

## California Arbovirus Surveillance Bulletin #6

Week 20 Friday, May 17, 2024



### WEEKLY UPDATE

#### Humans

No human infections have been reported in 2024.

#### Dead Birds

A single (1) new West Nile virus (WNV) positive dead bird was reported this week from 1 county: San Mateo (1). In 2024, 15 WNV positive dead birds have been reported from 5 counties. At this time last year, 5 WNV positive dead birds had been reported from 2 counties.

#### Mosquito Pools

A total of 6 new WNV positive mosquito pools were identified from 2 counties: Riverside (4) and Santa Clara (2). **These are the first WNV positive mosquito pools reported in Santa Clara County this year.** In 2024, 9 WNV positive mosquito pools have been reported from 4 counties. 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	1,496	1,397
No. Positive Counties	4	7
No. Human Cases	0	0
No. Positive Dead Birds / No. Tested	5 / 218	15 / 212
No. Positive Mosquito Pools / No. Tested	2 / 4,264	9 / 4,751
No. Seroconversions / No. Tested	0 / 294	0 / 153

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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		
Los Angeles				1	
Riverside				5	
San Diego			2		
San Mateo			4		
Santa Clara			3	2	
Totals			15	9	

### 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	1 / 53					
	YTD	15 / 212					
Chicken Sera	Week	0 / 104	0 / 104	0 / 104			
	YTD	0 / 153	0 / 153	0 / 153			
Mosquito Pools	Week	6 / 772	0 / 770	0 / 770	0 / 1	0 / 1	0 / 1
	YTD	9 / 4,751	0 / 4,652	0 / 4,652	0 / 95	0 / 95	0 / 95

### POSITIVES

#### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
San Mateo	San Mateo Co MVCD	Menlo Park	94025	American Crow	5/9/2024	WNV

#### Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Riverside	COAV 34	2123	Cx tarsalis	Mecca	50	CO2	5/14/2024	WNV
Riverside	COAV 35	2261	Cx tarsalis	Mecca	50	CO2	5/16/2024	WNV
Riverside	COAV 37	2062	Cx tarsalis	Mecca	50	CO2	5/14/2024	WNV
Riverside	COAV 605	2102	Cx quinquefasciatus	Indio	39	GRVD	5/14/2024	WNV
Santa Clara	STCL 30380	867	Cx tarsalis	Gilroy	22	GRVD	5/15/2024	WNV
Santa Clara	STCL 30380	868	Cx pipiens	Gilroy	25	GRVD	5/15/2024	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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