

California Arbovirus Surveillance Bulletin #30

Week 45 Friday, November 7, 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 5 counties: Fresno (3), Glenn (1), Kern (2), Orange (1), and Sutter (1). **This is the first human case of WNV disease reported from Glenn County this year.** In 2025, 92 human cases of WNV disease have been reported from 20 counties. Of the 92 cases, 82 (89%) had neuroinvasive disease and 8 (9%) were fatal. The median age of the case-patients was 65 years and 57 (62%) of the case patients were male. The dates of symptom onset ranged from June 6 to October 9. In addition to the 92 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, 110 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

No new WNV positive dead birds were reported this week. In 2025, a total of 151 WNV positive dead birds have been reported from 21 counties. At this time last year, 522 WNV positive dead birds had been reported from 21 counties.

Mosquito Pools

West Nile virus

A total of 20 new WNV positive mosquito pools were reported from 5 counties: Los Angeles (8), Orange (5), Riverside (1), San Diego (5), and Tulare (1). In 2025, a total of 2,750 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.

Sentinel Chickens

A total of 2 new WNV positive sentinel chickens were reported this week from 1 county: Los Angeles (2). In 2025, 63 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	6,180	7,313
No. Positive Counties	32	36
No. Human Cases	110	92
No. Positive Dead Birds / No. Tested	522 / 1,752	151 / 1,630
No. Positive Mosquito Pools / No. Tested	2,003 / 47,644	2,750 / 51,121
No. Seroconversions / No. Tested	158 / 4,616	63 / 3,968

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	11		11	132	
Glenn	1				
Imperial				1	
Inyo				1	
Kern	15		1	129	
Kings	9			129	
Lake			1	5	6
Los Angeles	11		5	197	16
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				5	
San Diego			30	178	
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	2		1	12	11
Tulare	13		8	759	9
Tuolumne	2				
Ventura			1		
Yolo	1	1	5	77	
Yuba				8	4
Totals	92	5	151	2,750	63

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TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	8	0	0
	YTD	92	0	0

Positive / Total Tested					
WNV	SLEV	WEEV	CHIK	DENV	ZIKA

Dead Birds	Week	0 / 10
	YTD	151 / 1,630

Chicken Sera	Week	2 / 115	0 / 115	0 / 115
	YTD	63 / 3,968	0 / 3,968	0 / 3,968

Mosquito Pools	Week	20 / 624	0 / 510	0 / 510	0 / 114	0 / 114	0 / 114
	YTD	2,750 / 51,121	105 / 47,119	0 / 47,005	0 / 1,497	0 / 1,497	0 / 1,497

POSITIVES

Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Los Angeles	GRLA 2007	6038	Cx quinquefasciatus	Toluca Lake	50	GRVD	10/28/2025	WNV
Los Angeles	GRLA 2032	6054	Cx quinquefasciatus	Northridge	50	GRVD	10/29/2025	WNV
Los Angeles	GRLA 2478	6073	Cx quinquefasciatus	Hansen Dam	50	GRVD	10/31/2025	WNV
Los Angeles	GRLA 2540	6056	Cx quinquefasciatus	Porter Ranch	31	GRVD	10/29/2025	WNV
Los Angeles	GRLA 2554	6059	Cx quinquefasciatus	Winnetka	34	GRVD	10/30/2025	WNV
Los Angeles	GRLA 2555	6049	Cx quinquefasciatus	Encino	46	GRVD	10/29/2025	WNV
Los Angeles	GRLA 3038	6041	Cx quinquefasciatus	Valley Village	44	GRVD	10/28/2025	WNV
Los Angeles	GRLA 3062	938	Cx quinquefasciatus	Los Angeles-Florence-Firestone	50	GRVD	10/31/2025	WNV
Orange	ORCO 213	3973	Cx quinquefasciatus	Garden Grove	7	CO2	11/6/2025	WNV
Orange	ORCO 218	3941	Cx quinquefasciatus	Anaheim	33	BGSENT	11/5/2025	WNV
Orange	ORCO 218	3991	Cx quinquefasciatus	Anaheim	41	BGSENT	11/6/2025	WNV
Orange	ORCO 29	3986	Cx quinquefasciatus	Santa Ana	16	GRVD	11/6/2025	WNV
Orange	ORCO 343	3925	Cx quinquefasciatus	Orange	12	GRVD	11/4/2025	WNV
Riverside	NWST 445	418	Cx quinquefasciatus	Jurupa Valley	50	BGSENT	10/30/2025	WNV
San Diego	SAND 24152	18584	Cx quinquefasciatus	La Mesa	10	GRVD	10/29/2025	WNV
San Diego	SAND 24153	18424	Cx quinquefasciatus	San Diego	10	GRVD	10/21/2025	WNV
San Diego	SAND 24153	18579	Cx quinquefasciatus	San Diego	20	GRVD	10/29/2025	WNV
San Diego	SAND 24201	18434	Cx quinquefasciatus	La Mesa	11	GRVD	10/21/2025	WNV
San Diego	SAND 24201	18574	Cx quinquefasciatus	La Mesa	12	GRVD	10/29/2025	WNV
Tulare	DLTA 509427	5037	Cx quinquefasciatus	Visalia	40	BGSENT	10/30/2025	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 1	Band 2
Los Angeles	LONG 000004	Long Beach	10/27/2025	WNV	4691	4697

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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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