Week 23 Friday, June 7, 2024



### Humans

No human infections have been reported in 2024.

## **Dead Birds**

A total of 2 new West Nile virus (WNV) positive dead birds were reported from 2 counties: Sacramento (1) and San Joaquin (1). **These are the first detections of WNV activity in Sacramento County and San Joaquin County this year.** In 2024, 19 WNV positive dead birds have been reported from 7 counties. At this time last year, 16 WNV positive dead birds had been reported from 5 counties.

### **Mosquito Pools**

### West Nile virus

A total of 27 new WNV positive mosquito pools were reported from 1 county: Riverside (27). In 2024, 52 WNV positive mosquito pools have been reported from 6 counties. At this time last year, 15 WNV positive mosquito pools had been reported from 7 counties.

## St. Louis encephalitis virus

A single (1) new St. Louis encephalitis virus (SLEV) positive mosquito pool was reported from 1 county: Fresno (1). In 2024, 2 SLEV positive mosquito pools have been reported from 1 county: Fresno (2). At this time last year, 2 SLEV 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	1,993	2,139				
No. Positive Counties	9	11				
No. Human Cases	0	0				
No. Positive Dead Birds / No. Tested	16 / 350	19 / 446				
No. Positive Mosquito Pools / No. Tested	15 / 9,380	52 / 11,083				
No. Seroconversions / No. Tested	0 / 715	0 / 752				

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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				2			
Los Angeles				1			
Riverside				45			
Sacramento			1				
San Diego			2				
San Joaquin			1				
San Mateo			4				
Santa Clara			5	2			
Stanislaus				1			
Totals			19	52			

# **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	2 / 77					
	YTD	19 / 446					
Chicken Sera	Week	0 / 189	0 / 189	0 / 189			
	YTD	0 / 752	0 / 752	0 / 752			
Mosquito Pools	Week	27 / 1,331	1 / 1,331	0 / 1,331	0 / 1	0/1	0 / 1
	YTD	52 / 11,084	2 / 10,486	0 / 10,486	0 / 111	0 / 111	0 / 111

# **POSITIVES**

# **Dead Birds**

County	Submitting Agency	City	Zip Code	Species	Date Reported	Status
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	5/31/2024	WNV
San Joaquin	San Joaquin Co MVCD	Lockeford	95237	Hummingbird	6/3/2024	WNV

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# **Mosquito Pools**

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Fresno	FRNO 8007	255	Cx quinquefasciatus	Fresno	50	GRVD	6/4/2024	SLEV
Riverside	COAV 0	3022	Cx tarsalis	Indio	50	CO2	6/6/2024	WNV
Riverside	COAV 0	3063	Cx tarsalis	Indio	50	CO2	6/6/2024	WNV
Riverside	COAV 0	2795	Cx tarsalis	Indio	50	CO2	5/31/2024	WNV
Riverside	COAV 0	2853	Cx tarsalis	Indio	50	CO2	5/31/2024	WNV
Riverside	COAV 33	2847	Cx tarsalis	Thermal	50	CO2	5/31/2024	WNV
Riverside	COAV 33	2850	Cx tarsalis	Thermal	50	CO2	5/31/2024	WNV
Riverside	COAV 33	2851	Cx tarsalis	Thermal	26	CO2	5/31/2024	WNV
Riverside	COAV 121	3001	Cx tarsalis	Mecca	50	CO2	6/4/2024	WNV
Riverside	COAV 122	2969	Cx tarsalis	Mecca	50	CO2	6/4/2024	WNV
Riverside	COAV 123	2994	Cx tarsalis	Mecca	50	CO2	6/4/2024	WNV
Riverside	COAV 45	2887	Cx tarsalis	Mecca	50	CO2	6/4/2024	WNV
Riverside	COAV 45	2889	Cx tarsalis	Mecca	50	CO2	6/4/2024	WNV
Riverside	COAV 45	2890	Cx tarsalis	Mecca	50	CO2	6/4/2024	WNV
Riverside	COAV 45	2891	Cx tarsalis	Mecca	50	CO2	6/4/2024	WNV
Riverside	COAV 45	3067	Cx tarsalis	Mecca	50	CO2	6/6/2024	WNV
Riverside	COAV 46	2903	Cx tarsalis	Mecca	50	CO2	6/4/2024	WNV
Riverside	COAV 54	2897	Cx tarsalis	North Shore	50	CO2	6/4/2024	WNV
Riverside	COAV 54	2898	Cx tarsalis	North Shore	50	CO2	6/4/2024	WNV
Riverside	COAV 54	2899	Cx tarsalis	North Shore	50	CO2	6/4/2024	WNV
Riverside	COAV 54	2900	Cx tarsalis	North Shore	43	CO2	6/4/2024	WNV
Riverside	COAV 54	2901	Cx quinquefasciatus	North Shore	19	CO2	6/4/2024	WNV
Riverside	COAV 55	2964	Cx tarsalis	Mecca	50	CO2	6/4/2024	WNV
Riverside	COAV 55	2966	Cx tarsalis	Mecca	50	CO2	6/4/2024	WNV
Riverside	COAV 56	2991	Cx tarsalis	North Shore	50	CO2	6/4/2024	WNV
Riverside	COAV 57	2896	Cx tarsalis	North Shore	50	CO2	6/4/2024	WNV
Riverside	COAV 540	2628	Cx quinquefasciatus	Mecca	30	CO2	5/29/2024	WNV
Riverside	COAV 611	3020	Cx tarsalis	Mecca	17	CO2	6/6/2024	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).

#### **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, https://westnile.ca.gov, or the California Vector-Borne Disease Surveillance System website, https://maps.vectorsurv.org

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