## California Arbovirus Surveillance Bulletin #4

Week 18 Friday, May 3, 2024



#### **Humans**

No human infections have been reported in 2024.

## **Dead Birds**

No new West Nile virus (WNV) positive dead birds were reported this week. In 2024, 14 WNV positive dead birds have been reported in 5 counties. At this time last year, 2 WNV positive dead birds had been reported from 1 county.

# **Mosquito Pools**

No new WNV positive mosquito pools were reported this week. In 2024, 1 WNV positive mosquito pools has been reported from 1 county. At this time last year, 2 WNV positive mosquito pools had been reported from 2 counties.

#### **Sentinel Chickens**

No seroconversions have been reported in 2024.

2023 & 2024 YTD West Nile Virus Comparisons				
	2023	2024		
Total No. Dead Bird Reports	1,195	1,020		
No. Positive Counties	3	5		
No. Human Cases	0	0		
No. Positive Dead Birds / No. Tested	2 / 110	14 / 132		
No. Positive Mosquito Pools / No. Tested	2 / 2,530	1 / 3,246		
No. Seroconversions / No. Tested	0/0	0/8		

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YTD WNV Activity by Element and County, 2024					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			5	1	
Contra Costa			1		
San Diego			2		
San Mateo			3		
Santa Clara			3		
Totals			14	1	

# **TESTING SUMMARIES**

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

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Dead Birds	Week	0 / 28					
	YTD	14 / 132					
Chicken Sera	Week	0/0	0/0	0/0			
	YTD	0/8	0/8	0/8			
Mosquito Pools	Week	0 / 534	0 / 534	0 / 534	0/0	0/0	0/0
	YTD	1 / 3,246	0 / 3,149	0 / 3,149	0 / 94	0 / 94	0 / 94

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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, <a href="https://westnile.ca.gov">https://westnile.ca.gov</a>, or the California Vector-Borne Disease Surveillance System website, <a href="https://maps.vectorsurv.org">https://maps.vectorsurv.org</a>.

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: <a href="mailto:Hannah.Romo@cdph.ca.gov">Hannah.Romo@cdph.ca.gov</a>