

## California Arbovirus Surveillance Bulletin #7

Week 21 Friday, May 24, 2024



### WEEKLY UPDATE

#### 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, 15 WNV positive dead birds have been reported from 5 counties. At this time last year, 10 WNV positive dead birds had been reported from 3 counties.

#### Mosquito Pools

##### West Nile virus

A total of 3 new WNV positive mosquito pools were reported from 2 counties: Fresno (1) and Riverside (2). **This is the first detection of WNV activity in Fresno County this year.** In 2024, 12 WNV positive mosquito pools have been reported from 5 counties. At this time last year, 3 WNV positive mosquito pools had been reported from 3 counties.

##### St. Louis encephalitis virus

A single (1) new St. Louis encephalitis virus (SLEV) positive mosquito pool was reported this week from 1 county: Fresno (1). **This is the first detection of SLEV activity in Fresno County this year.** In 2024, 1 SLEV positive mosquito pool has been reported from 1 county. At this time last year, no SLEV positive mosquito pools had been reported.

#### Sentinel Chickens

No seroconversions have been reported in 2024.

2023 & 2024 YTD West Nile Virus Comparisons		
	2023	2024
Total No. Dead Bird Reports	1,649	1,656
No. Positive Counties	6	8
No. Human Cases	0	0
No. Positive Dead Birds / No. Tested	10 / 271	15 / 315
No. Positive Mosquito Pools / No. Tested	3 / 6,142	12 / 6,055
No. Seroconversions / No. Tested	0 / 440	0 / 334

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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		
Fresno				1	
Los Angeles				1	
Riverside				7	
San Diego			2		
San Mateo			4		
Santa Clara			3	2	
<b>Totals</b>			<b>15</b>	<b>12</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	0 / 103					
	YTD	15 / 315					
<b>Chicken Sera</b>	Week	0 / 181	0 / 181	0 / 181			
	YTD	0 / 334	0 / 334	0 / 334			
<b>Mosquito Pools</b>	Week	3 / 1,304	1 / 1,304	0 / 1,304	0 / 0	0 / 0	0 / 0
	YTD	12 / 6,055	1 / 5,956	0 / 5,956	0 / 95	0 / 95	0 / 95

### POSITIVES

#### Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Fresno	CNSL 1838	409	Cx quinquefasciatus	Fresno	50	GRVD	5/14/2024	SLEV
Fresno	FRNO 38	212	Cx quinquefasciatus	Fresno	50	GRVD	5/22/2024	WNV
Riverside	COAV 54	2419	Cx tarsalis	North Shore	50	CO2	5/21/2024	WNV
Riverside	COAV 58	2398	Cx tarsalis	North Shore	50	CO2	5/23/2024	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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