

No human infections have been reported in 2023.

### **Dead Birds**

No new West Nile virus (WNV) positives were reported this week. In 2023, 1 WNV positive bird has been reported in 1 county. At this time last year, no dead birds had been reported positive.

### **Mosquito Pools**

No new WNV positives were reported this week. In 2023, 2 WNV positive mosquito pools have been reported from 2 counties. At this time last year, 2 WNV positive mosquito pools had been reported from 2 counties.

### **Sentinel Chickens**

No seroconversions have been reported in 2023.

2022 & 2023 YTD West Nile Virus Comparisons					
	2022	2023			
Total No. Dead Bird Reports	866	1,117			
No. Positive Counties	2	3			
No. Human Cases	0	0			
No. Positive Dead Birds / No. Tested	0 / 116	1 / 66			
No. Positive Mosquito Pools / No. Tested	2 / 2,242	2 / 1,974			
No. Seroconversions / No. Tested	0 / 65	0 / 0			

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YTD WNV Activity by Element and County, 2023					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda				1	
Los Angeles				1	
Santa Clara			1		
Totals			1	2	

# **TESTING SUMMARIES**

		WNV	SLEV	WEEV	
Human Cases	Week	0	0	0	
	YTD	0	0	0	

		Positive / Total Tested					
		WNV	SLEV	WEEV	СНІК	DENV	ZIKA
Dead Birds	Week	0 / 18					
	YTD	1 / 66					
Chicken Sera	Week	0 / 0	0 / 0	0 / 0			
	YTD	0 / 0	0 / 0	0 / 0			
Mosquito Pools	Week	0 / 569	0 / 569	0 / 569	0 / 0	0/0	0 / 0
	YTD	2 / 1,974	0 / 1,973	0 / 1,973	0 / 4	0 / 4	0 / 4

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# **TEST PROTOCOLS**

#### **Humans:**

Specimens are tested by local laboratories with an IgM or IgG immunofluorescent assay (IFA) and/or an IgM enzyme immunoassay (EIA). Specimens with inconclusive results are forwarded to the California Department of Public Health Viral and Rickettsial Disease Laboratory (VRDL) for further testing with a plaque reduction neutralization test (PRNT).

#### **Dead Birds**

Oral swab samples collected from bird carcasses are tested at the UC Davis Arbovirus Research and Training laboratory (DART) or at a local agency for West Nile virus by RT-qPCR.

#### **Sentinel Chickens:**

Dried blood spot samples from sentinel chickens are tested at the California Department of Public Health Vector-Borne Disease Laboratory for IgG antibodies to West Nile, St. Louis encephalitis, and western equine encephalomyelitis viruses by an EIA. Positive samples are confirmed by IFA, western-blot, or PRNT.

#### **Mosquito Pools:**

Mosquito pools are tested at DART or at a local agency for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a multiplex RT-qPCR. Invasive *Aedes* mosquitoes (*Ae. aegypti* and *Ae. albopictus*) are also tested at DART for chikungunya, dengue, and Zika viral RNA by a separate RT-qPCR.

Website Information: For updated information on WNV in California, please visit the California WNV website, <u>https://westnile.ca.gov</u>, or the California Vector-Borne Disease Surveillance System website, <u>https://maps.vectorsurv.org</u>.

Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch), California Department of Public Health, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Hannah Romo: <u>Hannah.romo@cdph.ca.gov</u>