

California Arbovirus Surveillance Bulletin #15

Week 29 Friday, July 19, 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, 1 human case of WNV had been reported from 1 county.

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 34 new WNV positive dead birds were reported from 8 counties: Alameda (5), Butte (1), Los Angeles (1), Orange (1), Sacramento (9), San Bernardino (2), San Mateo (2), and Santa Clara (13). **These are the first WNV positive dead birds from Los Angeles and Orange counties and the first detection of WNV activity in Butte County this year.** In 2024, 128 WNV positive dead birds have been reported from 13 counties. At this time last year, 113 WNV positive dead birds had been reported from 13 counties.

Mosquito Pools

West Nile virus

A total of 123 new WNV positive mosquito pools were reported from 20 counties: Alameda (6), Butte (2), Fresno (21), Kern (7), Kings (9), Lake (3), Los Angeles (2), Madera (2), Merced (1), Orange (8), Placer (4), Riverside (5), Sacramento (5), San Bernardino (19), San Joaquin (13), Santa Clara (2), Shasta (2), Tulare (4), Yolo (5), and Yuba (3). **This is the first detection of WNV positive mosquitoes in Butte County and the first detection of WNV activity in Lake County this year.** In 2024, 443 WNV positive mosquito pools have been reported from 22 counties. At this time last year, 827 WNV positive mosquito pools had been reported from 22 counties.

St. Louis encephalitis virus

A single (1) new SLEV positive mosquito pool was reported from 1 county: Fresno (1). In 2024, 12 SLEV positive mosquito pools have been reported from 3 counties: Fresno (8), Imperial (1), and Tulare (3). At this time last year, 111 SLEV positive mosquito pools had been reported from 7 counties.

Sentinel Chickens

No seroconversions have been reported in 2024. At this time last year, 5 WNV positive chickens had been reported from 1 county.

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2023 & 2024 YTD West Nile Virus Comparisons		
	2023	2024
Total No. Dead Bird Reports	3,175	3,568
No. Positive Counties	24	25
No. Human Cases	1	0
No. Positive Dead Birds / No. Tested	113 / 744	128 / 938
No. Positive Mosquito Pools / No. Tested	827 / 24,443	443 / 22,771
No. Seroconversions / No. Tested	5 / 1,732	0 / 1,952

YTD WNV Activity by Element and County, 2024					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			18	10	
Butte			1	2	
Contra Costa			3		
Fresno				93	
Imperial				2	
Kern				9	
Kings				13	
Lake				3	
Los Angeles			1	8	
Madera				3	
Merced				4	
Orange			1	9	
Placer				5	
Riverside			1	178	
Sacramento			34	20	
San Bernardino			5	24	
San Diego			2		
San Joaquin			3	24	
San Mateo			7		
Santa Clara			51	4	
Shasta				3	
Stanislaus				6	
Tulare				7	
Yolo			1	10	
Yuba				6	
Totals	0	0	128	443	0

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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	34 / 96
	YTD	128 / 938

Chicken Sera	Week	0 / 219	0 / 219	0 / 219
	YTD	0 / 1,952	0 / 1,952	0 / 1,952

Mosquito Pools	Week	123 / 1,540	1 / 1,383	1 / 1,383	0 / 0	0 / 0	0 / 0
	YTD	443 / 22,771	12 / 21,202	0 / 21,223	0 / 179	0 / 179	0 / 179

POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Fremont	94555	American Crow	6/30/2024	WNV
Alameda	Alameda Co MAD	Fremont	94555	American Crow	7/1/2024	WNV
Alameda	Alameda Co MAD	Oakland	94611	American Crow	7/5/2024	WNV
Alameda	Alameda Co MAD	Fremont	94555	American Crow	7/8/2024	WNV
Alameda	Alameda Co MAD	Livermore	94550	American Crow	7/11/2024	WNV
Butte	Butte Co MVCD	Durham	95938	California Scrub-Jay	7/1/2024	WNV
Los Angeles	Greater Los Angeles Co VCD	Granada Hills	91344	American Crow	7/1/2024	WNV
Orange	Orange Co VCD	Laguna Beach	92651	American Crow	7/10/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95816	American Crow	7/8/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	7/9/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	7/10/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	California Scrub-Jay	7/11/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	7/12/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	California Scrub-Jay	7/13/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	California Scrub-Jay	7/13/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	American Crow	7/13/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	7/15/2024	WNV
San Bernardino	West Valley MVCD	Rancho Cucamonga	91737	Unknown – Crow or Raven	7/15/2024	WNV
San Bernardino	West Valley MVCD	Chino Hills	91709	American Crow	7/17/2024	WNV
San Mateo	San Mateo Co MVCD	Menlo Park	94025	American Crow	7/9/2024	WNV
San Mateo	San Mateo Co MVCD	San Mateo	94403	American Crow	7/11/2024	WNV
Santa Clara	Santa Clara Co VCD	Cupertino	95014	American Crow	7/10/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	7/11/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95116	American Crow	7/11/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95132	American Crow	7/11/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95122	American Crow	7/11/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95127	American Crow	7/11/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	7/11/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95132	American Crow	7/11/2024	WNV

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Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	7/12/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95136	American Crow	7/15/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	7/15/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95123	Red-tailed Hawk	7/16/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95123	American Crow	7/16/2024	WNV

Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Alameda	ALCO 114722	32500	Cx tarsalis	Union City	33	CO2	6/28/2024	WNV
Alameda	ALCO 756978	32558	Cx tarsalis	Union City	34	CO2	7/2/2024	WNV
Alameda	ALCO 756978	32563	Cx tarsalis	Union City	45	CO2	7/2/2024	WNV
Alameda	ALCO 756978	32564	Cx tarsalis	Union City	45	CO2	7/2/2024	WNV
Alameda	ALCO 948178	32756	Cx erythrothorax	Union City	45	CO2	7/12/2024	WNV
Alameda	ALCO 948178	32757	Cx erythrothorax	Union City	45	CO2	7/12/2024	WNV
Butte	BUCO 117	101	Cx tarsalis	Nelson	50	CO2	7/9/2024	WNV
Butte	BUCO 91	114	Cx tarsalis	Biggs	50	CO2	7/10/2024	WNV
Fresno	CNSL 1	880	Cx quinquefasciatus	Fresno	14	GRVD	7/12/2024	WNV
Fresno	CNSL 1041	871	Cx quinquefasciatus	Fresno	40	GRVD	7/10/2024	WNV
Fresno	CNSL 1041	872	Cx quinquefasciatus	Fresno	15	GRVD	7/10/2024	WNV
Fresno	CNSL 1041	875	Cx quinquefasciatus	Fresno	31	GRVD	7/12/2024	WNV
Fresno	CNSL 1054	474	Cx quinquefasciatus	Fresno	29	GRVD	7/11/2024	WNV
Fresno	CNSL 1087	873	Cx quinquefasciatus	Fresno	15	GRVD	7/12/2024	WNV
Fresno	CNSL 1119	471	Cx quinquefasciatus	Fresno	50	GRVD	7/9/2024	WNV
Fresno	CNSL 1210	870	Cx quinquefasciatus	Fresno	27	GRVD	7/10/2024	WNV
Fresno	CNSL 1210	883	Cx quinquefasciatus	Fresno	10	GRVD	7/12/2024	WNV
Fresno	CNSL 1740	130	Cx quinquefasciatus	Fresno	21	GRVD	7/10/2024	WNV
Fresno	CNSL 2523	478	Cx quinquefasciatus	Sanger	50	GRVD	7/11/2024	WNV
Fresno	CNSL 2658	128	Cx quinquefasciatus	Sanger	49	GRVD	7/10/2024	WNV
Fresno	CNSL 4220	475	Cx quinquefasciatus	Selma	36	GRVD	7/11/2024	WNV
Fresno	CNSL 6	882	Cx quinquefasciatus	Clovis	22	GRVD	7/12/2024	WNV
Fresno	CNSL 8003	482	Cx quinquefasciatus	Clovis	29	GRVD	7/12/2024	WNV
Fresno	CNSL 8041	485	Cx quinquefasciatus	Fresno	50	GRVD	7/12/2024	WNV
Fresno	CNSL 8215	129	Cx quinquefasciatus	Clovis	50	GRVD	7/10/2024	WNV
Fresno	CNSL 8216	123	Cx quinquefasciatus	Fresno	50	GRVD	7/9/2024	WNV
Fresno	CNSL 8244	131	Cx quinquefasciatus	Clovis	38	GRVD	7/10/2024	SLEV
Fresno	CNSL 9221	135	Cx quinquefasciatus	Clovis	36	GRVD	7/10/2024	WNV
Fresno	FRNO 290	368	Cx quinquefasciatus	Fresno	48	GRVD	7/10/2024	WNV
Fresno	FRNO 88	369	Cx quinquefasciatus	Fresno	40	GRVD	7/10/2024	WNV
Kern	DLNO 123	72	Cx tarsalis	McFarland	50	CO2	7/1/2024	WNV
Kern	DLNO 247	68	Cx tarsalis	McFarland	50	CO2	6/28/2024	WNV
Kern	KERN 1137	240	Cx quinquefasciatus	Bakersfield	50	CO2	7/10/2024	WNV
Kern	KERN 2022	249	Cx quinquefasciatus	Shafter	50	GRVD	7/11/2024	WNV
Kern	KERN 27	245	Cx tarsalis	Wasco	46	CO2	7/11/2024	WNV
Kern	KERN 3004	252	Cx quinquefasciatus	Bakersfield	46	CO2	7/12/2024	WNV
Kern	KERN 43	247	Cx tarsalis	Shafter	50	CO2	7/11/2024	WNV
Kings	KNGS 3028	57	Cx tarsalis	Hanford	30	CO2	7/11/2024	WNV
Kings	KNGS 3078	50	Cx tarsalis	Lemoore	50	CO2	7/10/2024	WNV
Kings	KNGS 3108	52	Cx tarsalis	Island	50	CO2	7/10/2024	WNV
Kings	KNGS 3108	54	Cx tarsalis	Island	38	CO2	7/10/2024	WNV
Kings	KNGS 3122	55	Cx tarsalis	Hanford	37	CO2	7/11/2024	WNV
Kings	KNGS 3127	43	Cx tarsalis	Corcoran	50	CO2	7/9/2024	WNV
Kings	KNGS 3127	44	Cx tarsalis	Corcoran	50	CO2	7/9/2024	WNV
Kings	KNGS 3127	45	Cx tarsalis	Corcoran	50	CO2	7/9/2024	WNV
Kings	KNGS 3127	46	Cx pipiens	Corcoran	14	CO2	7/9/2024	WNV
Lake	LAKE 130	138	Cx tarsalis	Lower Lake	50	CO2	7/16/2024	WNV
Lake	LAKE 130	139	Cx tarsalis	Lower Lake	44	CO2	7/16/2024	WNV
Lake	LAKE 294	130	Cx tarsalis	Kelseyville	30	CO2	7/12/2024	WNV
Los Angeles	GRLA 2614	5515	Cx quinquefasciatus	Santa Clarita	50	GRVD	7/9/2024	WNV
Los Angeles	SGVA 285	411	Cx quinquefasciatus	Baldwin Park	29	GRVD	7/17/2024	WNV
Madera	MADR 747	186	Cx quinquefasciatus	Chowchilla	50	CO2	7/9/2024	WNV
Madera	MADR 747	189	Cx tarsalis	Chowchilla	50	CO2	7/9/2024	WNV
Merced	MERC 791915	191	Cx pipiens	Hilmar-Irwin	17	BGSENT	7/12/2024	WNV
Orange	ORCO 1010	1186	Cx quinquefasciatus	Huntington Beach	37	GRVD	7/9/2024	WNV
Orange	ORCO 1010	1187	Cx quinquefasciatus	Huntington Beach	36	GRVD	7/9/2024	WNV
Orange	ORCO 1010	1310	Cx quinquefasciatus	Huntington Beach	30	GRVD	7/16/2024	WNV
Orange	ORCO 1010	1314	Cx quinquefasciatus	Huntington Beach	42	GRVD	7/16/2024	WNV
Orange	ORCO 1010	1350	Cx quinquefasciatus	Huntington Beach	46	GRVD	7/16/2024	WNV

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Orange	ORCO 119	1318	Cx quinquefasciatus	Santa Ana	28	GRVD	7/16/2024	WNV
Orange	ORCO 193	1255	Cx quinquefasciatus	Huntington Beach	37	GRVD	7/11/2024	WNV
Orange	ORCO 355	1170	Cx quinquefasciatus	Huntington Beach	44	GRVD	7/9/2024	WNV
Placer	PLCR 191373	694	Cx tarsalis	Unknown	26	CO2	7/17/2024	WNV
Placer	PLCR 194232	700	Cx tarsalis	Pleasant Grove	42	CO2	7/17/2024	WNV
Placer	PLCR 197802	671	Cx tarsalis	Elverta	50	CO2	7/16/2024	WNV
Placer	PLCR 25	663	Cx tarsalis	Lincoln	50	CO2	7/16/2024	WNV
Riverside	COAV 123	4111	Cx tarsalis	Mecca	50	CO2	7/16/2024	WNV
Riverside	COAV 344	4031	Cx quinquefasciatus	La Quinta	36	BGSENT	7/16/2024	WNV
Riverside	COAV 45	4042	Cx tarsalis	Mecca	24	CO2	7/16/2024	WNV
Riverside	COAV 46	4043	Cx tarsalis	Mecca	27	CO2	7/16/2024	WNV
Riverside	COAV 48	4145	Cx tarsalis	Mecca	24	CO2	7/16/2024	WNV
Sacramento	SAYO 204051	2095	Cx pipiens	Citrus Heights	10	GRVD	7/12/2024	WNV
Sacramento	SAYO 214013	2270	Cx pipiens	Carmichael	14	GRVD	7/18/2024	WNV
Sacramento	SAYO 222010	2143	Cx pipiens	Sacramento	7	GRVD	7/16/2024	WNV
Sacramento	SAYO 222032	2162	Cx pipiens	Sacramento	14	CO2	7/16/2024	WNV
Sacramento	SAYO 233009	2115	Cx tarsalis	Elk Grove	38	CO2	7/16/2024	WNV
San Bernardino	WVAL 1269	1089	Cx quinquefasciatus	Ontario	50	BGSENT	7/18/2024	WNV
San Bernardino	WVAL 1269	1090	Cx quinquefasciatus	Ontario	50	BGSENT	7/18/2024	WNV
San Bernardino	WVAL 2043	944	Cx quinquefasciatus	Ontario	50	BGSENT	7/17/2024	WNV
San Bernardino	WVAL 2043	945	Cx quinquefasciatus	Ontario	50	BGSENT	7/17/2024	WNV
San Bernardino	WVAL 2043	946	Cx quinquefasciatus	Ontario	50	BGSENT	7/17/2024	WNV
San Bernardino	WVAL 4721	892	Cx quinquefasciatus	Chino	50	BGSENT	7/16/2024	WNV
San Bernardino	WVAL 4721	893	Cx quinquefasciatus	Chino	50	BGSENT	7/16/2024	WNV
San Bernardino	WVAL 4721	897	Cx quinquefasciatus	Chino	50	BGSENT	7/16/2024	WNV
San Bernardino	WVAL 4721	898	Cx quinquefasciatus	Chino	50	BGSENT	7/16/2024	WNV
San Bernardino	WVAL 4721	907	Cx quinquefasciatus	Chino	50	BGSENT	7/16/2024	WNV
San Bernardino	WVAL 4721	913	Cx quinquefasciatus	Chino	37	BGSENT	7/16/2024	WNV
San Bernardino	WVAL 4988	1172	Cx quinquefasciatus	Chino	50	BGSENT	7/19/2024	WNV
San Bernardino	WVAL 5443	1063	Cx quinquefasciatus	Chino	50	BGSENT	7/18/2024	WNV
San Bernardino	WVAL 5597	959	Cx quinquefasciatus	Chino	50	BGSENT	7/17/2024	WNV
San Bernardino	WVAL 5731	942	Cx quinquefasciatus	Ontario	50	BGSENT	7/17/2024	WNV
San Bernardino	WVAL 5758	982	Cx quinquefasciatus	Ontario	50	BGSENT	7/17/2024	WNV
San Bernardino	WVAL 5758	986	Cx quinquefasciatus	Ontario	50	BGSENT	7/17/2024	WNV
San Bernardino	WVAL 5766	1144	Cx quinquefasciatus	Chino	50	BGSENT	7/19/2024	WNV
San Bernardino	WVAL 6051	926	Cx quinquefasciatus	Chino	31	BGSENT	7/16/2024	WNV
San Joaquin	SJCM 8008	917	Cx tarsalis	Manteca	50	FAYPRINCE	7/16/2024	WNV
San Joaquin	SJCM 8018	893	Cx tarsalis	Stockton	100	CO2	7/16/2024	WNV
San Joaquin	SJCM 8018	894	Cx tarsalis	Stockton	100	CO2	7/16/2024	WNV
San Joaquin	SJCM 8018	895	Cx tarsalis	Stockton	100	CO2	7/16/2024	WNV
San Joaquin	SJCM 8018	896	Cx tarsalis	Stockton	100	CO2	7/16/2024	WNV
San Joaquin	SJCM 8018	897	Cx tarsalis	Stockton	100	CO2	7/16/2024	WNV
San Joaquin	SJCM 8018	898	Cx tarsalis	Stockton	100	CO2	7/16/2024	WNV
San Joaquin	SJCM 8018	899	Cx tarsalis	Stockton	100	CO2	7/16/2024	WNV
San Joaquin	SJCM 8018	900	Cx tarsalis	Stockton	100	CO2	7/16/2024	WNV
San Joaquin	SJCM 8018	901	Cx tarsalis	Stockton	100	CO2	7/16/2024	WNV
San Joaquin	SJCM 8205	891	Cx pipiens	Farmington	19	CO2	7/16/2024	WNV
San Joaquin	SJCM 8206	872	Cx tarsalis	Lodi	50	CO2	7/16/2024	WNV
San Joaquin	SJCM 8210	905	Cx pipiens	Escalon	5	CO2	7/16/2024	WNV
Santa Clara	STCL 31409	1759	Cx pipiens	San Jose	3	CO2	7/16/2024	WNV
Santa Clara	STCL 31789	1758	Cx pipiens	San Jose	12	BGSENT	7/12/2024	WNV
Shasta	SHAS 410	321	Cx tarsalis	Cottonwood	48	CO2	7/16/2024	WNV
Shasta	SHAS 917	305	Cx tarsalis	Redding	37	CO2	7/16/2024	WNV
Tulare	DLNO 125	86	Cx quinquefasciatus	Delano	50	CO2	7/12/2024	WNV
Tulare	DLNO 14	89	Cx stigmatosoma	Terra Bella	50	CO2	7/12/2024	WNV
Tulare	DLNO 217	96	Cx quinquefasciatus	Earlimart	50	CO2	7/12/2024	WNV
Tulare	DLNO 217	97	Cx tarsalis	Earlimart	50	CO2	7/12/2024	WNV
Yolo	SAYO 114004	2233	Cx tarsalis	Zamora	50	CO2	7/16/2024	WNV
Yolo	SAYO 135016	2039	Cx tarsalis	Woodland	50	CO2	7/12/2024	WNV
Yolo	SAYO 135016	2043	Cx tarsalis	Woodland	50	CO2	7/12/2024	WNV
Yolo	SAYO 203	2200	Cx tarsalis	Zamora	50	CO2	7/16/2024	WNV
Yolo	SAYO 203	2201	Cx tarsalis	Zamora	50	CO2	7/16/2024	WNV
Yuba	SUYA 40	156	Cx tarsalis	Linda	17	CO2	7/10/2024	WNV
Yuba	SUYA 55	161	Cx tarsalis	Linda	11	CO2	7/10/2024	WNV
Yuba	SUYA 8	149	Cx tarsalis	Marysville	27	CO2	7/10/2024	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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