

## California Arbovirus Surveillance Bulletin #12

Week 26 Friday, June 28, 2024



### WEEKLY UPDATE

#### Humans

No human infections have been reported in 2024.

#### Dead Birds

A total of 18 new West Nile virus (WNV) positive dead birds were reported from 4 counties: Alameda (5), Riverside (1), Sacramento (6), and Santa Clara (6). In 2024, 61 WNV positive dead birds have been reported from 10 counties. At this time last year, 51 WNV positive dead birds had been reported from 10 counties.

#### Mosquito Pools

##### West Nile virus

A total of 66 new WNV positive mosquito pools were reported from 11 counties: Alameda (2), Fresno (21), Imperial (1), Kern (2), Kings (3), Merced (1), Riverside (28), Sacramento (4), San Joaquin (2), Yolo (1), and Yuba (1). **These are the first detections of WNV activity for Kern, Kings, and Yuba counties and the first detections of WNV positive mosquito pools for San Joaquin and Yolo counties this year.** In 2024, 203 WNV positive mosquito pools have been reported from 14 counties. At this time last year, 148 WNV positive mosquito pools had been reported from 11 counties.

##### St. Louis encephalitis virus

A single (1) new St. Louis encephalitis virus (SLEV) positive mosquito pool was reported from 1 county: Imperial (1). **This is the first detection of SLEV activity in Imperial County this year.** In 2024, 9 SLEV positive mosquito pools have been reported from 3 counties: Fresno (6), Imperial (1), and Tulare (2). At this time last year, 24 SLEV positive mosquito pools had been reported from 4 counties.

#### Sentinel Chickens

No seroconversions have been reported in 2024.

2023 & 2024 YTD West Nile Virus Comparisons		
	2023	2024
Total No. Dead Bird Reports	2,580	2,973
No. Positive Counties	14	18
No. Human Cases	0	0
No. Positive Dead Birds / No. Tested	51 / 554	61 / 720
No. Positive Mosquito Pools / No. Tested	148 / 17,255	203 / 16,485
No. Seroconversions / No. Tested	0 / 1,260	0 / 1,356

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Week 26 Friday, June 28, 2024

YTD WNV Activity by Element and County, 2024					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			12	4	
Contra Costa			3		
Fresno				30	
Imperial				2	
Kern				2	
Kings				3	
Los Angeles				2	
Merced				2	
Riverside			1	141	
Sacramento			17	10	
San Bernardino			1		
San Diego			2		
San Joaquin			1	2	
San Mateo			5		
Santa Clara			18	2	
Stanislaus				1	
Yolo			1	1	
Yuba				1	
Totals	0	0	61	203	0

### 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	18 / 70					
	YTD	61 / 720					
Chicken Sera	Week	0 / 277	0 / 277	0 / 277			
	YTD	0 / 1,356	0 / 1,356	0 / 1,356			
Mosquito Pools	Week	66 / 1,469	1 / 1,467	0 / 1,467	0 / 0	0 / 0	0 / 0
	YTD	203 / 16,485	9 / 15,567	0 / 15,588	0 / 127	0 / 127	0 / 127

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Week 26 Friday, June 28, 2024

### POSITIVES

#### Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Fremont	94555	American Crow	6/20/2024	WNV
Alameda	Alameda Co MAD	Fremont	94536	American Crow	6/20/2024	WNV
Alameda	Alameda Co MAD	Union City	94587	American Crow	6/25/2024	WNV
Alameda	Alameda Co MAD	Newark	94560	American Crow	6/25/2024	WNV
Alameda	Alameda Co MAD	Union City	94587	American Crow	6/25/2024	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	Mallard	6/12/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	Swainson's Thrush	6/15/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	American Crow	6/19/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	California Scrub-Jay	6/20/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	American Crow	6/22/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	6/23/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	6/24/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	6/20/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95136	American Crow	6/20/2024	WNV
Santa Clara	Santa Clara Co VCD	Los Altos Hills	94022	Downy Woodpecker	6/20/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	6/20/2024	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	6/20/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95132	American Crow	6/21/2024	WNV

#### Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Alameda	ALCO 241151	32325	Cx tarsalis	Union City	45	CO2	6/21/2024	WNV
Alameda	ALCO 241151	32411	Cx pipiens	Union City	8	CO2	6/26/2024	WNV
Fresno	CNSL 1	805	Cx quinquefasciatus	Fresno	40	GRVD	6/21/2024	WNV
Fresno	CNSL 1	806	Cx quinquefasciatus	Fresno	20	GRVD	6/21/2024	WNV
Fresno	CNSL 1009	444	Cx quinquefasciatus	Clovis	49	GRVD	6/19/2024	WNV
Fresno	CNSL 1041	780	Cx quinquefasciatus	Fresno	50	GRVD	6/21/2024	WNV
Fresno	CNSL 1041	781	Cx quinquefasciatus	Fresno	50	GRVD	6/21/2024	WNV
Fresno	CNSL 1041	782	Cx quinquefasciatus	Fresno	50	GRVD	6/21/2024	WNV
Fresno	CNSL 1062	803	Cx quinquefasciatus	Fresno	42	GRVD	6/21/2024	WNV
Fresno	CNSL 1065	786	Cx quinquefasciatus	Fresno	45	GRVD	6/21/2024	WNV
Fresno	CNSL 1210	779	Cx quinquefasciatus	Fresno	21	GRVD	6/19/2024	WNV
Fresno	CNSL 1210	797	Cx quinquefasciatus	Fresno	50	GRVD	6/21/2024	WNV
Fresno	CNSL 1210	798	Cx quinquefasciatus	Fresno	50	GRVD	6/21/2024	WNV
Fresno	CNSL 1210	799	Cx quinquefasciatus	Fresno	50	GRVD	6/21/2024	WNV
Fresno	CNSL 1315	810	Cx quinquefasciatus	Fresno	50	GRVD	6/21/2024	WNV
Fresno	CNSL 1343	446	Cx quinquefasciatus	Fresno	50	GRVD	6/20/2024	WNV
Fresno	CNSL 1353	790	Cx quinquefasciatus	Fresno	50	GRVD	6/21/2024	WNV
Fresno	CNSL 1831	773	Cx quinquefasciatus	Fresno	24	GRVD	6/19/2024	WNV
Fresno	CNSL 2707	77	Cx quinquefasciatus	Fresno	50	GRVD	6/20/2024	WNV
Fresno	CNSL 8130	81	Cx quinquefasciatus	Clovis	34	GRVD	6/21/2024	WNV
Fresno	FRNO 7	339	Cx quinquefasciatus	Fresno	20	GRVD	6/26/2024	WNV
Fresno	FRNO 78	331	Cx quinquefasciatus	Fresno	36	GRVD	6/26/2024	WNV
Fresno	FRNO 88	336	Cx tarsalis	Fresno	26	BGSENT	6/26/2024	WNV
Imperial	IMPR 130	135	Cx quinquefasciatus	Imperial	9	BGSENT	6/25/2024	SLEV
Imperial	IMPR 233	136	Cx quinquefasciatus	Thermal	16	CO2	6/25/2024	WNV
Kern	DLNO 33	64	Cx tarsalis	Mcfarland	50	CO2	6/25/2024	WNV
Kern	KERN 44	173	Cx tarsalis	Shafter	38	CO2	6/18/2024	WNV
Kings	KNGS 3122	1	Cx tarsalis	Hanford	50	CO2	6/19/2024	WNV
Kings	KNGS 3127	6	Cx tarsalis	Corcoran	50	CO2	6/19/2024	WNV
Kings	KNGS 3127	8	Cx tarsalis	Corcoran	50	CO2	6/19/2024	WNV
Merced	MERC 1005	144	Cx tarsalis	Atwater	21	CO2	6/26/2024	WNV
Riverside	COAV 0	3597	Cx quinquefasciatus	Indio	50	BGSENT	6/27/2024	WNV
Riverside	COAV 0	3600	Cx quinquefasciatus	Indio	19	GRVD	6/27/2024	WNV

## California Arbovirus Surveillance Bulletin #12

Week 26 Friday, June 28, 2024

Riverside	COAV 0	3709	Cx quinquefasciatus	Indio	4	GRVD	6/27/2024	WNV
Riverside	COAV 10	3514	Cx tarsalis	Oasis	34	CO2	6/25/2024	WNV
Riverside	COAV 130	3550	Cx tarsalis	Oasis	50	CO2	6/25/2024	WNV
Riverside	COAV 130	3551	Cx tarsalis	Oasis	50	CO2	6/25/2024	WNV
Riverside	COAV 130	3552	Cx tarsalis	Oasis	38	CO2	6/25/2024	WNV
Riverside	COAV 131	3611	Cx tarsalis	Oasis	50	CO2	6/25/2024	WNV
Riverside	COAV 131	3612	Cx tarsalis	Oasis	50	CO2	6/25/2024	WNV
Riverside	COAV 131	3613	Cx tarsalis	Oasis	50	CO2	6/25/2024	WNV
Riverside	COAV 131	3614	Cx quinquefasciatus	Oasis	50	CO2	6/25/2024	WNV
Riverside	COAV 131	3615	Cx quinquefasciatus	Oasis	50	CO2	6/25/2024	WNV
Riverside	COAV 131	3616	Cx quinquefasciatus	Oasis	50	CO2	6/25/2024	WNV
Riverside	COAV 2	3605	Cx tarsalis	Oasis	17	CO2	6/25/2024	WNV
Riverside	COAV 2	3606	Cx quinquefasciatus	Oasis	37	CO2	6/25/2024	WNV
Riverside	COAV 30	3522	Cx quinquefasciatus	Thermal	50	CO2	6/25/2024	WNV
Riverside	COAV 30	3524	Cx quinquefasciatus	Thermal	50	CO2	6/25/2024	WNV
Riverside	COAV 5	3579	Cx tarsalis	Oasis	50	CO2	6/25/2024	WNV
Riverside	COAV 5	3580	Cx tarsalis	Oasis	50	CO2	6/25/2024	WNV
Riverside	COAV 5	3582	Cx tarsalis	Oasis	50	CO2	6/25/2024	WNV
Riverside	COAV 5	3583	Cx tarsalis	Oasis	50	CO2	6/25/2024	WNV
Riverside	COAV 5	3584	Cx quinquefasciatus	Oasis	50	CO2	6/25/2024	WNV
Riverside	COAV 5	3587	Cx quinquefasciatus	Oasis	46	CO2	6/25/2024	WNV
Riverside	COAV 6	3515	Cx tarsalis	Oasis	50	CO2	6/25/2024	WNV
Riverside	COAV 6	3518	Cx quinquefasciatus	Oasis	50	CO2	6/25/2024	WNV
Riverside	COAV 6	3521	Cx quinquefasciatus	Oasis	50	CO2	6/25/2024	WNV
Riverside	COAV 610	3511	Cx tarsalis	Oasis	29	CO2	6/25/2024	WNV
Riverside	COAV 763	3414	Cx quinquefasciatus	La Quinta	14	GRVD	6/25/2024	WNV
Sacramento	SAYO 184	1174	Cx pipiens	Sacramento	30	GRVD	6/25/2024	WNV
Sacramento	SAYO 222032	1214	Cx pipiens	Sacramento	50	GRVD	6/25/2024	WNV
Sacramento	SAYO 222064	1211	Cx pipiens	Sacramento	13	GRVD	6/25/2024	WNV
Sacramento	SAYO 422366	1237	Cx pipiens	Sacramento	4	CO2	6/25/2024	WNV
San Joaquin	SJCM 8076	579	Cx pipiens	Stockton	31	CO2	6/25/2024	WNV
San Joaquin	SJCM 8204	526	Cx tarsalis	Stockton	50	CO2	6/25/2024	WNV
Yolo	SAYO 103007	1197	Cx pipiens	Dunnigan	13	CO2	6/25/2024	WNV
Yuba	SUYA 8	52	Cx tarsalis	Marysville	27	CO2	6/25/2024	WNV

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Week 26 Friday, June 28, 2024

### 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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