

California Arbovirus Surveillance Bulletin #27

Week 42 Friday, October 17, 2025



WEEKLY UPDATE

Humans

West Nile virus

A total of 8 new human cases of West Nile virus (WNV) disease were reported this week from 6 counties: Kings (1), Los Angeles (1), Placer (1), San Joaquin (3), Sutter (1), and Tuolumne (1). **These are the first human cases of WNV disease reported in San Joaquin and Sutter counties this year.** In 2025, 67 human cases of WNV disease have been reported from 15 counties. Of the 67 cases, 61 (91%) had neuroinvasive disease and 6 (9%) were fatal. The median age of the case-patients was 65 years and 43 (64%) of the case patients were male. The dates of symptom onset ranged from June 6 to October 4. In addition to the 67 cases of WNV disease, 11 asymptomatic WNV positive blood donors have been reported from 6 counties: Fresno (2), Kern (2), Los Angeles (4), Madera (1), Merced (1), and Tulare (1). At this time last year, 89 human cases of WNV disease had been reported from 22 counties.

Dengue virus

In 2025, there has been 1 locally acquired dengue infection reported from 1 county: Los Angeles (1). Locally acquired and 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 2 new WNV positive dead birds were reported this week from 2 counties: Orange (1) and San Diego (1). In 2025, a total of 148 WNV positive dead birds have been reported from 21 counties. At this time last year, 505 WNV positive dead birds had been reported from 21 counties.

Mosquito Pools

West Nile virus

A total of 29 new WNV positive mosquito pools were reported from 7 counties: Los Angeles (23), Riverside (1), Sacramento (1), San Diego (1), Solano (1), Tulare (1), and Yolo (1). In 2025, a total of 2,695 WNV positive mosquito pools have been reported from 27 counties. At this time last year, 1,990 WNV positive mosquito pools had been reported from 25 counties.

St. Louis encephalitis virus

No new St. Louis encephalitis virus (SLEV) positive mosquito pools were reported this week. In 2025, 105 SLEV positive mosquito pools have been reported from 3 counties: Fresno (1), Imperial (8), and Riverside (96). At this time last year, 34 SLEV positive mosquito pools had been reported from 5 counties.

Sentinel Chickens

A total of 5 new WNV positive sentinel chickens were reported this week from 1 county: Los Angeles (5). In 2025, 60 WNV positive sentinel chickens have been reported from 8 counties. At this time last year, 155 WNV positive chickens had been reported from 16 counties.

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2024 & 2025 YTD West Nile Virus Comparisons		
	2024	2025
Total No. Dead Bird Reports	5,876	7,052
No. Positive Counties	32	33
No. Human Cases	89	67
No. Positive Dead Birds / No. Tested	505 / 1,716	148 / 1,591
No. Positive Mosquito Pools / No. Tested	1,990 / 45,784	2,695 / 48,203
No. Seroconversions / No. Tested	155 / 4,404	60 / 3,612

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	1
Contra Costa		1	3	3	
Fresno	8		11	131	
Imperial				1	
Inyo				1	
Kern	13		1	129	
Kings	7			129	
Lake			1	5	6
Los Angeles	4		5	179	13
Madera				264	
Merced	1		1	42	
Nevada	1				
Orange			3	159	
Placer	6		8	145	
Riverside				14	
Sacramento	2	1	27	67	
San Bernardino				5	
San Diego			28	169	
San Joaquin	3		7	139	
Santa Barbara		1			
Santa Clara			26	3	
Shasta				2	
Solano			3	28	2
Sonoma			1		
Stanislaus	2	1	1	196	
Sutter	1		1	12	11
Tulare	13		8	758	9
Tuolumne	2				
Ventura			1		
Yolo	1	1	5	77	
Yuba				8	4
Totals	67	5	148	2,695	60

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TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	8	0	0
	YTD	67	0	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Dead Birds	Week	2 / 43					
	YTD	148 / 1,591					
Chicken Sera	Week	5 / 75	0 / 75	0 / 75			
	YTD	60 / 3,612	0 / 3,612	0 / 3,612			
Mosquito Pools	Week	29 / 766	0 / 766	0 / 766	0 / 143	0 / 143	0 / 143
	YTD	2,695 / 48,203	105 / 44,696	0 / 44,582	0 / 1,013	0 / 1,013	0 / 1,013

POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Orange	Orange Co VCD	Santa Ana	92706	Lesser Goldfinch	9/23/2025	WNV
San Diego	San Diego Co VCP	San Diego	92103	American Crow	10/13/2025	WNV

Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Los Angeles	GRLA 2007	5978	Cx quinquefasciatus	Toluca Lake	50	GRVD	10/8/2025	WNV
Los Angeles	GRLA 2017	5979	Cx quinquefasciatus	Studio City	50	GRVD	10/8/2025	WNV
Los Angeles	GRLA 2065	849	Cx quinquefasciatus	Gardena	50	GRVD	10/9/2025	WNV
Los Angeles	GRLA 2166	870	Cx quinquefasciatus	Montebello	50	GRVD	10/10/2025	WNV
Los Angeles	GRLA 2278	837	Cx quinquefasciatus	Long Beach	50	GRVD	10/7/2025	WNV
Los Angeles	GRLA 2547	5991	Cx quinquefasciatus	Lake View Terrace	50	GRVD	10/10/2025	WNV
Los Angeles	GRLA 2550	5999	Cx quinquefasciatus	Mission Hills	50	GRVD	10/10/2025	WNV
Los Angeles	GRLA 2574	5967	Cx quinquefasciatus	Sherman Oaks	50	GRVD	10/7/2025	WNV
Los Angeles	GRLA 2580	5966	Cx quinquefasciatus	Sherman Oaks	50	GRVD	10/7/2025	WNV
Los Angeles	GRLA 2637	5971	Cx quinquefasciatus	Van Nuys	50	GRVD	10/7/2025	WNV
Los Angeles	GRLA 2651	5968	Cx quinquefasciatus	Sepulveda Basin	35	GRVD	10/7/2025	WNV
Los Angeles	GRLA 2760	856	Cx quinquefasciatus	Gardena	50	GRVD	10/9/2025	WNV
Los Angeles	GRLA 2801	857	Cx quinquefasciatus	Rancho Dominguez	50	GRVD	10/9/2025	WNV
Los Angeles	GRLA 3027	5976	Cx quinquefasciatus	Studio City	50	GRVD	10/8/2025	WNV
Los Angeles	GRLA 3038	5981	Cx quinquefasciatus	Valley Village	37	GRVD	10/8/2025	WNV
Los Angeles	GRLA 3049	847	Cx quinquefasciatus	Downey	16	GRVD	10/8/2025	WNV
Los Angeles	GRLA 3051	834	Cx quinquefasciatus	Signal Hill	25	GRVD	10/7/2025	WNV
Los Angeles	GRLA 3056	841	Cx quinquefasciatus	Cudahy	50	GRVD	10/8/2025	WNV
Los Angeles	GRLA 3066	5984	Cx quinquefasciatus	Valley Glen	50	GRVD	10/8/2025	WNV
Los Angeles	GRLA 3069	5982	Cx quinquefasciatus	Valley Village	50	GRVD	10/8/2025	WNV

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Los Angeles	GRLA 3080	5983	Cx quinquefasciatus	North Hollywood	50	GRVD	10/8/2025	WNV
Los Angeles	GRLA 3097	5998	Cx quinquefasciatus	Arleta	50	GRVD	10/10/2025	WNV
Los Angeles	GRLA 3102	5980	Cx quinquefasciatus	Studio City	36	GRVD	10/8/2025	WNV
Riverside	COAV 10	6315	Cx tarsalis	Oasis	50	CO2	10/14/2025	WNV
Sacramento	SAYO 280001	5807	Cx pipiens	Rio Vista	9	CO2	10/10/2025	WNV
San Diego	SAND 24201	18228	Cx quinquefasciatus	La Mesa	20	GRVD	10/7/2025	WNV
Solano	SOLA 35	1240	Cx pipiens	Davis	3	CO2	10/10/2025	WNV
Tulare	DLTA 509392	4752	Cx quinquefasciatus	Visalia	50	BGSENT	10/9/2025	WNV
Yolo	SAYO 438342	5910	Cx tarsalis	Davis	50	CO2	10/16/2025	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 1	Band 2
Los Angeles	LACW 001001	Rolling Hills Estates	9/30/2025	WNV	3526	
Los Angeles	LACW 001002	Torrance	9/30/2025	WNV	3534	
Los Angeles	LACW 001049	Inglewood	10/9/2025	WNV	3593	
Los Angeles	LACW 001026	Los Angeles	9/30/2025	WNV	3587	3590

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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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