

California Arbovirus Surveillance Bulletin #11

Week 25 Friday, June 21, 2024



WEEKLY UPDATE

Humans

No human infections have been reported in 2024.

Dead Birds

A total of 12 new West Nile virus (WNV) positive dead birds were reported from 6 counties: Alameda (1), Contra Costa (2), Sacramento (3), San Bernardino (1), San Mateo (1), and Santa Clara (4). **This is the first detection of WNV activity in San Bernardino County this year.** In 2024, 43 WNV positive dead birds have been reported from 9 counties. At this time last year, 41 WNV positive dead birds had been reported from 9 counties.

Mosquito Pools

West Nile virus

A total of 26 new WNV positive mosquito pools were reported from 5 counties: Alameda (1), Fresno (6), Los Angeles (1), Riverside (14), and Sacramento (4). In 2024, 137 WNV positive mosquito pools have been reported from 9 counties. At this time last year, 84 WNV positive mosquito pools had been reported from 9 counties.

St. Louis encephalitis virus

A total of 5 new SLEV positive mosquito pools were reported from 2 counties: Fresno (4) and Tulare (1). In 2024, 8 SLEV positive mosquito pools have been reported from 2 counties: Fresno (6) and Tulare (2). At this time last year, 8 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	2,361	2,721
No. Positive Counties	11	15
No. Human Cases	0	0
No. Positive Dead Birds / No. Tested	41 / 459	43 / 650
No. Positive Mosquito Pools / No. Tested	84 / 14,269	137 / 14,063
No. Seroconversions / No. Tested	0 / 1,074	0 / 1,079

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YTD WNV Activity by Element and County, 2024					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			7	2	
Contra Costa			3		
Fresno				9	
Imperial				1	
Los Angeles				2	
Merced				1	
Riverside				113	
Sacramento			11	6	
San Bernardino			1		
San Diego			2		
San Joaquin			1		
San Mateo			5		
Santa Clara			12	2	
Stanislaus				1	
Yolo			1		
Totals	0	0	43	137	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	12 / 113					
	YTD	43 / 650					
Chicken Sera	Week	0 / 124	0 / 124	0 / 124			
	YTD	0 / 1,079	0 / 1,079	0 / 1,079			
Mosquito Pools	Week	26 / 1,151	5 / 1,150	0 / 1,150	0 / 0	0 / 0	0 / 0
	YTD	137 / 14,063	8 / 13,464	0 / 13,464	0 / 121	0 / 121	0 / 121

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POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Fremont	94555	American Crow	6/14/2024	WNV
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	6/17/2024	WNV
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	6/17/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	6/17/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	6/18/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	6/18/2024	WNV
San Bernardino	West Valley MVCD	Ontario	91761	American Crow	6/21/2024	WNV
San Mateo	San Mateo Co MVCD	Menlo Park	94025	American Crow	6/7/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94304	Chestnut-Backed Chickadee	6/13/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95132	American Crow	6/14/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	6/17/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	6/17/2024	WNV

Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Alameda	ALCO 241151	32271	Cx tarsalis	Union City	45	CO2	6/18/2024	WNV
Fresno	CNSL 1087	739	Cx quinquefasciatus	Fresno	25	GRVD	6/12/2024	SLEV
Fresno	CNSL 1831	730	Cx quinquefasciatus	Fresno	50	GRVD	6/12/2024	WNV
Fresno	CNSL 1831	754	Cx quinquefasciatus	Fresno	45	GRVD	6/14/2024	WNV
Fresno	CNSL 2	740	Cx quinquefasciatus	Fresno	28	GRVD	6/12/2024	SLEV
Fresno	CNSL 2	751	Cx quinquefasciatus	Fresno	50	GRVD	6/14/2024	SLEV
Fresno	CNSL 6	756	Cx quinquefasciatus	Clovis	29	GRVD	6/14/2024	SLEV
Fresno	CNSL 9131	441	Cx quinquefasciatus	Fresno	50	GRVD	6/14/2024	WNV
Fresno	FRNO 238	298	Cx quinquefasciatus	Fresno	50	GRVD	6/13/2024	WNV
Fresno	FRNO 36	299	Cx quinquefasciatus	Fresno	50	GRVD	6/13/2024	WNV
Fresno	FRNO 82	307	Cx quinquefasciatus	Fresno	20	GRVD	6/18/2024	WNV
Los Angeles	GRLA 3034	5391	Cx quinquefasciatus	North Hills	50	GRVD	6/12/2024	WNV
Riverside	COAV 0	3298	Cx quinquefasciatus	Indio	50	GRVD	6/18/2024	WNV
Riverside	COAV 0	3395	Cx quinquefasciatus	Indio	50	GRVD	6/20/2024	WNV
Riverside	COAV 0	3396	Cx quinquefasciatus	Indio	50	GRVD	6/20/2024	WNV
Riverside	COAV 0	3397	Cx tarsalis	Indio	29	BGSENT	6/20/2024	WNV
Riverside	COAV 0	3398	Cx quinquefasciatus	Indio	50	BGSENT	6/20/2024	WNV
Riverside	COAV 0	3399	Cx quinquefasciatus	Indio	50	BGSENT	6/20/2024	WNV
Riverside	COAV 0	3400	Cx quinquefasciatus	Indio	42	BGSENT	6/20/2024	WNV
Riverside	COAV 0	3439	Cx quinquefasciatus	Indio	50	GRVD	6/20/2024	WNV
Riverside	COAV 0	3441	Cx quinquefasciatus	Indio	50	GRVD	6/20/2024	WNV
Riverside	COAV 0	3442	Cx quinquefasciatus	Indio	26	GRVD	6/20/2024	WNV
Riverside	COAV 421	3423	Cx quinquefasciatus	Indio	48	BGSENT	6/18/2024	WNV
Riverside	COAV 763	3366	Cx quinquefasciatus	La Quinta	50	BGSENT	6/18/2024	WNV
Riverside	COAV 763	3447	Cx quinquefasciatus	La Quinta	40	BGSENT	6/20/2024	WNV
Riverside	COAV 795	3358	Cx quinquefasciatus	La Quinta	41	BGSENT	6/18/2024	WNV
Sacramento	SAYO 222056	931	Cx pipiens	Sacramento	2	GRVD	6/18/2024	WNV
Sacramento	SAYO 222064	901	Cx pipiens	Sacramento	9	CO2	6/18/2024	WNV
Sacramento	SAYO 366288	905	Cx pipiens	Sacramento	8	GRVD	6/18/2024	WNV
Sacramento	SAYO 422366	1017	Cx pipiens	Sacramento	20	GRVD	6/18/2024	WNV
Tulare	TLRE 192436	17	Cx quinquefasciatus	Tulare	24	GRVD	6/13/2024	SLEV

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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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