

California Arbovirus Surveillance Bulletin #24

Week 39 Friday, September 26, 2025



WEEKLY UPDATE

Humans

West Nile virus

A total of 5 new human cases of West Nile virus (WNV) disease were reported this week from 3 counties: Kern (1), Placer (2), and Sacramento (2). **These are the first human cases of WNV disease reported from Sacramento County this year.** In 2025, 47 human cases of WNV disease have been reported from 12 counties. Of the 47 cases, 43 (91%) had neuroinvasive disease and 3 (6%) were fatal. The median age of the case-patients was 66 years and 25 (53%) of the case patients were male. The dates of symptom onset ranged from June 6 to September 12. In addition to the 47 cases of WNV disease, 7 asymptomatic WNV positive blood donors have been reported from 5 counties: Fresno (2), Kern (2), Madera (1), Merced (1), and Tulare (1). At this time last year, 63 human cases of WNV disease had been reported from 20 counties.

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 4 new WNV positive dead birds were reported this week from 4 counties: Placer (1), Sacramento (1), San Diego (1), and Tulare (1). In 2025, a total of 138 WNV positive dead birds have been reported from 20 counties. At this time last year, 474 WNV positive dead birds had been reported from 20 counties.

Mosquito Pools

West Nile virus

A total of 108 new WNV positive mosquito pools were reported from 14 counties: Butte (2), Contra Costa (1), Fresno (4), Kern (4), Los Angeles (15), Madera (13), Placer (4), Sacramento (5), San Diego (12), San Joaquin (10), Solano (1), Stanislaus (7), Tulare (24), and Yolo (6). In 2025, a total of 2,500 WNV positive mosquito pools have been reported from 27 counties. At this time last year, 1,835 WNV positive mosquito pools had been reported from 25 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: Riverside (4). In 2025, 100 SLEV positive mosquito pools have been reported from 3 counties: Fresno (1), Imperial (8), and Riverside (91). At this time last year, 26 SLEV positive mosquito pools had been reported from 5 counties.

Sentinel Chickens

A total of 6 new WNV positive sentinel chickens were reported this week from 2 counties: Butte (3) and Sutter (3). In 2025, 49 WNV positive sentinel chickens have been reported from 7 counties. At this time last year, 139 WNV positive chickens had been reported from 15 counties.

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2024 & 2025 YTD West Nile Virus Comparisons		
	2024	2025
Total No. Dead Bird Reports	5,504	6,665
No. Positive Counties	31	33
No. Human Cases	63	47
No. Positive Dead Birds / No. Tested	474 / 1,606	138 / 1,471
No. Positive Mosquito Pools / No. Tested	1,835 / 40,797	2,500 / 42,472
No. Seroconversions / No. Tested	139 / 3,957	49 / 3,281

YTD WNV Activity by Element and County, 2025					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			6		
Butte	3			28	14
Colusa			1	1	
Contra Costa		1	3	2	
Fresno	6		11	123	
Imperial				1	
Inyo				1	
Kern	11		1	126	
Kings	3			129	
Lake			1	5	6
Los Angeles			4	126	3
Madera				264	
Merced	1			42	
Nevada	1				
Orange			2	102	
Placer	4		8	145	
Riverside				11	
Sacramento	2		27	59	
San Bernardino				4	
San Diego			24	149	
San Joaquin			7	133	
Santa Barbara		1			
Santa Clara			25	3	
Shasta				2	
Solano			2	24	2
Sonoma			1		
Stanislaus	2	1	1	185	
Sutter			1	12	11
Tulare	12		8	741	9
Tuolumne	1				
Ventura			1		
Yolo	1	1	4	74	
Yuba				8	4
Totals	47	4	138	2,500	49

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TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	5	0	0
	YTD	47	0	0

Positive / Total Tested					
WNV	SLEV	WEEV	CHIK	DENV	ZIKA

Dead Birds	Week	4 / 21
	YTD	138 / 1,471

Chicken Sera	Week	6 / 165	0 / 165	0 / 165
	YTD	49 / 3,281	0 / 3,281	0 / 3,281

Mosquito Pools	Week	108 / 1,584	4 / 1,584	0 / 1,464	0 / 0	0 / 0	0 / 0
	YTD	2,500 / 42,472	100 / 39,518	0 / 39,404	0 / 460	0 / 460	0 / 460

POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Placer	Placer MVCD	Lincoln	95648	California Scrub-Jay	9/23/2025	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Mourning Dove	9/22/2025	WNV
San Diego	San Diego Co VCP	Chula Vista	91911	American Crow	9/18/2025	WNV
Tulare	Delta MVCD	Visalia	93291	Northern Mockingbird	9/22/2025	WNV

Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Butte	BUCO 123	424	Cx tarsalis	Oroville	23	CO2	09/15/2025	WNV
Butte	BUCO 43	428	Cx tarsalis	Chico	37	CO2	09/15/2025	WNV
Contra Costa	CNTR 8152	1563	Cx tarsalis	Knightesen	11	CO2	09/23/2025	WNV
Fresno	CNSL 1453	379	Cx quinquefasciatus	Fresno	50	GRVD	09/18/2025	WNV
Fresno	CNSL 2727	317	Cx tarsalis	Clovis	50	CO2	09/17/2025	WNV
Fresno	CNSL 8055	380	Cx quinquefasciatus	Clovis	40	GRVD	09/18/2025	WNV
Fresno	FRNO 174	389	Cx quinquefasciatus	Fresno	19	GRVD	09/18/2025	WNV
Kern	DLNO 0	399	Cx tarsalis	Delano	21	CO2	09/18/2025	WNV
Kern	DLNO 230	372	Cx tarsalis	Mcfarland	50	CO2	09/12/2025	WNV
Kern	KERN 132	441	Cx quinquefasciatus	Bakersfield	24	GRVD	09/18/2025	WNV
Kern	KERN 2041	426	Cx quinquefasciatus	Arvin	30	GRVD	09/16/2025	WNV
Los Angeles	GRLA 2021	5867	Cx quinquefasciatus	Reseda	44	GRVD	09/15/2025	WNV
Los Angeles	GRLA 2031	5870	Cx quinquefasciatus	Northridge	26	GRVD	09/15/2025	WNV
Los Angeles	GRLA 2101	755	Cx quinquefasciatus	Santa Fe Springs	16	GRVD	09/17/2025	WNV
Los Angeles	GRLA 2268	763	Cx quinquefasciatus	Cerritos	50	GRVD	09/17/2025	WNV
Los Angeles	GRLA 2540	5871	Cx quinquefasciatus	Porter Ranch	50	GRVD	09/15/2025	WNV
Los Angeles	GRLA 2555	5864	Cx quinquefasciatus	Encino	47	GRVD	09/15/2025	WNV
Los Angeles	GRLA 2635	5863	Cx quinquefasciatus	Lake Balboa	49	GRVD	09/15/2025	WNV
Los Angeles	GRLA 2636	5862	Cx quinquefasciatus	Lake Balboa	50	GRVD	09/15/2025	WNV
Los Angeles	GRLA 2889	770	Cx quinquefasciatus	Lakewood	50	GRVD	09/19/2025	WNV
Los Angeles	GRLA 2890	771	Cx quinquefasciatus	Lakewood	50	GRVD	09/19/2025	WNV
Los Angeles	GRLA 2937	5888	Cx quinquefasciatus	Burbank	50	GRVD	09/19/2025	WNV

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Los Angeles	GRLA 3048	765	Cx quinquefasciatus	Pico Rivera	50	GRVD	09/17/2025	WNV
Los Angeles	GRLA 3060	760	Cx quinquefasciatus	Norwalk	49	GRVD	09/17/2025	WNV
Los Angeles	LACW 1083	1267	Cx tarsalis	Torrance	24	CO2	09/18/2025	WNV
Los Angeles	SGVA 960	725	Cx quinquefasciatus	Rosemead	50	GRVD	09/23/2025	WNV
Madera	MADR 12360	933	Cx tarsalis	Madera	30	CO2	09/24/2025	WNV
Madera	MADR 12394	884	Cx tarsalis	Firebaugh	50	CO2	09/18/2025	WNV
Madera	MADR 12555	898	Cx tarsalis	Firebaugh	50	CO2	09/19/2025	WNV
Madera	MADR 12620	879	Cx tarsalis	Parkwood	50	CO2	09/18/2025	WNV
Madera	MADR 12632	893	Cx tarsalis	Mendota	50	CO2	09/18/2025	WNV
Madera	MADR 12650	868	Cx tarsalis	Fresno	20	CO2	09/17/2025	WNV
Madera	MADR 15	903	Cx tarsalis	Madera	5	CO2	09/19/2025	WNV
Madera	MADR 195	888	Cx tarsalis	Madera	50	CO2	09/19/2025	WNV
Madera	MADR 195	923	Cx tarsalis	Madera	50	CO2	09/24/2025	WNV
Madera	MADR 204	894	Cx tarsalis	Madera	6	CO2	09/19/2025	WNV
Madera	MADR 232	902	Cx tarsalis	Chowchilla	50	CO2	09/19/2025	WNV
Madera	MADR 237	871	Cx tarsalis	Madera	44	CO2	09/17/2025	WNV
Madera	MADR 259	878	Cx tarsalis	Madera	50	CO2	09/18/2025	WNV
Placer	PLCR 1114	2268	Cx tarsalis	Lincoln	50	CO2	09/23/2025	WNV
Placer	PLCR 191402	2293	Cx tarsalis	Rocklin	2	CO2	09/24/2025	WNV
Placer	PLCR 191998	2255	Cx pipiens	Lincoln	31	CO2	09/23/2025	WNV
Placer	PLCR 191998	2256	Cx stigmatosoma	Lincoln	18	CO2	09/23/2025	WNV
Riverside	COAV 116	4956	Cx tarsalis	North Shore	26	CO2	09/23/2025	SLEV
Riverside	COAV 532	5008	Cx tarsalis	Mecca	50	CO2	09/23/2025	SLEV
Riverside	COAV 532	5009	Cx tarsalis	Mecca	50	CO2	09/23/2025	SLEV
Riverside	COAV 57	4965	Cx tarsalis	North Shore	50	CO2	09/23/2025	SLEV
Sacramento	SAYO 212033	5315	Cx pipiens	Sacramento, Ca	50	GRVD	09/23/2025	WNV
Sacramento	SAYO 215008	5103	Cx pipiens	Folsom	3	GRVD	09/19/2025	WNV
Sacramento	SAYO 245006	5139	Cx pipiens	Wilton	13	CO2	09/19/2025	WNV
Sacramento	SAYO 254021	5054	Cx tarsalis	Galt	33	CO2	09/19/2025	WNV
Sacramento	SAYO 437734	5090	Cx tarsalis	Isleton	50	CO2	09/19/2025	WNV
San Diego	SAND 24152	17891	Cx quinquefasciatus	La Mesa	9	GRVD	09/16/2025	WNV
San Diego	SAND 24152	17894	Cx quinquefasciatus	La Mesa	10	GRVD	09/16/2025	WNV
San Diego	SAND 24152	17897	Cx quinquefasciatus	La Mesa	10	GRVD	09/16/2025	WNV
San Diego	SAND 24152	17900	Cx quinquefasciatus	La Mesa	10	GRVD	09/16/2025	WNV
San Diego	SAND 24153	17934	Cx quinquefasciatus	San Diego	20	GRVD	09/18/2025	WNV
San Diego	SAND 24153	17935	Cx quinquefasciatus	San Diego	20	GRVD	09/18/2025	WNV
San Diego	SAND 24156	17876	Cx quinquefasciatus	La Mesa	20	GRVD	09/16/2025	WNV
San Diego	SAND 24186	17878	Cx quinquefasciatus	La Mesa	20	GRVD	09/16/2025	WNV
San Diego	SAND 24186	17879	Cx quinquefasciatus	La Mesa	20	GRVD	09/16/2025	WNV
San Diego	SAND 24189	17887	Cx quinquefasciatus	La Mesa	10	GRVD	09/16/2025	WNV
San Diego	SAND 24201	17883	Cx quinquefasciatus	La Mesa	8	GRVD	09/16/2025	WNV
San Diego	SAND 24435	17953	Cx quinquefasciatus	San Diego	20	GRVD	09/18/2025	WNV
San Joaquin	SJCM 8029	2312	Cx pipiens	Farmington	50	CO2	09/23/2025	WNV
San Joaquin	SJCM 8076	2260	Cx tarsalis	Stockton	8	CO2	09/23/2025	WNV
San Joaquin	SJCM 8143	2261	Cx tarsalis	Stockton	50	CO2	09/23/2025	WNV
San Joaquin	SJCM 8143	2262	Cx tarsalis	Stockton	50	CO2	09/23/2025	WNV
San Joaquin	SJCM 8198	2259	Cx tarsalis	Stockton	12	CO2	09/23/2025	WNV
San Joaquin	SJCM 8204	2258	Cx tarsalis	Stockton	35	CO2	09/23/2025	WNV
San Joaquin	SJCM 8206	2327	Cx tarsalis	Lodi	50	CO2	09/23/2025	WNV
San Joaquin	SJCM 8216	2333	Cx tarsalis	Tracy	34	CO2	09/23/2025	WNV
San Joaquin	SJCM 8216	2334	Cx pipiens	Tracy	16	CO2	09/23/2025	WNV
San Joaquin	SJCM 8218	2298	Cx pipiens	Escalon	39	CO2	09/23/2025	WNV
Solano	SOLA 33	1057	Cx tarsalis	Dixon	50	CO2	09/23/2025	WNV
Stanislaus	EAST 1093	25268	Cx pipiens	Oakdale	50	BGSENT	09/17/2025	WNV
Stanislaus	EAST 2091	25265	Cx pipiens	Modesto	50	BGSENT	09/12/2025	WNV
Stanislaus	TRLK 1301	1144	Cx pipiens	Denair	50	CO2	09/23/2025	WNV
Stanislaus	TRLK 1308	1150	Cx pipiens	Turlock	50	CO2	09/23/2025	WNV
Stanislaus	TRLK 1612	1131	Cx pipiens	Turlock	50	CO2	09/23/2025	WNV
Stanislaus	TRLK 1966	1125	Cx tarsalis	Hughson	50	CO2	09/23/2025	WNV
Stanislaus	TRLK 407	1138	Cx pipiens	Turlock	50	CO2	09/23/2025	WNV
Tulare	DLNO 216	392	Cx quinquefasciatus	Earlimart	29	CO2	09/16/2025	WNV
Tulare	DLNO 216	394	Cx tarsalis	Earlimart	30	CO2	09/16/2025	WNV
Tulare	DLNO 220	386	Cx quinquefasciatus	Richgrove	50	BGSENT	09/17/2025	WNV
Tulare	DLNO 220	389	Cx tarsalis	Richgrove	50	BGSENT	09/17/2025	WNV
Tulare	DLNO 220	390	Cx tarsalis	Richgrove	50	BGSENT	09/17/2025	WNV
Tulare	DLNO 57	396	Cx tarsalis	Delano	50	CO2	09/16/2025	WNV
Tulare	DLNO 57	397	Cx tarsalis	Delano	29	CO2	09/16/2025	WNV
Tulare	DLNO 75	379	Cx quinquefasciatus	Earlimart	41	BGSENT	09/17/2025	WNV

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Tulare	DLTA 509423	3796	Cx tarsalis	West Goshen	17	BGSENT	09/17/2025	WNV
Tulare	DLTA 509423	3797	Cx quinquefasciatus	West Goshen	50	BGSENT	09/17/2025	WNV
Tulare	DLTA 509482	3787	Cx quinquefasciatus	Visalia	50	CO2	09/17/2025	WNV
Tulare	DLTA 509601	3777	Cx quinquefasciatus	Visalia	50	CO2	09/17/2025	WNV
Tulare	DLTA 509601	3778	Cx quinquefasciatus	Visalia	50	CO2	09/17/2025	WNV
Tulare	DLTA 509601	3779	Cx quinquefasciatus	Visalia	50	CO2	09/17/2025	WNV
Tulare	DLTA 509601	3781	Cx quinquefasciatus	Visalia	50	CO2	09/17/2025	WNV
Tulare	DLTA 509601	3782	Cx quinquefasciatus	Visalia	50	CO2	09/17/2025	WNV
Tulare	DLTA 509601	3783	Cx quinquefasciatus	Visalia	29	CO2	09/17/2025	WNV
Tulare	DLTA 509601	3784	Cx tarsalis	Visalia	17	CO2	09/17/2025	WNV
Tulare	DLTA 509649	3844	Cx stigmatosoma	Exeter	50	CO2	09/18/2025	WNV
Tulare	DLTA 509729	3792	Cx quinquefasciatus	Visalia	50	CO2	09/17/2025	WNV
Tulare	DLTA 512180	3868	Cx stigmatosoma	Orosi	21	GRVD	09/18/2025	WNV
Tulare	TLRE 192434	219	Cx quinquefasciatus	Tulare	39	GRVD	09/18/2025	WNV
Tulare	TLRE 202411	199	Cx quinquefasciatus	Tulare	26	GRVD	09/12/2025	WNV
Tulare	TLRE 202434	222	Cx quinquefasciatus	Tulare	50	GRVD	09/18/2025	WNV
Yolo	SAYO 146025	5201	Cx tarsalis	Davis	37	CO2	09/23/2025	WNV
Yolo	SAYO 147013	5262	Cx pipiens	West Sacramento	2	GRVD	09/23/2025	WNV
Yolo	SAYO 438344	5172	Cx tarsalis	West Sacramento	50	CO2	09/19/2025	WNV
Yolo	SAYO 438400	5161	Cx tarsalis	Davis	50	CO2	09/19/2025	WNV
Yolo	SAYO 438400	5169	Cx tarsalis	Davis	50	CO2	09/19/2025	WNV
Yolo	SAYO 438400	5321	Cx tarsalis	Davis	50	CO2	09/23/2025	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 1	Band 2	Band 3
Butte	BUCO 000004	Gridley	9/17/2025	WNV	3450	3451	3452
Sutter	SUYA 000030	Live Oak	9/18/2025	WNV	3659	3662	
Sutter	SUYA 000015	Robbins	9/18/2025	WNV	3683		

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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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