

California Arbovirus Surveillance Bulletin #26

Week 41 Friday, October 10, 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 4 counties: Fresno (2), Kern (2), Kings (1), and Los Angeles (3). **These are the first human cases of WNV disease reported from Los Angeles County this year.** In 2025, 60 human cases of WNV disease have been reported from 13 counties. Of the 60 cases, 55 (92%) had neuroinvasive disease and 5 (8%) were fatal. The median age of the case-patients was 66 years and 36 (61%) of the case patients were male. The dates of symptom onset ranged from June 6 to September 20. In addition to the 60 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, 83 human cases of WNV disease had been reported from 22 counties.

Dengue virus

No locally acquired dengue infections have been reported in 2025. 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 6 new WNV positive dead birds were reported this week from 4 counties: Los Angeles (1), Merced (1), San Diego (3), and Solano (1). **This is the first WNV positive dead bird from Merced County this year.** In 2025, a total of 146 WNV positive dead birds have been reported from 21 counties. At this time last year, 494 WNV positive dead birds had been reported from 21 counties.

Mosquito Pools

West Nile virus

A total of 61 new WNV positive mosquito pools were reported from 11 counties: Fresno (7), Kern (2), Los Angeles (8), Orange (25), Riverside (1), San Bernardino (1), San Diego (9), San Joaquin (3), Solano (3), Stanislaus (1), and Yolo (1). In 2025, a total of 2,666 WNV positive mosquito pools have been reported from 27 counties. At this time last year, 1,962 WNV positive mosquito pools had been reported from 25 counties.

St. Louis encephalitis virus

A single (1) new St. Louis encephalitis virus (SLEV) positive mosquito pool was reported this week from 1 county: Riverside (1). 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 chicken was reported this week from 1 county: Colusa (1). **This is the first WNV positive sentinel chicken reported from Colusa County this year.** In 2025, 55 WNV positive sentinel chickens have been reported from 8 counties. At this time last year, 153 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	5,764	6,936
No. Positive Counties	32	33
No. Human Cases	83	60
No. Positive Dead Birds / No. Tested	494 / 1,691	146 / 1,548
No. Positive Mosquito Pools / No. Tested	1,962 / 44,253	2,666 / 47,201
No. Seroconversions / No. Tested	153 / 4,285	55 / 3,537

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	9		11	131	
Imperial				1	
Inyo				1	
Kern	13		1	129	
Kings	6			129	
Lake			1	5	6
Los Angeles	3		5	156	8
Madera				264	
Merced	1		1	42	
Nevada	1				
Orange			2	159	
Placer	5		8	145	
Riverside				13	
Sacramento	2	1	27	66	
San Bernardino				5	
San Diego			27	168	
San Joaquin			7	139	
Santa Barbara		1			
Santa Clara			26	3	
Shasta				2	
Solano			3	27	2
Sonoma			1		
Stanislaus	2	1	1	196	
Sutter			1	12	11
Tulare	13		8	757	9
Tuolumne	1				
Ventura			1		
Yolo	1	1	5	76	
Yuba				8	4
Totals	60	5	146	2,666	55

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TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	8	0	0
	YTD	60	0	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Dead Birds	Week	6 / 43					
	YTD	146 / 1,548					
Chicken Sera	Week	1 / 152	0 / 152	0 / 152			
	YTD	55 / 3,537	0 / 3,537	0 / 3,537			
Mosquito Pools	Week	61 / 2,017	1 / 1,824	0 / 1,824	0 / 103	0 / 103	0 / 103
	YTD	2,666 / 47,201	105 / 43,694	0 / 43,580	0 / 801	0 / 801	0 / 801

POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Glendale	91207	House Finch	10/2/2025	WNV
Merced	Merced Co MAD	Gustine	95322	American Crow	10/2/2025	WNV
San Diego	San Diego Co VCP	San Diego	92116	American Crow	10/6/2025	WNV
San Diego	San Diego Co VCP	San Diego	92102	American Crow	10/7/2025	WNV
San Diego	San Diego Co VCP	Chula Vista	91913	American Crow	10/7/2025	WNV
Solano	Solano Co MAD	Davis	95618	American Crow	10/3/2025	WNV

Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Fresno	CNSL 1732	406	Cx quinquefasciatus	Fresno	43	GRVD	10/1/2025	WNV
Fresno	FRWS 100006	271	Cx tarsalis	Dos Palos	50	CO2	10/1/2025	WNV
Fresno	FRWS 30041	309	Cx pipiens	Firebaugh	50	BGSENT	10/3/2025	WNV
Fresno	FRWS 4102	280	Cx tarsalis	Kerman	26	CO2	10/1/2025	WNV
Fresno	FRWS 5110	282	Cx tarsalis	Tranquillity	50	CO2	10/1/2025	WNV
Fresno	FRWS 5110	283	Cx tarsalis	Tranquillity	50	CO2	10/1/2025	WNV
Fresno	FRWS 5116	303	Cx tarsalis	Tranquillity	50	CO2	10/7/2025	WNV
Kern	DLNO 229	420	Cx quinquefasciatus	Delano	50	BGSENT	10/1/2025	WNV
Kern	KERN 2002	514	Cx quinquefasciatus	Bakersfield	20	GRVD	10/3/2025	WNV
Los Angeles	GRLA 2021	5945	Cx quinquefasciatus	Reseda	50	GRVD	9/30/2025	WNV
Los Angeles	GRLA 2100	827	Cx quinquefasciatus	Norwalk	35	GRVD	10/2/2025	WNV
Los Angeles	GRLA 2478	5938	Cx quinquefasciatus	Hansen Dam	44	GRVD	9/30/2025	WNV
Los Angeles	GRLA 2936	5965	Cx quinquefasciatus	Burbank	50	GRVD	10/3/2025	WNV
Los Angeles	GRLA 2937	5964	Cx quinquefasciatus	Burbank	50	GRVD	10/3/2025	WNV
Los Angeles	GRLA 2953	822	Cx quinquefasciatus	Santa Fe Springs	46	GRVD	10/2/2025	WNV
Los Angeles	GRLA 3060	823	Cx quinquefasciatus	Norwalk	27	GRVD	10/2/2025	WNV
Los Angeles	LACW 1054	1317	Cx quinquefasciatus	Inglewood	50	CO2	10/2/2025	WNV
Orange	ORCO 1008	3330	Cx quinquefasciatus	Fullerton	50	GRVD	10/7/2025	WNV

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Orange	ORCO 1008	3332	Cx quinquefasciatus	Fullerton	31	GRVD	10/7/2025	WNV
Orange	ORCO 1008	3333	Cx quinquefasciatus	Fullerton	35	GRVD	10/7/2025	WNV
Orange	ORCO 1008	3339	Cx quinquefasciatus	Fullerton	50	GRVD	10/7/2025	WNV
Orange	ORCO 1009	3308	Cx quinquefasciatus	Garden Grove	4	GRVD	10/3/2025	WNV
Orange	ORCO 1009	3454	Cx quinquefasciatus	Garden Grove	21	GRVD	10/9/2025	WNV
Orange	ORCO 218	3327	Cx quinquefasciatus	Anaheim	39	GRVD	10/7/2025	WNV
Orange	ORCO 218	3345	Cx quinquefasciatus	Anaheim	41	GRVD	10/7/2025	WNV
Orange	ORCO 218	3354	Cx quinquefasciatus	Anaheim	39	GRVD	10/7/2025	WNV
Orange	ORCO 218	3355	Cx quinquefasciatus	Anaheim	50	GRVD	10/7/2025	WNV
Orange	ORCO 218	3428	Cx quinquefasciatus	Anaheim	50	GRVD	10/9/2025	WNV
Orange	ORCO 218	3429	Cx quinquefasciatus	Anaheim	50	GRVD	10/9/2025	WNV
Orange	ORCO 218	3431	Cx quinquefasciatus	Anaheim	49	GRVD	10/9/2025	WNV
Orange	ORCO 218	3432	Cx quinquefasciatus	Anaheim	50	GRVD	10/9/2025	WNV
Orange	ORCO 218	3437	Cx quinquefasciatus	Anaheim	40	GRVD	10/9/2025	WNV
Orange	ORCO 218	3445	Cx quinquefasciatus	Anaheim	50	GRVD	10/9/2025	WNV
Orange	ORCO 218	3446	Cx quinquefasciatus	Anaheim	21	GRVD	10/9/2025	WNV
Orange	ORCO 218	3448	Cx quinquefasciatus	Anaheim	22	GRVD	10/9/2025	WNV
Orange	ORCO 218	3455	Cx quinquefasciatus	Anaheim	50	GRVD	10/9/2025	WNV
Orange	ORCO 238	3484	Cx quinquefasciatus	Anaheim	50	GRVD	10/9/2025	WNV
Orange	ORCO 317	3390	Cx quinquefasciatus	Fullerton	50	GRVD	10/7/2025	WNV
Orange	ORCO 332	3407	Cx quinquefasciatus	Fullerton	37	GRVD	10/7/2025	WNV
Orange	ORCO 388	3443	Cx quinquefasciatus	Huntington Beach	50	GRVD	10/9/2025	WNV
Orange	ORCO 41	3400	Cx quinquefasciatus	Anaheim	21	GRVD	10/7/2025	WNV
Orange	ORCO 81	9997	Aedes aegypti	Seal Beach	2	BGSENT	10/9/2025	WNV
Riverside	COAV 50	5958	Cx tarsalis	Mecca	50	CO2	10/9/2025	WNV
Riverside	COAV 56	5716	Cx tarsalis	North Shore	50	CO2	10/7/2025	SLEV
San Bernardino	SANB 342	401	Cx quinquefasciatus	Fontana	50	GRVD	9/17/2025	WNV
San Diego	SAND 24152	18112	Cx quinquefasciatus	La Mesa	10	GRVD	9/30/2025	WNV
San Diego	SAND 24153	18099	Cx quinquefasciatus	San Diego	15	GRVD	9/30/2025	WNV
San Diego	SAND 24156	18118	Cx quinquefasciatus	La Mesa	9	GRVD	9/30/2025	WNV
San Diego	SAND 24189	18103	Cx quinquefasciatus	La Mesa	10	GRVD	9/30/2025	WNV
San Diego	SAND 24189	18104	Cx quinquefasciatus	La Mesa	10	GRVD	9/30/2025	WNV
San Diego	SAND 24201	18105	Cx quinquefasciatus	La Mesa	13	GRVD	9/30/2025	WNV
San Diego	SAND 24417	18121	Cx quinquefasciatus	San Diego	6	GRVD	9/30/2025	WNV
San Diego	SAND 24417	18125	Cx quinquefasciatus	San Diego	10	GRVD	9/30/2025	WNV
San Diego	SAND 24417	18130	Cx quinquefasciatus	San Diego	10	GRVD	9/30/2025	WNV
San Joaquin	SJCM 8083	2483	Cx pipiens	Escalon	50	CO2	10/7/2025	WNV
San Joaquin	SJCM 8083	2485	Cx pipiens	Escalon	18	CO2	10/7/2025	WNV
San Joaquin	SJCM 8203	2498	Cx tarsalis	Lodi	20	CO2	10/7/2025	WNV
Solano	SOLA 27	1159	Cx tarsalis	Dixon	30	CO2	10/7/2025	WNV
Solano	SOLA 29	1145	Cx tarsalis	Dixon	50	CO2	10/7/2025	WNV
Solano	SOLA 38	1151	Cx tarsalis	Dixon	50	CO2	10/7/2025	WNV
Stanislaus	TRLK 1308	1374	Cx pipiens	Turlock	50	CO2	10/7/2025	WNV
Yolo	SAYO 438339	5780	Cx tarsalis	Woodland	50	CO2	10/7/2025	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band No
Colusa	CLSA 000000	Colusa	9/29/2025	WNV	1840

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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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