## California Arbovirus Surveillance Bulletin #6

Week 20 Friday, May 19, 2023



#### Humans

No human infections have been reported in 2023.

### **Dead Birds**

Two new West Nile virus (WNV) positive dead birds were reported this week from Sacramento County. **This is the first detection of WNV activity in Sacramento County this year**. In 2023, 5 WNV positive dead birds have been reported in 2 counties. At this time last year, 1 WNV positive dead bird had been reported from one county.

### **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, 3 WNV positive mosquito pools had been reported from 3 counties.

### **Sentinel Chickens**

No seroconversions have been reported in 2023.

2022 & 2023 YTD West Nile Virus Comparisons						
	2022	2023				
Total No. Dead Bird Reports	1,347	1,496				
No. Positive Counties	4	4				
No. Human Cases	0	0				
No. Positive Dead Birds / No. Tested	1 / 263	5 / 218				
No. Positive Mosquito Pools / No. Tested	3 / 4,443	2 / 4,264				
No. Seroconversions / No. Tested	0 / 314	0 / 294				

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YTD WNV Activity by Element and County, 2023							
County	County Humans Horses Dead Birds Mosquito Pools		Sentinel Chickens				
Alameda				1			
Los Angeles				1			
Sacramento			2				
Santa Clara			3				
Totals			5	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	2 / 73					
	YTD	5 / 218					
Chicken Sera	Week	0 / 283	0 / 283	0 / 283			
	YTD	0 / 294	0 / 294	0 / 294			
Mosquito Pools	Week	0 / 1,156	0 / 1,156	0 / 1,156	0/0	0 / 0	0 / 0
	YTD	2 / 4,264	0 / 4,263	0 / 4,263	0 / 51	0 / 51	0 / 51

# **NEW POSITIVES**

### **Dead Birds**

County	Agency	City	Zip Code	Species	Date Reported	Virus
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	California Scrub-Jay	5/13/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	California Scrub-Jay	5/13/2023	WNV

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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>.

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