

## California Arbovirus Surveillance Bulletin #4

Week 18 Friday, May 5, 2023



### WEEKLY UPDATE

#### Humans

No human infections have been reported in 2023.

#### Dead Birds

One new West Nile virus (WNV) positive dead bird was reported this week from Santa Clara County. In 2023, 2 WNV positive dead birds have 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, 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	1,016	1,195
No. Positive Counties	3	3
No. Human Cases	0	0
No. Positive Dead Birds / No. Tested	0 / 128	2 / 110
No. Positive Mosquito Pools / No. Tested	3 / 2,915	2 / 2,530
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			2		
<b>Totals</b>			<b>2</b>	<b>2</b>	

### TESTING SUMMARIES

		WNV	SLEV	WEEV
<b>Human Cases</b>	Week	0	0	0
	YTD	0	0	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
<b>Dead Birds</b>	Week	2 / 110					
	YTD	1 / 44					
<b>Chicken Sera</b>	Week	0 / 0	0 / 0	0 / 0			
	YTD	0 / 0	0 / 0	0 / 0			
<b>Mosquito Pools</b>	Week	0 / 556	0 / 556	0 / 556	0 / 47	0 / 47	0 / 47
	YTD	2 / 2,530	0 / 2,529	0 / 2,529	0 / 51	0 / 51	0 / 51

### NEW POSITIVES

#### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	5/3/2023	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).

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#### **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.

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#### **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.

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#### **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.

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

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