

California Arbovirus Surveillance Bulletin #29

Week 44 Friday, October 31, 2025



WEEKLY UPDATE

Humans

West Nile virus

A total of 11 new human cases of West Nile virus (WNV) disease were reported this week from 5 counties: Los Angeles (7), Monterey (1), Orange (1), San Joaquin (1), and Santa Clara (1). **These are the first human cases of WNV disease reported from Monterey, Orange, and Santa Clara counties this year.** In 2025, 85 human cases of WNV disease have been reported from 19 counties. Of the 85 cases, 78 (92%) had neuroinvasive disease and 8 (9%) were fatal. The median age of the case-patients was 65 years and 53 (62%) of the case patients were male. The dates of symptom onset ranged from June 6 to October 4. In addition to the 85 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, 107 human cases of WNV disease had been reported from 23 counties.

Dengue virus

In 2025, 1 locally acquired dengue case has been 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 151 WNV positive dead birds have been reported from 21 counties. At this time last year, 521 WNV positive dead birds had been reported from 21 counties.

Mosquito Pools

West Nile virus

A total of 6 new WNV positive mosquito pools were reported this week from 2 counties: Los Angeles (3) and Orange (3). In 2025, a total of 2,730 WNV positive mosquito pools have been reported from 27 counties. At this time last year, 1,998 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 single (1) new WNV positive sentinel chicken was reported this week from 1 county: Los Angeles (1). In 2025, 61 WNV positive sentinel chickens have been reported from 8 counties. At this time last year, 158 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	6,073	7,236
No. Positive Counties	32	35
No. Human Cases	107	85
No. Positive Dead Birds / No. Tested	521 / 1,746	151 / 7,236
No. Positive Mosquito Pools / No. Tested	1,998 / 47,234	2,730 / 50,203
No. Seroconversions / No. Tested	158 / 4,593	61 / 3,853

YTD WNV Activity by Element and County, 2025					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			6		
Butte	4			28	14
Colusa			1	1	1
Contra Costa		1	3	3	
Fresno	9		11	132	
Imperial				1	
Inyo				1	
Kern	13		1	129	
Kings	9			129	
Lake			1	5	6
Los Angeles	11		5	189	14
Madera				264	
Merced	1		1	42	
Monterey	1				
Nevada	1				
Orange	1		4	179	
Placer	6		8	145	
Riverside				14	
Sacramento	2	1	27	67	
San Bernardino				5	
San Diego			30	173	
San Joaquin	6		7	139	
Santa Barbara		1			
Santa Clara	1		26	3	
Shasta				2	
Siskiyou	1				
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	85	5	151	2,730	61

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TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	11	0	0
	YTD	85	0	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Dead Birds	Week	2 / 22					
	YTD	151 / 1,620					
Chicken Sera	Week	1 / 98	0 / 98	0 / 98			
	YTD	61 / 3,853	0 / 3,853	0 / 3,853			
Mosquito Pools	Week	6 / 684	0 / 588	0 / 588	0 / 149	0 / 149	0 / 149
	YTD	2,730 / 50,203	105 / 46,315	0 / 46,201	0 / 1,367	0 / 1,367	0 / 1,367

POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Orange	Orange Co VCD	Mission Viejo	92692	Red-tailed Hawk	10/18/2025	WNV
San Diego	San Diego Co VCP	Chula Vista	91911	American Crow	10/20/2025	WNV

Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Los Angeles	GRLA 3042	892	Cx quinquefasciatus	Hacienda Heights	32	GRVD	10/21/2025	WNV
Los Angeles	GRLA 3047	898	Cx quinquefasciatus	Downey	24	GRVD	10/24/2025	WNV
Los Angeles	SGVA 960	853	Cx quinquefasciatus	Rosemead	22	GRVD	10/28/2025	WNV
Orange	ORCO 1020	3861	Cx quinquefasciatus	Seal Beach	18	GRVD	10/30/2025	WNV
Orange	ORCO 218	3802	Cx quinquefasciatus	Anaheim	30	GRVD	10/28/2025	WNV
Orange	ORCO 29	3852	Cx quinquefasciatus	Santa Ana	50	GRVD	10/29/2025	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band No
Los Angeles	LACW 001004	Lawndale	10/21/2025	WNV	3541

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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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