

California Arbovirus Surveillance Bulletin #14

Week 29 Friday, July 18, 2025



WEEKLY UPDATE

Humans

West Nile virus

A single (1) human case of West Nile virus (WNV) disease was reported this week from 1 county: Kings (1). **This is the first human case of WNV disease reported in Kings County this year.** In 2025, 3 human cases of WNV disease have been reported from 3 counties. Of the 3 cases, 1 (33%) had neuroinvasive disease and 1 (33%) was fatal. The median age of the case-patients was 64 years. The dates of symptom onset ranged from June 6 to June 27. 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 9 new WNV positive dead birds were reported this week from 6 counties: Contra Costa (1), Fresno (2), Sacramento (1), San Diego (1), Santa Clara (3), and Tulare (1). **This is the first detection of WNV activity in Contra Costa County this year.** In 2025, a total of 51 WNV positive dead birds have been reported from 9 counties. At this time last year, 128 WNV positive dead birds had been reported from 13 counties.

Mosquito Pools

West Nile virus

A total of 141 new WNV positive mosquito pools were reported from 11 counties: Fresno (4), Kern (7), Kings (4), Los Angeles (3), Madera (13), Placer (18), Sacramento (10), San Diego (18), San Joaquin (7), Stanislaus (8), and Tulare (49). In 2025, a total of 680 WNV positive mosquito pools have been reported from 19 counties. At this time last year, 443 WNV positive mosquito pools had been reported from 22 counties.

St. Louis encephalitis virus

A total of 4 new St. Louis encephalitis virus (SLEV) positive mosquito pools were reported this week from 1 county: Imperial (4). **This is the first detection of SLEV activity in Imperial County this year.** In 2025, 6 SLEV positive mosquito pools have been reported from 3 counties: Fresno (1), Imperial (4), and Riverside (1). At this time last year, 12 SLEV positive mosquito pools had been reported from 3 counties.

Sentinel Chickens

No seroconversions have been reported in 2025.

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2024 & 2025 YTD West Nile Virus Comparisons		
	2024	2025
Total No. Dead Bird Reports	3,568	4,988
No. Positive Counties	25	21
No. Human Cases	0	3
No. Positive Dead Birds / No. Tested	128 / 938	51 / 945
No. Positive Mosquito Pools / No. Tested	443 / 22,771	680 / 22,541
No. Seroconversions / No. Tested	0 / 1,952	0 / 1,629

YTD WNV Activity by Element and County, 2025					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			5		
Contra Costa			1		
Fresno			6	22	
Imperial				1	
Kern			1	29	
Kings	1			7	
Los Angeles				6	
Madera				37	
Merced				3	
Placer				50	
Riverside				1	
Sacramento			5	14	
San Bernardino				1	
San Diego			9	60	
San Joaquin			2	20	
Santa Clara			17		
Shasta				1	
Stanislaus	1			36	
Sutter				1	
Tulare	1		5	388	
Yolo				2	
Yuba				1	
Totals	3		51	680	

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TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	1	0	0
	YTD	3	0	0

Positive / Total Tested					
WNV	SLEV	WEEV	CHIK	DENV	ZIKA

Dead Birds	Week	9 / 65
	YTD	51 / 945

Chicken Sera	Week	0 / 124	0 / 124	0 / 124
	YTD	0 / 1,629	0 / 1,629	0 / 1,629

Mosquito Pools	Week	141 / 1,954	4 / 1,963	0 / 1,963	0 / 25	0 / 25	0 / 25
	YTD	680 / 22,541	6 / 21,115	0 / 21,118	0 / 106	0 / 106	0 / 106

POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Contra Costa	Contra Costa MVCD	San Ramon	94583	California Scrub-Jay	7/9/2025	WNV
Fresno	Fresno MVCD	Fresno	93704	Unknown - songbird	7/14/2025	WNV
Fresno	Fresno MVCD	Fresno	93704	Mourning Dove	7/16/2025	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95817	American Crow	7/9/2025	WNV
San Diego	San Diego Co VCP	San Diego	92115	American Crow	7/15/2025	WNV
Santa Clara	Santa Clara Co VCD	Morgan Hill	95037	Unknown - songbird	7/7/2025	WNV
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	Red-shouldered Hawk	7/10/2025	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95123	American Crow	7/11/2025	WNV
Tulare	Delta MVCD	Visalia	93277	American Crow	7/10/2025	WNV

Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Fresno	CNSL 2326	218	Cx stigmatosoma	Sanger	19	GRVD	07/09/2025	WNV
Fresno	FRNO 229	231	Cx quinquefasciatus	Fresno	11	CO2	07/15/2025	WNV
Fresno	FRNO 235	225	Cx quinquefasciatus	Fresno	14	BGSENT	07/15/2025	WNV
Fresno	FRNO 235	226	Cx tarsalis	Fresno	9	BGSENT	07/15/2025	WNV
Imperial	IMPR 130	171	Cx tarsalis	Imperial	50	BGSENT	07/15/2025	SLEV
Imperial	IMPR 40	169	Cx tarsalis	Imperial	47	BGSENT	07/15/2025	SLEV
Imperial	IMPR 40	170	Cx quinquefasciatus	Imperial	45	BGSENT	07/15/2025	SLEV
Imperial	IMPR 98	162	Cx quinquefasciatus	Holtville	5	BGSENT	07/15/2025	SLEV
Kern	DLNO 237	171	Cx tarsalis	Delano	50	CO2	07/15/2025	WNV
Kern	DLNO 27	168	Cx tarsalis	Wasco	50	CO2	07/15/2025	WNV
Kern	KERN 115	237	Cx tarsalis	Bakersfield	50	CO2	07/10/2025	WNV

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Kern	KERN 2022	244	Cx quinquefasciatus	Shafter	21	GRVD	07/10/2025	WNV
Kern	KERN 2050	236	Cx quinquefasciatus	Bakersfield	22	BGSENT	07/09/2025	WNV
Kern	KERN 29	246	Cx quinquefasciatus	Lamont	32	CO2	07/11/2025	WNV
Kern	KERN 3012	248	Cx quinquefasciatus	Bakersfield	25	GRVD	07/11/2025	WNV
Kings	KNGS 3019	88	Cx tarsalis	Stratford	50	CO2	07/08/2025	WNV
Kings	KNGS 3101	75	Cx tarsalis	Hanford	50	CO2	07/08/2025	WNV
Kings	KNGS 3147	106	Cx tarsalis	Laton	23	CO2	07/10/2025	WNV
Kings	KNGS 4501	96	Cx tarsalis	Armona	50	CO2	07/09/2025	WNV
Los Angeles	GRLA 2419	5487	Cx quinquefasciatus	Panorama City	50	GRVD	07/08/2025	WNV
Los Angeles	GRLA 2637	5489	Cx quinquefasciatus	Van Nuys	50	BGSENT	07/08/2025	WNV
Los Angeles	GRLA 2655	5485	Cx quinquefasciatus	Lake Balboa	50	GRVD	07/08/2025	WNV
Madera	MADR 123497	241	Cx tarsalis	Ca	41	CO2	07/16/2025	WNV
Madera	MADR 12355	163	Cx tarsalis	Madera	20	CO2	07/10/2025	WNV
Madera	MADR 12358	162	Cx tarsalis	Madera	50	CO2	07/10/2025	WNV
Madera	MADR 12358	235	Cx tarsalis	Madera	40	CO2	07/16/2025	WNV
Madera	MADR 12611	244	Cx tarsalis	Madera	50	CO2	07/16/2025	WNV
Madera	MADR 12623	237	Cx tarsalis	La Vina	33	CO2	07/16/2025	WNV
Madera	MADR 12628	220	Cx tarsalis	Fresno	50	CO2	07/15/2025	WNV
Madera	MADR 12633	186	Cx tarsalis	Madera	50	CO2	07/11/2025	WNV
Madera	MADR 237	252	Cx tarsalis	Madera	50	CO2	07/16/2025	WNV
Madera	MADR 688	166	Cx tarsalis	Madera	28	CO2	07/10/2025	WNV
Madera	MADR 726	250	Cx tarsalis	Madera	50	CO2	07/16/2025	WNV
Madera	MADR 732	249	Cx tarsalis	Madera	50	CO2	07/16/2025	WNV
Madera	MADR 975	251	Cx tarsalis	Madera	50	CO2	07/16/2025	WNV
Placer	PLCR 1113	1058	Cx tarsalis	Pleasant Grove	50	CO2	07/15/2025	WNV
Placer	PLCR 1113	1060	Cx tarsalis	Pleasant Grove	50	CO2	07/15/2025	WNV
Placer	PLCR 1113	1061	Cx tarsalis	Pleasant Grove	50	CO2	07/15/2025	WNV
Placer	PLCR 1113	1062	Cx tarsalis	Pleasant Grove	35	CO2	07/15/2025	WNV
Placer	PLCR 1114	1094	Cx tarsalis	Lincoln	50	CO2	07/15/2025	WNV
Placer	PLCR 17	1082	Cx tarsalis	Sheridan	50	CO2	07/15/2025	WNV
Placer	PLCR 191218	1096	Cx tarsalis	Roseville	50	CO2	07/15/2025	WNV
Placer	PLCR 191218	1097	Cx tarsalis	Roseville	50	CO2	07/15/2025	WNV
Placer	PLCR 191218	1098	Cx tarsalis	Roseville	50	CO2	07/15/2025	WNV
Placer	PLCR 191218	1099	Cx tarsalis	Roseville	50	CO2	07/15/2025	WNV
Placer	PLCR 191218	1100	Cx tarsalis	Roseville	50	CO2	07/15/2025	WNV
Placer	PLCR 191373	1063	Cx tarsalis	Pleasant Grove	50	CO2	07/15/2025	WNV
Placer	PLCR 194232	1071	Cx tarsalis	Pleasant Grove	50	CO2	07/15/2025	WNV
Placer	PLCR 197802	1045	Cx tarsalis	Elverta	50	CO2	07/15/2025	WNV
Placer	PLCR 678519	1078	Cx tarsalis	Elverta	50	CO2	07/15/2025	WNV
Placer	PLCR 678519	1079	Cx tarsalis	Elverta	50	CO2	07/15/2025	WNV
Placer	PLCR 678519	1080	Cx tarsalis	Elverta	50	CO2	07/15/2025	WNV
Placer	PLCR 719276	1031	Cx tarsalis	Roseville	50	CO2	07/15/2025	WNV
Sacramento	SAYO 203011	1912	Cx pipiens	Antelope	14	CO2	07/11/2025	WNV
Sacramento	SAYO 203011	1915	Cx tarsalis	Antelope	1	GRVD	07/11/2025	WNV
Sacramento	SAYO 203032	1948	Cx tarsalis	Sacramento	44	CO2	07/11/2025	WNV
Sacramento	SAYO 203032	1949	Cx pipiens	Sacramento	23	GRVD	07/11/2025	WNV
Sacramento	SAYO 203032	1950	Cx tarsalis	Sacramento	4	GRVD	07/11/2025	WNV
Sacramento	SAYO 233036	1933	Cx pipiens	Elk Grove	14	GRVD	07/11/2025	WNV
Sacramento	SAYO 242010	1858	Cx tarsalis	Elk Grove	50	CO2	07/11/2025	WNV
Sacramento	SAYO 271003	1973	Cx tarsalis	Isleton	50	CO2	07/11/2025	WNV
Sacramento	SAYO 271007	2006	Cx tarsalis	Isleton	50	CO2	07/11/2025	WNV
Sacramento	SAYO 214013	2048	Cx pipiens	Carmichael	17	GRVD	07/11/2025	WNV
San Diego	SAND 24152	16911	Cx quinquefasciatus	La Mesa	12	GRVD	07/15/2025	WNV
San Diego	SAND 24153	16899	Cx quinquefasciatus	San Diego	20	GRVD	07/15/2025	WNV
San Diego	SAND 24153	16900	Cx quinquefasciatus	San Diego	20	GRVD	07/15/2025	WNV
San Diego	SAND 24153	16902	Cx quinquefasciatus	San Diego	20	GRVD	07/15/2025	WNV
San Diego	SAND 24153	16905	Cx quinquefasciatus	San Diego	1	GRVD	07/15/2025	WNV
San Diego	SAND 24154	16921	Cx quinquefasciatus	La Mesa	1	GRVD	07/15/2025	WNV
San Diego	SAND 24154	16928	Cx quinquefasciatus	La Mesa	20	GRVD	07/15/2025	WNV
San Diego	SAND 24156	16935	Cx quinquefasciatus	La Mesa	1	GRVD	07/15/2025	WNV
San Diego	SAND 24156	16939	Cx quinquefasciatus	La Mesa	20	GRVD	07/15/2025	WNV

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San Diego	SAND 24156	16940	Cx quinquefasciatus	La Mesa	20	GRVD	07/15/2025	WNV
San Diego	SAND 24186	16973	Cx quinquefasciatus	La Mesa	19	GRVD	07/16/2025	WNV
San Diego	SAND 24187	16968	Cx quinquefasciatus	La Mesa	20	GRVD	07/16/2025	WNV
San Diego	SAND 24188	16984	Cx quinquefasciatus	La Mesa	20	GRVD	07/16/2025	WNV
San Diego	SAND 24188	16986	Cx quinquefasciatus	La Mesa	10	GRVD	07/16/2025	WNV
San Diego	SAND 24188	16987	Cx quinquefasciatus	La Mesa	1	GRVD	07/16/2025	WNV
San Diego	SAND 24194	16997	Cx quinquefasciatus	La Mesa	15	GRVD	07/16/2025	WNV
San Diego	SAND 24194	17001	Cx quinquefasciatus	La Mesa	1	GRVD	07/16/2025	WNV
San Diego	SAND 24201	16962	Cx quinquefasciatus	La Mesa	20	GRVD	07/16/2025	WNV
San Joaquin	SJCM 8003	1143	Cx tarsalis	Tracy	38	CO2	07/15/2025	WNV
San Joaquin	SJCM 8100	1214	Cx tarsalis	Tracy	50	CO2	07/15/2025	WNV
San Joaquin	SJCM 8100	1215	Cx tarsalis	Tracy	50	CO2	07/15/2025	WNV
San Joaquin	SJCM 8100	1216	Cx tarsalis	Tracy	23	CO2	07/15/2025	WNV
San Joaquin	SJCM 8100	1217	Cx pipiens	Tracy	23	CO2	07/15/2025	WNV
San Joaquin	SJCM 8160	1122	Cx tarsalis	Lodi	50	CO2	07/15/2025	WNV
San Joaquin	SJCM 8236	1071	Cx tarsalis	Manteca	49	CO2	07/15/2025	WNV
Stanislaus	TRLK 1107	399	Cx pipiens	Denair	37	CO2	07/15/2025	WNV
Stanislaus	TRLK 1209	372	Cx pipiens	Ceres	50	CO2	07/15/2025	WNV
Stanislaus	TRLK 1612	379	Cx tarsalis	Turlock	31	CO2	07/15/2025	WNV
Stanislaus	TRLK 17152	393	Cx pipiens	Denair	50	CO2	07/15/2025	WNV
Stanislaus	TRLK 1905	409	Cx pipiens	Denair	35	CO2	07/15/2025	WNV
Stanislaus	TRLK 19519	405	Cx pipiens	Denair	33	CO2	07/15/2025	WNV
Stanislaus	TRLK 2418	391	Cx pipiens	Turlock	44	CO2	07/15/2025	WNV
Stanislaus	TRLK 408	381	Cx tarsalis	Turlock	17	CO2	07/15/2025	WNV
Tulare	DLTA 509298	2252	Cx quinquefasciatus	Visalia	14	GRVD	07/10/2025	WNV
Tulare	DLTA 509373	2359	Cx quinquefasciatus	Dinuba	26	GRVD	07/16/2025	WNV
Tulare	DLTA 509375	2244	Cx quinquefasciatus	Dinuba	16	GRVD	07/10/2025	WNV
Tulare	DLTA 509398	2251	Cx quinquefasciatus	Visalia	22	BGSENT	07/10/2025	WNV
Tulare	DLTA 509400	2289	Cx stigmatosoma	Dinuba	30	GRVD	07/11/2025	WNV
Tulare	DLTA 509400	2306	Cx quinquefasciatus	Dinuba	10	BGSENT	07/11/2025	WNV
Tulare	DLTA 509400	2307	Cx stigmatosoma	Dinuba	33	BGSENT	07/11/2025	WNV
Tulare	DLTA 509427	2254	Cx quinquefasciatus	Visalia	50	BGSENT	07/10/2025	WNV
Tulare	DLTA 509427	2255	Cx quinquefasciatus	Visalia	50	BGSENT	07/10/2025	WNV
Tulare	DLTA 509427	2258	Cx quinquefasciatus	Visalia	50	BGSENT	07/10/2025	WNV
Tulare	DLTA 509427	2259	Cx quinquefasciatus	Visalia	50	BGSENT	07/10/2025	WNV
Tulare	DLTA 509427	2260	Cx quinquefasciatus	Visalia	14	BGSENT	07/10/2025	WNV
Tulare	DLTA 509427	2391	Cx quinquefasciatus	Visalia	50	BGSENT	07/17/2025	WNV
Tulare	DLTA 509443	2322	Cx quinquefasciatus	Visalia	22	BGSENT	07/15/2025	WNV
Tulare	DLTA 509494	2310	Cx quinquefasciatus	Exeter	12	GRVD	07/15/2025	WNV
Tulare	DLTA 509512	2376	Cx quinquefasciatus	Dinuba	19	GRVD	07/16/2025	WNV
Tulare	DLTA 509514	2238	Cx stigmatosoma	Dinuba	20	GRVD	07/10/2025	WNV
Tulare	DLTA 509517	2369	Cx quinquefasciatus	Visalia	16	BGSENT	07/16/2025	WNV
Tulare	DLTA 509567	2351	Cx quinquefasciatus	Visalia	50	BGSENT	07/16/2025	WNV
Tulare	DLTA 509646	2292	Cx quinquefasciatus	Visalia	16	BGSENT	07/11/2025	WNV
Tulare	DLTA 509648	2245	Cx stigmatosoma	Tooleville	27	CO2	07/10/2025	WNV
Tulare	DLTA 509687	2296	Cx quinquefasciatus	Visalia	12	BGSENT	07/11/2025	WNV
Tulare	DLTA 509756	2309	Cx quinquefasciatus	Patterson Tract	12	CO2	07/11/2025	WNV
Tulare	DLTA 509758	2341	Cx quinquefasciatus	Visalia	50	BGSENT	07/15/2025	WNV
Tulare	DLTA 509839	2374	Cx quinquefasciatus	Dinuba	10	GRVD	07/16/2025	WNV
Tulare	DLTA 509840	2337	Cx quinquefasciatus	Dinuba	27	GRVD	07/15/2025	WNV
Tulare	DLTA 509844	2377	Cx quinquefasciatus	Dinuba	16	GRVD	07/16/2025	WNV
Tulare	DLTA 509848	2395	Cx quinquefasciatus	Cutler-Orosi Udb	30	GRVD	07/17/2025	WNV
Tulare	DLTA 509868	2382	Cx quinquefasciatus	Farmersville	40	GRVD	07/16/2025	WNV
Tulare	DLTA 509876	2246	Cx quinquefasciatus	Farmersville	17	BGSENT	07/10/2025	WNV
Tulare	DLTA 509876	2390	Cx quinquefasciatus	Farmersville	20	BGSENT	07/17/2025	WNV
Tulare	DLTA 509877	2379	Cx quinquefasciatus	Farmersville	21	GRVD	07/16/2025	WNV
Tulare	DLTA 509889	2321	Cx quinquefasciatus	Visalia	46	BGSENT	07/15/2025	WNV
Tulare	DLTA 509935	2399	Cx quinquefasciatus	Visalia	10	GRVD	07/17/2025	WNV
Tulare	DLTA 509969	2329	Cx quinquefasciatus	Visalia	23	BGSENT	07/15/2025	WNV
Tulare	DLTA 509986	2270	Cx quinquefasciatus	Visalia	45	BGSENT	07/10/2025	WNV
Tulare	DLTA 509986	2271	Cx quinquefasciatus	Visalia	10	BGSENT	07/10/2025	WNV

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Tulare	DLTA 509988	2356	Cx quinquefasciatus	Visalia	28	BGSENT	07/16/2025	WNV
Tulare	DLTA 509989	2314	Cx quinquefasciatus	Visalia	37	BGSENT	07/15/2025	WNV
Tulare	DLTA 509989	2327	Cx quinquefasciatus	Visalia	14	GRVD	07/15/2025	WNV
Tulare	DLTA 509993	2284	Cx quinquefasciatus	Visalia	16	BGSENT	07/11/2025	WNV
Tulare	DLTA 511869	2290	Cx quinquefasciatus	Dinuba	43	GRVD	07/11/2025	WNV
Tulare	DLTA 512177	2330	Cx quinquefasciatus	Visalia	32	GRVD	07/15/2025	WNV
Tulare	DLTA 512182	2293	Cx stigmatosoma	Dinuba	12	GRVD	07/11/2025	WNV
Tulare	DLTA 512182	2294	Cx quinquefasciatus	Dinuba	35	GRVD	07/11/2025	WNV
Tulare	DLTA 512188	2265	Cx quinquefasciatus	Visalia	22	GRVD	07/10/2025	WNV
Tulare	TLRE 192433	48	Cx quinquefasciatus	Tulare	50	GRVD	07/09/2025	WNV
Tulare	TLRE 202401	47	Cx quinquefasciatus	Tulare	43	GRVD	07/09/2025	WNV
Tulare	TLRE 202635	49	Cx quinquefasciatus	Plainview	50	GRVD	07/10/2025	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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