

## California Arbovirus Surveillance Bulletin #14

Week 28 Friday, July 12, 2024



### WEEKLY UPDATE

#### **Humans**

##### West Nile virus

No human cases of West Nile virus (WNV) have been reported. Three asymptomatic WNV-positive blood donors have been reported from 1 county: Fresno (1). At this time last year, no human cases of WNV had been reported.

##### St. Louis encephalitis virus

No human cases of St. Louis encephalitis virus (SLEV) have been reported. At this time last year, 1 human case of SLEV had been reported from 1 county.

#### **Dead Birds**

A total of 10 new WNV positive dead birds were reported from 3 counties: Sacramento (2), San Bernardino (1), and Santa Clara (7). In 2024, 94 WNV positive dead birds have been reported from 10 counties. At this time last year, 90 WNV positive dead birds had been reported from 11 counties.

#### **Mosquito Pools**

##### West Nile virus

A total of 51 new WNV positive mosquito pools were reported from 12 counties: Fresno (16), Los Angeles (2), Madera (1), Placer (1), Riverside (16), Sacramento (1), San Joaquin (7), Shasta (1), Stanislaus (1), Tulare (1), Yolo (2), and Yuba (2). **This is the first detection of WNV activity in Madera, Placer, and Shasta counties this year.** In 2024, 320 WNV positive mosquito pools have been reported from 20 counties. At this time last year, 533 WNV positive mosquito pools had been reported from 19 counties.

##### St. Louis encephalitis virus

A single (1) new SLEV positive mosquito pool was reported from 1 county: Fresno (1). In 2024, 11 SLEV positive mosquito pools have been reported from 3 counties: Fresno (7), Imperial (1), and Tulare (3). At this time last year, 83 SLEV positive mosquito pools had been reported from 5 counties.

#### **Sentinel Chickens**

No seroconversions have been reported in 2024.

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<b>2023 &amp; 2024 YTD West Nile Virus Comparisons</b>		
	<b>2023</b>	<b>2024</b>
Total No. Dead Bird Reports	2,985	3,387
No. Positive Counties	21	23
No. Human Cases	0	0
No. Positive Dead Birds / No. Tested	90 / 676	94 / 844
No. Positive Mosquito Pools / No. Tested	533 / 22,032	320 / 20,567
No. Seroconversions / No. Tested	0 / 1,578	0 / 1,733

<b>YTD WNV Activity by Element and County, 2024</b>					
<b>County</b>	<b>Humans</b>	<b>Horses</b>	<b>Dead Birds</b>	<b>Mosquito Pools</b>	<b>Sentinel Chickens</b>
Alameda			13	4	
Contra Costa			3		
Fresno				72	
Imperial				2	
Kern				2	
Kings				4	
Los Angeles				6	
Madera				1	
Merced				3	
Orange				1	
Placer				1	
Riverside			1	173	
Sacramento			25	15	
San Bernardino			3	5	
San Diego			2		
San Joaquin			3	11	
San Mateo			5		
Santa Clara			38	2	
Shasta				1	
Stanislaus				6	
Tulare				3	
Yolo			1	5	
Yuba				3	
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>94</b>	<b>320</b>	<b>0</b>

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### 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	10 / 53
	YTD	94 / 844

<b>Chicken Sera</b>	Week	0 / 235	0 / 235	0 / 235
	YTD	0 / 1,733	0 / 1,733	0 / 1,733

<b>Mosquito Pools</b>	Week	51 / 1,440	1 / 1,440	0 / 1,440	0 / 0	0 / 0	0 / 0
	YTD	320 / 20,567	11 / 19,321	0 / 19,342	0 / 145	0 / 145	0 / 145

### POSITIVES

#### Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	California Scrub-Jay	7/8/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	California Scrub-Jay	7/8/2024	WNV
San Bernardino	West Valley MVCD	Chino	91710	American Crow	7/11/2024	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	6/22/2024	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	6/23/2024	WNV
Santa Clara	Santa Clara Co VCD	Mountain View	94043	American Crow	6/25/2024	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	7/5/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	7/5/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95136	American Crow	7/6/2024	WNV
Santa Clara	Santa Clara Co VCD	Mountain View	94043	American Crow	7/10/2024	WNV

#### Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Fresno	CNSL 1177	855	Cx quinquefasciatus	Clovis	50	GRVD	7/2/2024	WNV
Fresno	CNSL 1210	851	Cx quinquefasciatus	Fresno	50	GRVD	7/2/2024	WNV
Fresno	CNSL 1315	860	Cx quinquefasciatus	Fresno	23	GRVD	7/2/2024	WNV
Fresno	CNSL 1353	847	Cx quinquefasciatus	Fresno	48	GRVD	7/2/2024	WNV
Fresno	CNSL 1353	849	Cx tarsalis	Fresno	15	GRVD	7/2/2024	WNV
Fresno	CNSL 1365	468	Cx quinquefasciatus	Clovis	45	GRVD	7/2/2024	WNV
Fresno	CNSL 1365	468	Cx quinquefasciatus	Clovis	45	GRVD	7/2/2024	SLEV
Fresno	CNSL 1972	112	Cx quinquefasciatus	Clovis	50	GRVD	7/2/2024	WNV
Fresno	CNSL 5039	114	Cx quinquefasciatus	Kingsburg	50	GRVD	7/3/2024	WNV
Fresno	CNSL 8232	467	Cx quinquefasciatus	Sanger	50	GRVD	7/2/2024	WNV
Fresno	FRNO 238	352	Cx quinquefasciatus	Fresno	50	GRVD	7/2/2024	WNV
Fresno	FRNO 270	350	Cx quinquefasciatus	Fresno	50	GRVD	7/2/2024	WNV

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Fresno	FRNO 38	355	Cx quinquefasciatus	Fresno	50	GRVD	7/2/2024	WNV
Fresno	FRNO 69	358	Cx quinquefasciatus	Fresno	30	GRVD	7/2/2024	WNV
Fresno	FRNO 8007	356	Cx quinquefasciatus	Fresno	50	GRVD	7/2/2024	WNV
Fresno	FRNO 87	354	Cx quinquefasciatus	Fresno	12	GRVD	7/2/2024	WNV
Fresno	FRNO 94	359	Cx quinquefasciatus	Fresno	18	GRVD	7/2/2024	WNV
Los Angeles	GRLA 2414	5514	Cx quinquefasciatus	Granada Hills	50	GRVD	7/3/2024	WNV
Los Angeles	SGVA 860	383	Cx quinquefasciatus	Baldwin Park	50	GRVD	7/11/2024	WNV
Madera	MADR 715	143	Cx tarsalis	Madera	50	CO2	7/3/2024	WNV
Placer	PLCR 17	609	Cx tarsalis	Sheridan	50	CO2	7/10/2024	WNV
Riverside	COAV 0	3873	Cx tarsalis	Indio	9	CO2	7/11/2024	WNV
Riverside	COAV 0	3875	Cx tarsalis	Indio	6	CO2	7/11/2024	WNV
Riverside	COAV 0	3880	Cx quinquefasciatus	Indio	47	CO2	7/11/2024	WNV
Riverside	COAV 0	3884	Cx quinquefasciatus	Indio	50	CO2	7/11/2024	WNV
Riverside	COAV 0	4008	Cx quinquefasciatus	Indio	50	BGSENT	7/12/2024	WNV
Riverside	COAV 0	4009	Cx quinquefasciatus	Indio	18	BGSENT	7/12/2024	WNV
Riverside	COAV 0	4010	Cx tarsalis	Indio	50	BGSENT	7/12/2024	WNV
Riverside	COAV 0	4015	Cx tarsalis	Indio	15	BGSENT	7/12/2024	WNV
Riverside	COAV 2	3860	Cx tarsalis	Oasis	9	CO2	7/9/2024	WNV
Riverside	COAV 34	3749	Cx tarsalis	Mecca	5	CO2	7/9/2024	WNV
Riverside	COAV 420	3733	Cx quinquefasciatus	La Quinta	31	BGSENT	7/9/2024	WNV
Riverside	COAV 541	3881	Cx tarsalis	Mecca	2	CO2	7/11/2024	WNV
Riverside	COAV 541	3908	Cx tarsalis	Mecca	10	CO2	7/9/2024	WNV
Riverside	COAV 763	4007	Cx tarsalis	La Quinta	2	BGSENT	7/12/2024	WNV
Riverside	COAV 774	3735	Cx quinquefasciatus	Indio	26	BGSENT	7/9/2024	WNV
Riverside	COAV 778	3729	Cx quinquefasciatus	La Quinta	50	BGSENT	7/9/2024	WNV
Sacramento	SAYO 233078	1835	Cx tarsalis	Sacramento	5	CO2	7/9/2024	WNV
San Joaquin	SJCM 8008	818	Cx tarsalis	Manteca	50	FAYPRINCE	7/9/2024	WNV
San Joaquin	SJCM 8018	854	Cx tarsalis	Stockton	100	CO2	7/9/2024	WNV
San Joaquin	SJCM 8076	746	Cx tarsalis	Stockton	50	CO2	7/9/2024	WNV
San Joaquin	SJCM 8076	747	Cx tarsalis	Stockton	50	CO2	7/9/2024	WNV
San Joaquin	SJCM 8076	752	Cx tarsalis	Stockton	50	CO2	7/9/2024	WNV
San Joaquin	SJCM 8094	830	Cx tarsalis	Manteca	18	CO2	7/9/2024	WNV
San Joaquin	SJCM 8111	839	Cx tarsalis	Stockton	36	CO2	7/9/2024	WNV
Shasta	SHAS 20050	299	Cx pipiens	Shingletown	50	CO2	7/10/2024	WNV
Stanislaus	EAST 2016	24036	Cx pipiens	Oakdale	15	BGSENT	7/3/2024	WNV
Tulare	DLTA 633024	2118	Cx stigmatosoma	Kingsburg	25	CO2	7/9/2024	WNV
Yolo	SAYO 135020	1705	Cx tarsalis	Woodland	50	CO2	7/5/2024	WNV
Yolo	SAYO 203	1794	Cx pipiens	Zamora	1	GRVD	7/9/2024	WNV
Yuba	SUYA 40	114	Cx tarsalis	Linda	18	CO2	7/3/2024	WNV
Yuba	SUYA 55	117	Cx tarsalis	Linda	50	CO2	7/3/2024	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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