

California Arbovirus Surveillance Bulletin #12

Week 27 Friday, July 3, 2025



WEEKLY UPDATE

Humans

West Nile virus

No new human cases of West Nile virus (WNV) disease were reported this week. In 2025, 1 human case of WNV disease has been reported from 1 county. At this time last year, no human cases of WNV disease had been reported.

Dengue virus

No locally acquired dengue infections have been reported in 2025. Travel associated dengue cases are indicated in the CDPH Weekly Update on Number of Dengue Infections:

<https://westnile.ca.gov/pdfs/WeeklyUpdateDengueInfectionsCA.pdf>

Dead Birds

A total of 7 new WNV positive dead birds were reported this week from 4 counties: Fresno (3), Kern (1), San Joaquin (2), and Tulare (1). **These are the first WNV positive dead birds from Fresno, Kern, and San Joaquin Counties this year.** In 2025, a total of 26 WNV positive dead birds have been reported from 7 counties. At this time last year, 84 WNV positive dead birds had been reported from 10 counties.

Mosquito Pools

West Nile virus

A total of 104 new WNV positive mosquito pools were reported from 11 counties: Fresno (9), Kern (5), Kings (1), Madera (4), Merced (1), Placer (16), San Diego (16), San Joaquin (3), Stanislaus (3), Tulare (45), and Yolo (1). **These are the first detections of WNV activity in Kings and Madera counties and the first detection of WNV positive mosquito pools in San Diego County this year.** In 2025, a total of 397 WNV positive mosquito pools have been reported from 15 counties. At this time last year, 269 WNV positive mosquito pools had been reported from 17 counties.

St. Louis encephalitis virus

A single new St. Louis encephalitis virus (SLEV) positive mosquito pool was reported this week from 1 county: Fresno (1). **This is the first detection of SLEV activity in Fresno County this year.** In 2025, 2 SLEV positive mosquito pools have been reported from 2 counties: Fresno (1) and Riverside (1). At this time last year, 10 SLEV positive mosquito pools had been reported from 3 counties.

Sentinel Chickens

No seroconversions have been reported in 2025.

2024 & 2025 YTD West Nile Virus Comparisons		
	2024	2025
Total No. Dead Bird Reports	3,170	4,582
No. Positive Counties	20	17
No. Human Cases	0	1
No. Positive Dead Birds / No. Tested	84 / 791	26 / 800
No. Positive Mosquito Pools / No. Tested	269 / 18,678	397 / 18,028
No. Seroconversions / No. Tested	0 / 1,498	0 / 1,295

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YTD WNV Activity by Element and County, 2025					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			5		
Fresno			3	14	
Imperial				1	
Kern			1	18	
Kings				1	
Madera				4	
Merced				2	
Placer				18	
Riverside				1	
Sacramento				1	
San Bernardino				1	
San Diego			4	16	
San Joaquin			2	11	
Santa Clara			7		
Stanislaus				13	
Tulare	1		4	294	
Yolo				2	
Totals	1		26	397	

TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	0	0	0
	YTD	1	0	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Dead Birds	Week	7 / 61					
	YTD	26 / 800					
Chicken Sera	Week	0 / 182	0 / 182	0 / 182			
	YTD	0 / 1,295	0 / 1,295	0 / 1,295			
Mosquito Pools	Week	104 / 1,782	1 / 1,782	0 / 1,782	0 / 0	0 / 0	0 / 0
	YTD	397 / 18,028	2 / 17,129	0 / 17,131	0 / 53	0 / 53	0 / 53

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POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Fresno	Fresno MVCD	Fresno	93711	California Scrub-Jay	6/23/2025	WNV
Fresno	Fresno MVCD	Fresno	93711	California Scrub-Jay	6/23/2025	WNV
Fresno	Fresno MVCD	Fresno	93711	California Scrub-Jay	6/23/2025	WNV
Kern	Kern MVCD	Bakersfield	93307	Finch	6/20/2025	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95205	California Scrub-Jay	6/29/2025	WNV
San Joaquin	San Joaquin Co MVCD	Tracy	95377	American Crow	7/1/2025	WNV
Tulare	Delta MVCD	Visalia	93277	California Scrub-Jay	6/27/2025	WNV

Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Fresno	CNSL 1041	204	Cx quinquefasciatus	Fresno	50	GRVD	06/26/2025	WNV
Fresno	CNSL 1068	205	Cx quinquefasciatus	Fresno	50	GRVD	06/26/2025	WNV
Fresno	CNSL 1087	203	Cx quinquefasciatus	Fresno	50	GRVD	06/26/2025	WNV
Fresno	CNSL 1692	210	Cx quinquefasciatus	Fresno	50	GRVD	06/26/2025	WNV
Fresno	CNSL 8161	191	Cx quinquefasciatus	Fresno	43	GRVD	06/24/2025	WNV
Fresno	CNSL 8263	192	Cx quinquefasciatus	Fresno	50	GRVD	06/24/2025	WNV
Fresno	FRWS 1202	87	Cx tarsalis	Dos Palos	15	CO2	07/01/2025	WNV
Fresno	FRWS 300031	84	Cx tarsalis	Firebaugh	50	CO2	07/01/2025	SLEV
Fresno	FRWS 300031	85	Cx tarsalis	Firebaugh	32	CO2	07/01/2025	WNV
Fresno	FRWS 5110	92	Cx tarsalis	Tranquillity	50	CO2	07/01/2025	WNV
Kern	KERN 1004	179	Cx tarsalis	Bakersfield	27	BGSENT	06/25/2025	WNV
Kern	KERN 134	192	Cx quinquefasciatus	Bakersfield	27	BGSENT	06/27/2025	WNV
Kern	KERN 15	167	Cx tarsalis	Bakersfield	50	CO2	06/24/2025	WNV
Kern	KERN 2051	195	Cx quinquefasciatus	Bakersfield	22	GRVD	06/27/2025	WNV
Kern	KERN 3009	194	Cx tarsalis	Bakersfield	24	CO2	06/27/2025	WNV
Kings	KNGS 3028	20	Cx tarsalis	Hanford	42	CO2	06/25/2025	WNV
Madera	MADR 227	89	Cx tarsalis	Madera	50	CO2	06/27/2025	WNV
Madera	MADR 237	81	Cx tarsalis	Madera	50	CO2	06/27/2025	WNV
Madera	MADR 688	86	Cx tarsalis	Madera	50	CO2	06/27/2025	WNV
Madera	MADR 975	80	Cx quinquefasciatus	Madera	50	CO2	06/27/2025	WNV
Merced	MERC 492592	288	Cx pipiens	Delhi	50	BGSENT	07/01/2025	WNV
Placer	PLCR 1113	786	Cx tarsalis	Pleasant Grove	50	CO2	07/01/2025	WNV
Placer	PLCR 191218	759	Cx tarsalis	Roseville	50	CO2	07/01/2025	WNV
Placer	PLCR 191218	763	Cx tarsalis	Roseville	50	CO2	07/01/2025	WNV
Placer	PLCR 194232	812	Cx tarsalis	Pleasant Grove	50	CO2	07/01/2025	WNV
Placer	PLCR 197802	840	Cx tarsalis	Elverta	50	CO2	07/01/2025	WNV
Placer	PLCR 197802	841	Cx tarsalis	Elverta	50	CO2	07/01/2025	WNV
Placer	PLCR 197802	842	Cx tarsalis	Elverta	50	CO2	07/01/2025	WNV
Placer	PLCR 197802	843	Cx tarsalis	Elverta	50	CO2	07/01/2025	WNV
Placer	PLCR 197802	844	Cx tarsalis	Elverta	50	CO2	07/01/2025	WNV
Placer	PLCR 197802	845	Cx pipiens	Elverta	29	CO2	07/01/2025	WNV
Placer	PLCR 198707	773	Cx tarsalis	Unknown	18	CO2	07/01/2025	WNV
Placer	PLCR 25	794	Cx tarsalis	Lincoln	50	CO2	07/01/2025	WNV
Placer	PLCR 25	795	Cx tarsalis	Lincoln	50	CO2	07/01/2025	WNV
Placer	PLCR 466642	803	Cx tarsalis	Roseville	36	CO2	07/01/2025	WNV
Placer	PLCR 678519	805	Cx tarsalis	Elverta	50	CO2	07/01/2025	WNV
Placer	PLCR 678519	806	Cx tarsalis	Elverta	50	CO2	07/01/2025	WNV
San Diego	SAND 24133	16578	Cx quinquefasciatus	San Diego	50	GRVD	06/24/2025	WNV
San Diego	SAND 24133	16579	Cx quinquefasciatus	San Diego	28	GRVD	06/24/2025	WNV
San Diego	SAND 24152	16668	Cx quinquefasciatus	La Mesa	20	GRVD	07/01/2025	WNV
San Diego	SAND 24152	16669	Cx quinquefasciatus	La Mesa	20	GRVD	07/01/2025	WNV
San Diego	SAND 24152	16671	Cx quinquefasciatus	La Mesa	20	GRVD	07/01/2025	WNV
San Diego	SAND 24153	16650	Cx quinquefasciatus	San Diego	20	GRVD	07/01/2025	WNV
San Diego	SAND 24153	16652	Cx quinquefasciatus	San Diego	20	GRVD	07/01/2025	WNV

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San Diego	SAND 24153	16654	Cx quinquefasciatus	San Diego	20	GRVD	07/01/2025	WNV
San Diego	SAND 24154	16640	Cx quinquefasciatus	La Mesa	20	GRVD	07/01/2025	WNV
San Diego	SAND 24154	16641	Cx quinquefasciatus	La Mesa	20	GRVD	07/01/2025	WNV
San Diego	SAND 24154	16642	Cx quinquefasciatus	La Mesa	20	GRVD	07/01/2025	WNV
San Diego	SAND 24154	16644	Cx quinquefasciatus	La Mesa	20	GRVD	07/01/2025	WNV
San Diego	SAND 24156	16617	Cx tarsalis	La Mesa	1	CO2	07/01/2025	WNV
San Diego	SAND 24156	16673	Cx quinquefasciatus	La Mesa	20	GRVD	07/01/2025	WNV
San Diego	SAND 24156	16674	Cx quinquefasciatus	La Mesa	20	GRVD	07/01/2025	WNV
San Diego	SAND 24156	16675	Cx quinquefasciatus	La Mesa	20	GRVD	07/01/2025	WNV
San Joaquin	SJCM 2151	869	Cx tarsalis	Tracy	50	CO2	07/01/2025	WNV
San Joaquin	SJCM 8003	867	Cx tarsalis	Tracy	50	CO2	07/01/2025	WNV
San Joaquin	SJCM 8100	883	Cx tarsalis	Tracy	50	CO2	07/01/2025	WNV
Stanislaus	TRLK 1107	300	Cx tarsalis	Denair	50	CO2	07/01/2025	WNV
Stanislaus	TRLK 1308	313	Cx tarsalis	Turlock	35	CO2	07/01/2025	WNV
Stanislaus	TRLK 1905	296	Cx pipiens	Denair	43	CO2	07/01/2025	WNV
Tulare	DLTA 509399	2015	Cx quinquefasciatus	Dinuba	19	BGSENT	06/27/2025	WNV
Tulare	DLTA 509400	2017	Cx stigmatosoma	Dinuba	28	BGSENT	06/27/2025	WNV
Tulare	DLTA 509431	2036	Cx quinquefasciatus	Visalia Uab	14	BGSENT	07/01/2025	WNV
Tulare	DLTA 509433	2068	Cx quinquefasciatus	Ivanhoe Udb	19	GRVD	07/02/2025	WNV
Tulare	DLTA 509443	2029	Cx quinquefasciatus	Visalia	17	BGSENT	07/01/2025	WNV
Tulare	DLTA 509449	1988	Cx quinquefasciatus	Visalia	10	BGSENT	06/27/2025	WNV
Tulare	DLTA 509467	2074	Cx quinquefasciatus	Visalia	15	GRVD	07/02/2025	WNV
Tulare	DLTA 509476	2013	Cx quinquefasciatus	Visalia	14	BGSENT	06/27/2025	WNV
Tulare	DLTA 509551	2061	Cx quinquefasciatus	Visalia	13	GRVD	07/02/2025	WNV
Tulare	DLTA 509567	2062	Cx quinquefasciatus	Visalia	11	GRVD	07/02/2025	WNV
Tulare	DLTA 509646	2002	Cx quinquefasciatus	Visalia	12	GRVD	06/27/2025	WNV
Tulare	DLTA 509760	2051	Cx stigmatosoma	Dinuba	37	CO2	07/01/2025	WNV
Tulare	DLTA 509826	2023	Cx quinquefasciatus	Visalia	16	BGSENT	07/01/2025	WNV
Tulare	DLTA 509868	2072	Cx quinquefasciatus	Farmersville	25	GRVD	07/02/2025	WNV
Tulare	DLTA 509878	2024	Cx quinquefasciatus	Farmersville	15	GRVD	07/01/2025	WNV
Tulare	DLTA 509888	2087	Cx quinquefasciatus	Visalia	13	BGSENT	07/02/2025	WNV
Tulare	DLTA 509889	2022	Cx quinquefasciatus	Visalia	36	BGSENT	07/01/2025	WNV
Tulare	DLTA 509900	2073	Cx quinquefasciatus	Visalia	10	GRVD	07/02/2025	WNV
Tulare	DLTA 509923	1987	Cx quinquefasciatus	Visalia	13	GRVD	06/27/2025	WNV
Tulare	DLTA 509954	2041	Cx quinquefasciatus	Visalia	16	BGSENT	07/01/2025	WNV
Tulare	DLTA 509960	1981	Cx quinquefasciatus	Visalia	11	BGSENT	06/27/2025	WNV
Tulare	DLTA 509974	2070	Cx quinquefasciatus	Visalia	31	GRVD	07/02/2025	WNV
Tulare	DLTA 509975	1996	Cx quinquefasciatus	Visalia	13	BGSENT	06/27/2025	WNV
Tulare	DLTA 509975	2004	Cx quinquefasciatus	Visalia	18	GRVD	06/27/2025	WNV
Tulare	DLTA 509988	2080	Cx quinquefasciatus	Visalia	16	BGSENT	07/02/2025	WNV
Tulare	DLTA 509993	1997	Cx quinquefasciatus	Visalia	10	BGSENT	06/27/2025	WNV
Tulare	DLTA 509997	2027	Cx stigmatosoma	Dinuba	18	GRVD	07/01/2025	WNV
Tulare	DLTA 509997	2040	Cx stigmatosoma	Dinuba	10	BGSENT	07/01/2025	WNV
Tulare	DLTA 511869	2000	Cx quinquefasciatus	Dinuba	15	GRVD	06/27/2025	WNV
Tulare	DLTA 512181	2025	Cx quinquefasciatus	Exeter	11	GRVD	07/01/2025	WNV
Tulare	DLTA 512181	2026	Cx stigmatosoma	Exeter	13	GRVD	07/01/2025	WNV
Tulare	TLRE 192412	34	Cx quinquefasciatus	Visalia	50	GRVD	06/24/2025	WNV
Tulare	TLRE 192413	33	Cx quinquefasciatus	Visalia	50	GRVD	06/24/2025	WNV
Tulare	TLRE 192424	32	Cx quinquefasciatus	Tulare	29	GRVD	06/24/2025	WNV
Tulare	TLRE 192425	41	Cx quinquefasciatus	Trulare	50	GRVD	06/26/2025	WNV
Tulare	TLRE 192434	23	Cx quinquefasciatus	Tulare	46	GRVD	06/18/2025	WNV
Tulare	TLRE 192435	29	Cx quinquefasciatus	Tulare	50	GRVD	06/24/2025	WNV
Tulare	TLRE 202401	28	Cx quinquefasciatus	Tulare	50	GRVD	06/24/2025	WNV
Tulare	TLRE 202402	25	Cx quinquefasciatus	Tulare	37	GRVD	06/18/2025	WNV
Tulare	TLRE 202402	40	Cx quinquefasciatus	Tulare	49	GRVD	06/26/2025	WNV
Tulare	TLRE 202403	31	Cx quinquefasciatus	Tulare	50	GRVD	06/24/2025	WNV
Tulare	TLRE 202410	37	Cx quinquefasciatus	Tulare	50	GRVD	06/25/2025	WNV
Tulare	TLRE 202424	39	Cx quinquefasciatus	Tulare	50	GRVD	06/26/2025	WNV
Tulare	TLRE 202507	22	Cx quinquefasciatus	Tulare	50	GRVD	06/18/2025	WNV
Tulare	TLRE 202518	27	Cx quinquefasciatus	Tulare	50	GRVD	06/24/2025	WNV
Yolo	SAYO 114001	1451	Cx tarsalis	Zamora	50	CO2	07/01/2025	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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