

California Arbovirus Surveillance Bulletin #31

Week 46 Friday, November 14, 2025



WEEKLY UPDATE

Humans

West Nile virus

A total of 7 new human cases of West Nile virus (WNV) disease were reported this week from 4 counties: Fresno (2), Kern (1), Los Angeles (3), and Solano (1). **This is the first human case of WNV disease reported from Solano County this year.** In 2025, 99 human cases of WNV disease have been reported from 21 counties. Of the 99 cases, 87 (88%) had neuroinvasive disease and 9 (9%) were fatal. The median age of the case-patients was 64 years and 61 (62%) of the case patients were male. The dates of symptom onset ranged from June 6 to October 30. In addition to the 99 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, 112 human cases of WNV disease had been reported from 23 counties.

Dengue virus

In 2025, 6 locally acquired dengue cases have been reported from 1 county: Los Angeles (6). 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 single (1) new WNV positive dead bird was reported this week from 1 county: San Diego (1). In 2025, a total of 152 WNV positive dead birds have been reported from 21 counties. At this time last year, 531 WNV positive dead birds had been reported from 21 counties.

Mosquito Pools

West Nile virus

A total of 5 new WNV positive mosquito pools were reported from 3 counties: Los Angeles (3), San Bernardino (1), and San Diego (1). In 2025, a total of 2,755 WNV positive mosquito pools have been reported from 27 counties. At this time last year, 2,003 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.

Dengue virus

A single (1) new dengue virus (DENV) positive mosquito pool was reported this week from 1 county: Los Angeles (1). **This is the first DENV positive mosquito pool detected in the state.** In 2025, 1 DENV positive mosquito pool has been reported from 1 county.

Sentinel Chickens

A single (1) new WNV positive sentinel chicken was reported this week from 1 county: Los Angeles (1). In 2025, 64 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.

California Arbovirus Surveillance Bulletin #31

Week 46 Friday, November 14, 2025

2024 & 2025 YTD West Nile Virus Comparisons		
	2024	2025
Total No. Dead Bird Reports	6,231	7,374
No. Positive Counties	32	36
No. Human Cases	112	99
No. Positive Dead Birds / No. Tested	531 / 1,766	152 / 1,637
No. Positive Mosquito Pools / No. Tested	2,003 / 47,813	2,755 / 51,551
No. Seroconversions / No. Tested	158 / 4,734	64 / 4,070

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	13		11	132	
Glenn	1				
Imperial				1	
Inyo				1	
Kern	16		1	129	
Kings	9			129	
Lake			1	5	6
Los Angeles	14		5	200	17
Madera				264	
Merced	1		1	42	
Monterey	1				
Nevada	1				
Orange	2		4	184	
Placer	6		8	145	
Riverside				15	
Sacramento	2	1	27	67	
San Bernardino				6	
San Diego			31	179	
San Joaquin	6		7	139	
Santa Barbara		1			
Santa Clara	1		26	3	
Shasta				2	
Siskiyou	1				
Solano	1		3	28	2
Sonoma			1		
Stanislaus	2	1	1	196	
Sutter	2		1	12	11
Tulare	13		8	759	9
Tuolumne	2				
Ventura			1		
Yolo	1	1	5	77	
Yuba				8	4
Totals	99	5	152	2,755	64

California Arbovirus Surveillance Bulletin #31

Week 46 Friday, November 14, 2025

TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	7	0	0
	YTD	99	0	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Dead Birds	Week	1 / 7					
	YTD	152 / 1,637					
Chicken Sera	Week	1 / 102	0 / 102	0 / 102			
	YTD	64 / 4,070	0 / 4,070	0 / 4,070			
Mosquito Pools	Week	5 / 245	0 / 236	0 / 245	0 / 78	1 / 78	0 / 78
	YTD	2,755 / 51,551	105 / 47,540	0 / 47,435	0 / 1,589	1 / 1,589	0 / 1,589

POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
San Diego	San Diego Co VCP	San Diego	92112	Gouldian Finch	9/12/2025	WNV

Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Los Angeles	GRLA 2512	6089	Cx quinquefasciatus	Atwater Village	35	GRVD	11/05/2025	WNV
Los Angeles	GRLA 2936	6091	Cx quinquefasciatus	Burbank	50	GRVD	11/05/2025	WNV
Los Angeles	GRLA 3051	963	Cx quinquefasciatus	Signal Hill	50	GRVD	11/06/2025	WNV
Los Angeles	GLRA 2839	6094	Ae aegypti	Sun Valley	44	BGSENT	11/06/2025	DENV
San Bernardino	SANB 251	440	Cx quinquefasciatus	Redlands	50	GRVD	10/31/2025	WNV
San Diego	SAND 24152	18615	Cx quinquefasciatus	La Mesa	20	GRVD	11/4/2025	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band No
Los Angeles	LACW 001026	Los Angeles	10/28/2025	WNV	3586

California Arbovirus Surveillance Bulletin #31

Week 46 Friday, November 14, 2025

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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