

California Arbovirus Surveillance Bulletin #28

Week 43 Friday, October 24, 2025



WEEKLY UPDATE

Humans

West Nile virus

A total of 6 new human cases of West Nile virus (WNV) disease were reported this week from 4 counties: Butte (1), Kings (2), San Joaquin (2), and Siskiyou (1). **This is the first human case of WNV disease reported from Siskiyou County this year.** In 2025, 74 human cases of WNV disease have been reported from 16 counties. Of the 74 cases, 68 (92%) had neuroinvasive disease and 6 (8%) were fatal. The median age of the case-patients was 65 years and 47 (64%) of the case patients were male. The dates of symptom onset ranged from June 6 to October 4. In addition to the 74 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, 98 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 single (1) new WNV positive dead bird was reported this week from 1 county: San Diego (1). In 2025, a total of 149 WNV positive dead birds have been reported from 21 counties. At this time last year, 507 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 4 counties: Fresno (1), Los Angeles (7), Orange (17), and San Diego (4). In 2025, a total of 2,724 WNV positive mosquito pools have been reported from 27 counties. At this time last year, 1,996 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

No new WNV positive sentinel chickens were reported this week. In 2025, 60 WNV positive sentinel chickens have been reported from 8 counties. At this time last year, 157 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	5,977	7,135
No. Positive Counties	32	34
No. Human Cases	98	74
No. Positive Dead Birds / No. Tested	507 / 1,731	149 / 1,598
No. Positive Mosquito Pools / No. Tested	1,996 / 46,340	2,724 / 49,364
No. Seroconversions / No. Tested	157 / 4,513	60 / 3,755

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	4		5	186	13
Madera				264	
Merced	1		1	42	
Nevada	1				
Orange			3	176	
Placer	6		8	145	
Riverside				14	
Sacramento	2	1	27	67	
San Bernardino				5	
San Diego			29	173	
San Joaquin	5		7	139	
Santa Barbara		1			
Santa Clara			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	74	5	149	2,724	60

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TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	6	0	0
	YTD	74	0	0

Positive / Total Tested					
WNV	SLEV	WEEV	CHIK	DENV	ZIKA

Dead Birds	Week	1 / 7
	YTD	149 / 1,598

Chicken Sera	Week	0 / 144	0 / 144	0 / 144
	YTD	60 / 3,755	0 / 3,755	0 / 3,755

Mosquito Pools	Week	29 / 826	0 / 696	0 / 696	0 / 166	0 / 166	0 / 166
	YTD	2,724 / 49,364	105 / 45,602	0 / 45,488	0 / 1,200	0 / 1,200	0 / 1,200

POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
San Diego	San Diego Co VCP	Chula Vista	91911	American Crow	10/17/2025	WNV

Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Fresno	CNSL 8205	481	Cx quinquefasciatus	Fresno	50	GRVD	10/17/2025	WNV
Los Angeles	GRLA 2268	884	Cx quinquefasciatus	Cerritos	44	GRVD	10/17/2025	WNV
Los Angeles	GRLA 2636	6006	Cx quinquefasciatus	Lake Balboa	44	GRVD	10/15/2025	WNV
Los Angeles	GRLA 2724	6001	Cx quinquefasciatus	Winnetka	21	GRVD	10/15/2025	WNV
Los Angeles	GRLA 2953	880	Cx quinquefasciatus	Santa Fe Springs	50	GRVD	10/17/2025	WNV
Los Angeles	GRLA 3060	881	Cx quinquefasciatus	Norwalk	21	GRVD	10/17/2025	WNV
Los Angeles	LACW 1049	1356	Cx quinquefasciatus	Inglewood	42	GRVD	10/16/2025	WNV
Los Angeles	SGVA 491	828	Cx quinquefasciatus	El Monte	50	GRVD	10/21/2025	WNV
Orange	ORCO 1008	3539	Cx quinquefasciatus	Fullerton	9	GRVD	10/16/2025	WNV
Orange	ORCO 1008	3541	Cx quinquefasciatus	Fullerton	49	GRVD	10/16/2025	WNV
Orange	ORCO 1008	3549	Cx quinquefasciatus	Fullerton	15	GRVD	10/16/2025	WNV
Orange	ORCO 1008	3554	Cx quinquefasciatus	Fullerton	30	GRVD	10/16/2025	WNV
Orange	ORCO 1008	3653	Cx quinquefasciatus	Fullerton	38	GRVD	10/21/2025	WNV
Orange	ORCO 1008	3654	Cx quinquefasciatus	Fullerton	38	GRVD	10/21/2025	WNV
Orange	ORCO 1008	3658	Cx quinquefasciatus	Fullerton	50	GRVD	10/21/2025	WNV
Orange	ORCO 1008	3668	Cx quinquefasciatus	Fullerton	50	GRVD	10/21/2025	WNV
Orange	ORCO 170	3575	Cx quinquefasciatus	Anaheim	30	GRVD	10/16/2025	WNV
Orange	ORCO 218	3525	Cx quinquefasciatus	Anaheim	36	GRVD	10/16/2025	WNV
Orange	ORCO 218	3557	Cx quinquefasciatus	Anaheim	33	GRVD	10/16/2025	WNV

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Orange	ORCO 218	3660	Cx quinquefasciatus	Anaheim	22	GRVD	10/21/2025	WNV
Orange	ORCO 218	3666	Cx quinquefasciatus	Anaheim	41	GRVD	10/21/2025	WNV
Orange	ORCO 317	3579	Cx quinquefasciatus	Fullerton	12	BGSENT	10/16/2025	WNV
Orange	ORCO 317	3591	Cx quinquefasciatus	Fullerton	50	GRVD	10/16/2025	WNV
Orange	ORCO 317	3681	Cx quinquefasciatus	Fullerton	39	GRVD	10/21/2025	WNV
Orange	ORCO 332	3689	Cx quinquefasciatus	Fullerton	34	GRVD	10/21/2025	WNV
San Diego	SAND 23982	18396	Cx quinquefasciatus	San Diego	15	GRVD	10/17/2025	WNV
San Diego	SAND 24152	18340	Cx quinquefasciatus	La Mesa	18	GRVD	10/14/2025	WNV
San Diego	SAND 24201	18344	Cx quinquefasciatus	La Mesa	13	GRVD	10/14/2025	WNV
San Diego	SAND 24569	18322	Cx quinquefasciatus	San Diego	8	BGSENT	10/10/2025	WNV

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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>.

Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch), California Department of Public Health, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Hannah Romo: Hannah.romo@cdph.ca.gov