# California Arbovirus Surveillance Bulletin #7

Week 21 Friday, May 26, 2023



### Humans

No human infections have been reported in 2023.

## **Dead Birds**

A total of 5 new West Nile virus (WNV) positive dead birds were reported this week from 2 counties: Riverside (1), and Santa Clara (4). **This is the first detection of WNV activity in Riverside County this year**. In 2023, 10 WNV positive dead birds have been reported in 3 counties. At this time last year, 1 WNV positive dead bird had been reported from one county.

## **Mosquito Pools**

A single new WNV positive mosquito pool was reported this week from Tulare County (1). **This is the first detection of WNV activity in Tulare County this year**. In 2023, 3 WNV positive mosquito pools have been reported from 3 counties. At this time last year, 5 WNV positive mosquito pools had been reported from 4 counties.

## **Sentinel Chickens**

No seroconversions have been reported in 2023.

2022 & 2023 YTD West Nile Virus Comparisons								
2022 2023								
Total No. Dead Bird Reports	1,582	1,649						
No. Positive Counties	5	6						
No. Human Cases	0	0						
No. Positive Dead Birds / No. Tested	1 / 307	10 / 271						
No. Positive Mosquito Pools / No. Tested	5 / 5,432	3 / 6,142						
No. Seroconversions / No. Tested	0 / 567	0 / 440						

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YTD WNV Activity by Element and County, 2023								
County Humans Horses Dead Birds Mosquito Pools Sentinel Ch								
Alameda				1				
Los Angeles				1				
Riverside			1					
Sacramento			2					
Santa Clara			7					
Tulare				1				
Totals			10	3				

# **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	5 / 53					
Dead Birds	YTD	10 / 271					
	Week	0 / 146	0 / 146	0 / 146			
Chicken Sera	YTD	0 / 440	0 / 440	0 / 440			
Mosquito Pools	Week	1 / 1,878	0 / 1,878	0 / 1,878	0 / 0	0 / 0	0 / 0
	YTD	3 / 6,142	0 / 6,141	0 / 6,141	0 / 51	0 / 51	0 / 51

# **NEW POSITIVES**

Dead Birds						
County	Agency	City	Zip Code	Species	Date Reported	Virus
Riverside	Northwest Mosquito VCD	Corona	92881	American Crow	5/8/2023	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	5/23/2023	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95120	American Crow	5/24/2023	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95051	American Crow	5/19/2023	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95050	American Crow	5/22/2023	WNV

# **Mosquito Pools**

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus
Tulare	DLTA 8534	590	Cx. quinquefasciatus	Visalia	31	BGSENT	5/17/23	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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