

California Arbovirus Surveillance Bulletin #13

Week 27 Friday, July 5, 2024



WEEKLY UPDATE

Humans

No human infections have been reported in 2024.

Dead Birds

A total of 23 new West Nile virus (WNV) positive dead birds were reported from 5 counties: Alameda (1), Sacramento (6), San Bernardino (1), San Joaquin (2), and Santa Clara (13). In 2024, 84 WNV positive dead birds have been reported from 10 counties. At this time last year, 65 WNV positive dead birds had been reported from 11 counties.

Mosquito Pools

West Nile virus

A total of 66 new WNV positive mosquito pools were reported from 12 counties: Fresno (26), Kings (1), Los Angeles (2), Merced (1), Orange (1), Riverside (16), Sacramento (4), San Bernardino (5), San Joaquin (2), Stanislaus (4), Tulare (2), and Yolo (2). **This is the first detection of WNV positive mosquito pools for San Bernadino County and the first detection of WNV activity for Orange and Tulare counties this year.** In 2024, 269 WNV positive mosquito pools have been reported from 17 counties. At this time last year, 283 WNV positive mosquito pools had been reported from 16 counties.

St. Louis encephalitis virus

A single (1) new St. Louis encephalitis virus (SLEV) positive mosquito pool was reported from 1 county: Tulare (1). In 2024, 10 SLEV positive mosquito pools have been reported from 3 counties: Fresno (6), Imperial (1), and Tulare (3). At this time last year, 49 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	2,772	3,170
No. Positive Counties	17	20
No. Human Cases	0	0
No. Positive Dead Birds / No. Tested	65 / 607	84 / 791
No. Positive Mosquito Pools / No. Tested	283 / 19,332	269 / 18,678
No. Seroconversions / No. Tested	0 / 1,370	0 / 1,498

California Arbovirus Surveillance Bulletin #13

Week 27 Friday, July 5, 2024

YTD WNV Activity by Element and County, 2024					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			13	4	
Contra Costa			3		
Fresno				56	
Imperial				2	
Kern				2	
Kings				4	
Los Angeles				4	
Merced				3	
Orange				1	
Riverside			1	157	
Sacramento			23	14	
San Bernardino			2	5	
San Diego			2		
San Joaquin			3	4	
San Mateo			5		
Santa Clara			31	2	
Stanislaus				5	
Tulare				2	
Yolo			1	3	
Yuba				1	
Totals	0	0	84	269	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	23 / 71					
	YTD	84 / 791					
Chicken Sera	Week	0 / 142	0 / 142	0 / 142			
	YTD	0 / 1,498	0 / 1,498	0 / 1,498			
Mosquito Pools	Week	66 / 1,586	1 / 1,444	0 / 1,444	0 / 0	0 / 0	0 / 0
	YTD	269 / 18,678	10 / 17,432	0 / 17,453	0 / 139	0 / 139	0 / 139

California Arbovirus Surveillance Bulletin #13

Week 27 Friday, July 5, 2024

POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Union City	94587	American Crow	7/2/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	California Scrub-Jay	6/30/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	California Scrub-Jay	6/30/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	California Scrub-Jay	6/30/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95841	California Scrub-Jay	7/1/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	Western Bluebird	7/1/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	7/1/2024	WNV
San Bernardino	West Valley MVCD	Chino Hills	91709	American Crow	7/2/2024	WNV
San Joaquin	San Joaquin Co MVCD	Thornton	95686	House Finch	6/26/2024	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95207	California Scrub-Jay	7/2/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	6/26/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95120	Sparrow	6/26/2024	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	6/26/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	6/28/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	6/28/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	6/28/2024	WNV
Santa Clara	Santa Clara Co VCD	Campbell	95008	Unknown-Hawk	6/28/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	6/29/2024	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	6/30/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	7/1/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95117	American Crow	7/1/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94043	American Crow	7/2/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	7/2/2024	WNV

Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Fresno	CNSL 1	844	Cx quinquefasciatus	Fresno	33	GRVD	6/29/2024	WNV
Fresno	CNSL 1041	817	Cx quinquefasciatus	Fresno	48	GRVD	6/26/2024	WNV
Fresno	CNSL 1062	820	Cx quinquefasciatus	Fresno	23	GRVD	6/26/2024	WNV
Fresno	CNSL 1065	823	Cx quinquefasciatus	Fresno	31	GRVD	6/26/2024	WNV
Fresno	CNSL 1127	464	Cx quinquefasciatus	Fresno	50	GRVD	6/28/2024	WNV
Fresno	CNSL 1177	835	Cx quinquefasciatus	Clovis	17	GRVD	6/29/2024	WNV
Fresno	CNSL 1210	815	Cx quinquefasciatus	Fresno	45	GRVD	6/26/2024	WNV
Fresno	CNSL 1210	840	Cx quinquefasciatus	Fresno	50	GRVD	6/29/2024	WNV
Fresno	CNSL 1350	453	Cx quinquefasciatus	Clovis	50	GRVD	6/25/2024	WNV
Fresno	CNSL 1353	812	Cx quinquefasciatus	Fresno	30	GRVD	6/26/2024	WNV
Fresno	CNSL 1353	825	Cx quinquefasciatus	Fresno	50	GRVD	6/29/2024	WNV
Fresno	CNSL 1353	827	Cx quinquefasciatus	Fresno	30	GRVD	6/29/2024	WNV
Fresno	CNSL 1353	828	Cx quinquefasciatus	Fresno	17	GRVD	6/29/2024	WNV
Fresno	CNSL 1353	829	Cx quinquefasciatus	Fresno	19	GRVD	6/29/2024	WNV
Fresno	CNSL 1806	465	Cx quinquefasciatus	Clovis	50	GRVD	6/28/2024	WNV
Fresno	CNSL 1831	842	Cx quinquefasciatus	Fresno	50	GRVD	6/29/2024	WNV
Fresno	CNSL 2266	460	Cx quinquefasciatus	Sanger	50	GRVD	6/27/2024	WNV
Fresno	CNSL 2529	102	Cx quinquefasciatus	Sanger	50	GRVD	6/27/2024	WNV
Fresno	CNSL 4	837	Cx quinquefasciatus	Clovis	14	GRVD	6/29/2024	WNV
Fresno	CNSL 5	818	Cx quinquefasciatus	Fresno	48	GRVD	6/26/2024	WNV
Fresno	CNSL 5	845	Cx quinquefasciatus	Fresno	24	GRVD	6/29/2024	WNV
Fresno	CNSL 8165	96	Cx quinquefasciatus	Clovis	44	GRVD	6/26/2024	WNV
Fresno	CNSL 8192	457	Cx quinquefasciatus	Fresno	50	GRVD	6/26/2024	WNV
Fresno	CNSL 8199	92	Cx quinquefasciatus	Fresno	50	GRVD	6/26/2024	WNV
Fresno	CNSL 8199	93	Cx stigmatosoma	Fresno	50	GRVD	6/26/2024	WNV
Fresno	CNSL 9179	106	Cx quinquefasciatus	Fresno	40	GRVD	6/28/2024	WNV
Kings	KNGS 3018	28	Cx tarsalis	Lemoore	50	CO2	6/26/2024	WNV
Los Angeles	GRLA 3088	5468	Cx quinquefasciatus	Pacoima	50	GRVD	6/27/2024	WNV
Los Angeles	LACW 1047	762	Cx quinquefasciatus	Inglewood	43	CO2	6/13/2024	WNV
Merced	MERC 1037	157	Cx tarsalis	Merced	50	CO2	6/28/2024	WNV
Orange	ORCO 355	1079	Cx quinquefasciatus	Huntington Beach	41	GRVD	7/3/2024	WNV

California Arbovirus Surveillance Bulletin #13

Week 27 Friday, July 5, 2024

Riverside	COAV 0	3781	Cx quinquefasciatus	Indio	50	BGSENT	7/2/2024	WNV
Riverside	COAV 0	3784	Cx quinquefasciatus	Indio	50	BGSENT	7/2/2024	WNV
Riverside	COAV 0	3788	Cx tarsalis	Indio	11	GRVD	7/2/2024	WNV
Riverside	COAV 0	3791	Cx quinquefasciatus	Indio	30	GRVD	7/2/2024	WNV
Riverside	COAV 0	3794	Cx quinquefasciatus	Indio	30	GRVD	7/2/2024	WNV
Riverside	COAV 121	3807	Cx tarsalis	Mecca	50	CO2	7/2/2024	WNV
Riverside	COAV 121	3808	Cx tarsalis	Mecca	34	CO2	7/2/2024	WNV
Riverside	COAV 122	3697	Cx tarsalis	Mecca	37	CO2	7/2/2024	WNV
Riverside	COAV 123	3802	Cx tarsalis	Mecca	50	CO2	7/2/2024	WNV
Riverside	COAV 123	3803	Cx tarsalis	Mecca	50	CO2	7/2/2024	WNV
Riverside	COAV 45	3822	Cx tarsalis	Mecca	50	CO2	7/2/2024	WNV
Riverside	COAV 45	3823	Cx tarsalis	Mecca	50	CO2	7/2/2024	WNV
Riverside	COAV 45	3824	Cx tarsalis	Mecca	50	CO2	7/2/2024	WNV
Riverside	COAV 45	3825	Cx tarsalis	Mecca	31	CO2	7/2/2024	WNV
Riverside	COAV 55	3665	Cx tarsalis	Mecca	28	CO2	7/2/2024	WNV
Riverside	COAV 611	3662	Cx tarsalis	Mecca	22	CO2	7/2/2024	WNV
Sacramento	SAYO 223006	1464	Cx tarsalis	South Watt Avenue	7	CO2	7/2/2024	WNV
Sacramento	SAYO 232010	1534	Cx pipiens	Sacramento	50	GRVD	7/2/2024	WNV
Sacramento	SAYO 233015	1434	Cx tarsalis	Sacramento	15	CO2	7/2/2024	WNV
Sacramento	SAYO 422359	1639	Cx pipiens	Sacramento	19	GRVD	7/2/2024	WNV
San Bernardino	WVAL 2043	602	Cx quinquefasciatus	Ontario	38	BGSENT	7/3/2024	WNV
San Bernardino	WVAL 4013	613	Cx quinquefasciatus	Ontario	42	CO2	7/3/2024	WNV
San Bernardino	WVAL 4721	556	Cx quinquefasciatus	Chino	50	BGSENT	7/2/2024	WNV
San Bernardino	WVAL 4721	559	Cx quinquefasciatus	Chino	16	BGSENT	7/2/2024	WNV
San Bernardino	WVAL 5597	588	Cx quinquefasciatus	Chino	50	BGSENT	7/3/2024	WNV
San Joaquin	SJCM 8018	719	Cx tarsalis	Stockton	100	CO2	7/2/2024	WNV
San Joaquin	SJCM 8027	610	Cx tarsalis	Stockton	50	CO2	7/2/2024	WNV
Stanislaus	TRLK 17131	248	Cx pipiens	Turlock	36	CO2	7/2/2024	WNV
Stanislaus	TRLK 2418	241	Cx pipiens	Turlock	50	CO2	7/2/2024	WNV
Stanislaus	TRLK 2418	242	Cx pipiens	Turlock	41	CO2	7/2/2024	WNV
Stanislaus	TRLK 536	232	Cx pipiens	Turlock	50	CO2	7/2/2024	WNV
Tulare	DLTA 8413	2110	Cx quinquefasciatus	Visalia	50	BGSENT	7/3/2024	WNV
Tulare	DLTA 8424	2067	Cx quinquefasciatus	Visalia	45	GRVD	7/2/2024	WNV
Tulare	DLTA 9504	2076	Cx quinquefasciatus	Visalia	17	GRVD	7/2/2024	SLEV
Yolo	SAYO 114001	1483	Cx tarsalis	Zamora	50	CO2	7/2/2024	WNV
Yolo	SAYO 114001	1485	Cx pipiens	Zamora	9	GRVD	7/2/2024	WNV

California Arbovirus Surveillance Bulletin #13

Week 27 Friday, July 5, 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).

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>

Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch), California Department of Public Health, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Hannah Romo: Hannah.Romo@cdph.ca.gov