

California Arbovirus Surveillance Bulletin #15

Week 30 Friday, July 25, 2025



WEEKLY UPDATE

Humans

West Nile virus

A total of 3 new human cases of West Nile virus (WNV) disease were reported this week from 1 county: Tulare (3). In 2025, 6 human cases of WNV disease have been reported from 3 counties. Of the 6 cases, 4 (67%) had neuroinvasive disease and 1 (16%) was fatal. The median age of the case-patients was 64 years and 5 (83%) of the case patients were male. The dates of symptom onset ranged from June 2 to July 8. At this time last year, 2 human cases of WNV disease had been reported from 2 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 7 new WNV positive dead birds were reported this week from 4 counties: Los Angeles (1), Orange (1), Sacramento (4), and Stanislaus (1). **These are the first WNV positive dead birds from Los Angeles, Orange, and Stanislaus counties this year.** In 2025, a total of 58 WNV positive dead birds have been reported from 12 counties. At this time last year, 156 WNV positive dead birds had been reported from 13 counties.

Mosquito Pools

West Nile virus

A total of 135 new WNV positive mosquito pools were reported from 14 counties: Butte (2), Colusa (1), Fresno (8), Kern (4), Kings (9), Los Angeles (6), Madera (22), Merced (5), Orange (21), Placer (4), Sacramento (4), San Joaquin (2), Stanislaus (10), and Tulare (37). **These are the first detections of WNV activity in Butte, Colusa, and Orange counties this year.** In 2025, a total of 815 WNV positive mosquito pools have been reported from 22 counties. At this time last year, 583 WNV positive mosquito pools had been reported from 24 counties.

St. Louis encephalitis virus

No new St. Louis encephalitis virus (SLEV) positive mosquito pools were reported this week. In 2025, 6 SLEV positive mosquito pools have been reported from 3 counties: Fresno (1), Imperial (4), and Riverside (1). At this time last year, 13 SLEV positive mosquito pools had been reported from 3 counties.

Sentinel Chickens

No seroconversions have been reported in 2025. At this time last year, 11 WNV positive chickens had been reported from 4 counties.

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2024 & 2025 YTD West Nile Virus Comparisons		
	2024	2025
Total No. Dead Bird Reports	3,753	5,195
No. Positive Counties	27	25
No. Human Cases	2	6
No. Positive Dead Birds / No. Tested	156 / 1,003	58 / 998
No. Positive Mosquito Pools / No. Tested	583 / 24,732	815 / 24,439
No. Seroconversions / No. Tested	11 / 2,168	0 / 1,766

YTD WNV Activity by Element and County, 2025					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			5		
Butte				2	
Colusa				1	
Contra Costa			1		
Fresno			6	30	
Imperial				1	
Kern			1	33	
Kings	1			16	
Los Angeles			1	12	
Madera				59	
Merced				8	
Orange			1	21	
Placer				54	
Riverside				1	
Sacramento			9	18	
San Bernardino				1	
San Diego			9	60	
San Joaquin			2	22	
Santa Clara			17		
Shasta				1	
Stanislaus	1		1	46	
Sutter				1	
Tulare	4		5	425	
Yolo				2	
Yuba				1	
Totals	6		58	815	

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TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	3	0	0
	YTD	6	0	0

Positive / Total Tested					
WNV	SLEV	WEEV	CHIK	DENV	ZIKA

Dead Birds	Week	7 / 53
	YTD	58 / 998

Chicken Sera	Week	0 / 137	0 / 137	0 / 137
	YTD	0 / 1,766	0 / 1,766	0 / 1,766

Mosquito Pools	Week	135 / 1,547	0 / 1,413	0 / 1,413	0 / 0	0 / 0	0 / 0
	YTD	815 / 24,439	6 / 22,727	0 / 22,730	0 / 106	0 / 106	0 / 106

POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Los Angeles	91423	American Crow	7/17/2025	WNV
Orange	Orange Co VCD	Garden Grove	92843	Rock Dove (Pigeon)	7/17/2025	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	California Scrub-Jay	7/17/2025	WNV
Sacramento	Sacramento-Yolo MVCD	Elverta	95626	Yellow-billed Magpie	7/21/2025	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	California Scrub-Jay	7/22/2025	WNV
Sacramento	Sacramento-Yolo MVCD	Elverta	95626	California Scrub-Jay	7/23/2025	WNV
Stanislaus	East Side MAD	Modesto	95355	California Scrub-Jay	7/10/2025	WNV

Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Butte	BUCO 176	212	Cx tarsalis	Gridley	50	CO2	07/15/2025	WNV
Butte	BUCO 49	204	Cx tarsalis	Biggs	50	CO2	07/15/2025	WNV
Colusa	CLSA 1003	2	Cx tarsalis	Colusa	50	CO2	07/09/2025	WNV
Fresno	CNSL 1062	243	Cx quinquefasciatus	Fresno	50	GRVD	07/17/2025	WNV
Fresno	CNSL 1295	238	Cx quinquefasciatus	Fresno	50	GRVD	07/16/2025	WNV
Fresno	CNSL 2188	242	Cx quinquefasciatus	Sanger	21	GRVD	07/17/2025	WNV
Fresno	CNSL 315	235	Cx quinquefasciatus	Parlier	50	GRVD	07/16/2025	WNV
Fresno	CNSL 3224	244	Cx quinquefasciatus	Reedley	12	GRVD	07/18/2025	WNV
Fresno	CNSL 9142	236	Cx quinquefasciatus	Clovis	49	GRVD	07/16/2025	WNV
Fresno	FRWS 30041	129	Cx pipiens	Firebaugh	50	BGSENT	07/17/2025	WNV
Fresno	FRWS 4102	137	Cx tarsalis	Kerman	50	CO2	07/22/2025	WNV
Kern	KERN 2007	261	Cx quinquefasciatus	Bakersfield	21	GRVD	07/16/2025	WNV
Kern	KERN 2025	260	Cx quinquefasciatus	Bakersfield	37	GRVD	07/16/2025	WNV

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Kern	KERN 31	252	Cx tarsalis	Arvin	32	CO2	07/15/2025	WNV
Kern	KERN 43	263	Cx quinquefasciatus	Shafter	24	CO2	07/17/2025	WNV
Kings	KNGS 3004	123	Cx pipiens	Lemoore	21	CO2	07/15/2025	WNV
Kings	KNGS 3018	145	Cx tarsalis	Lemoore	50	CO2	07/15/2025	WNV
Kings	KNGS 3028	137	Cx tarsalis	Hanford	50	CO2	07/15/2025	WNV
Kings	KNGS 3028	138	Cx tarsalis	Hanford	50	CO2	07/15/2025	WNV
Kings	KNGS 3028	140	Cx pipiens	Hanford	25	CO2	07/15/2025	WNV
Kings	KNGS 3028	141	Cx stigmatosoma	Hanford	12	CO2	07/15/2025	WNV
Kings	KNGS 3083	125	Cx tarsalis	Lemoore	50	CO2	07/15/2025	WNV
Kings	KNGS 3098	150	Cx pipiens	Hardwick	38	CO2	07/15/2025	WNV
Kings	KNGS 3142	124	Cx tarsalis	Hanford	45	CO2	07/15/2025	WNV
Los Angeles	GRLA 2550	5545	Cx quinquefasciatus	Mission Hills	50	GRVD	07/15/2025	WNV
Los Angeles	GRLA 3038	5531	Cx quinquefasciatus	Valley Village	50	GRVD	07/15/2025	WNV
Los Angeles	GRLA 3046	475	Cx quinquefasciatus	Bellflower	26	GRVD	07/17/2025	WNV
Los Angeles	GRLA 3066	5532	Cx quinquefasciatus	Valley Glen	50	GRVD	07/15/2025	WNV
Los Angeles	GRLA 3076	5534	Cx quinquefasciatus	Valley Glen	50	GRVD	07/15/2025	WNV
Los Angeles	SGVA 987	448	Cx quinquefasciatus	El Monte	50	GRVD	07/22/2025	WNV
Madera	MADR 12345	331	Cx tarsalis	Madera	43	CO2	07/23/2025	WNV
Madera	MADR 12364	324	Cx tarsalis	Madera	8	CO2	07/23/2025	WNV
Madera	MADR 12369	310	Cx tarsalis	Madera, Ca	25	CO2	07/23/2025	WNV
Madera	MADR 12391	264	Cx tarsalis	Madera	10	CO2	07/18/2025	WNV
Madera	MADR 12410	255	Cx tarsalis	Parkwood	36	CO2	07/18/2025	WNV
Madera	MADR 12410	315	Cx tarsalis	Parkwood	50	CO2	07/23/2025	WNV
Madera	MADR 12600	332	Cx tarsalis	Bonadelle Ranchos	22	CO2	07/23/2025	WNV
Madera	MADR 12610	302	Cx tarsalis	Madera	21	CO2	07/22/2025	WNV
Madera	MADR 12611	300	Cx tarsalis	Madera	46	CO2	07/22/2025	WNV
Madera	MADR 12619	263	Cx tarsalis	Parkwood	11	CO2	07/18/2025	WNV
Madera	MADR 12626	257	Cx tarsalis	Biola	15	CO2	07/18/2025	WNV
Madera	MADR 12635	333	Cx tarsalis	Bonadelle Ranchos	20	CO2	07/23/2025	WNV
Madera	MADR 227	317	Cx tarsalis	Madera	6	CO2	07/23/2025	WNV
Madera	MADR 237	321	Cx tarsalis	Madera	50	CO2	07/23/2025	WNV
Madera	MADR 259	323	Cx tarsalis	Madera	26	CO2	07/23/2025	WNV
Madera	MADR 358	309	Cx tarsalis	Firebaugh	50	CO2	07/22/2025	WNV
Madera	MADR 411	334	Cx tarsalis	Madera	13	CO2	07/23/2025	WNV
Madera	MADR 581	293	Cx tarsalis	Madera	13	CO2	07/22/2025	WNV
Madera	MADR 634	326	Cx tarsalis	Madera	39	CO2	07/23/2025	WNV
Madera	MADR 688	297	Cx tarsalis	Madera	16	CO2	07/22/2025	WNV
Madera	MADR 726	320	Cx tarsalis	Madera	50	CO2	07/23/2025	WNV
Madera	MADR 750	272	Cx tarsalis	Firebaugh	50	CO2	07/17/2025	WNV
Merced	MERC 336429	370	Cx pipiens	Delhi	50	BGSENT	07/17/2025	WNV
Merced	MERC 401	447	Cx pipiens	Hilmar	50	CO2	07/22/2025	WNV
Merced	MERC 612	382	Cx pipiens	Delhi	50	CO2	07/17/2025	WNV
Merced	MERC 636427	417	Cx pipiens	Hilmar	50	BGSENT	07/22/2025	WNV
Merced	MERC 725873	438	Cx pipiens	Hilmar	38	BGSENT	07/22/2025	WNV
Orange	ORCO 1009	1599	Cx quinquefasciatus	Garden Grove	50	GRVD	07/22/2025	WNV
Orange	ORCO 1009	1600	Cx quinquefasciatus	Garden Grove	50	GRVD	07/22/2025	WNV
Orange	ORCO 1009	1626	Cx quinquefasciatus	Garden Grove	37	GRVD	07/22/2025	WNV
Orange	ORCO 1009	1636	Cx quinquefasciatus	Garden Grove	43	GRVD	07/22/2025	WNV
Orange	ORCO 1009	1650	Cx quinquefasciatus	Garden Grove	50	GRVD	07/22/2025	WNV
Orange	ORCO 1009	1651	Cx quinquefasciatus	Garden Grove	47	GRVD	07/22/2025	WNV
Orange	ORCO 1015	1587	Cx quinquefasciatus	Orange	50	GRVD	07/22/2025	WNV
Orange	ORCO 218	1611	Cx quinquefasciatus	Anaheim	25	GRVD	07/22/2025	WNV
Orange	ORCO 218	1613	Cx quinquefasciatus	Anaheim	31	GRVD	07/22/2025	WNV
Orange	ORCO 218	1614	Cx quinquefasciatus	Anaheim	31	GRVD	07/22/2025	WNV
Orange	ORCO 218	1620	Cx quinquefasciatus	Anaheim	50	GRVD	07/22/2025	WNV
Orange	ORCO 218	1632	Cx quinquefasciatus	Anaheim	50	GRVD	07/22/2025	WNV
Orange	ORCO 218	1633	Cx quinquefasciatus	Anaheim	50	GRVD	07/22/2025	WNV
Orange	ORCO 218	1638	Cx quinquefasciatus	Anaheim	51	GRVD	07/22/2025	WNV
Orange	ORCO 218	1639	Cx quinquefasciatus	Anaheim	51	GRVD	07/22/2025	WNV
Orange	ORCO 238	1537	Cx quinquefasciatus	Anaheim	39	GRVD	7/16/2025	WNV
Orange	ORCO 3	1472	Cx quinquefasciatus	Garden Grove	30	GRVD	7/15/2025	WNV
Orange	ORCO 3	1577	Cx quinquefasciatus	Garden Grove	46	GRVD	07/22/2025	WNV
Orange	ORCO 336	1458	Cx quinquefasciatus	Anaheim	33	GRVD	7/15/2025	WNV
Orange	ORCO 338	1643	Cx quinquefasciatus	Anaheim	50	GRVD	07/22/2025	WNV
Orange	ORCO 349	1528	Cx quinquefasciatus	Garden Grove	23	GRVD	7/16/2025	WNV
Placer	PLCR 191218	1179	Cx tarsalis	Roseville	50	CO2	07/22/2025	WNV
Placer	PLCR 191218	1180	Cx tarsalis	Roseville	31	CO2	07/22/2025	WNV
Placer	PLCR 197802	1212	Cx tarsalis	Elverta	50	CO2	07/23/2025	WNV

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Placer	PLCR 197802	1214	Cx tarsalis	Elverta	50	CO2	07/23/2025	WNV
Sacramento	SAYO 203033	2247	Cx pipiens	North Highlands	3	GRVD	07/18/2025	WNV
Sacramento	SAYO 205028	2318	Cx pipiens	Orangevale	2	CO2	07/18/2025	WNV
Sacramento	SAYO 214004	2303	Cx tarsalis	Fair Oaks	1	CO2	07/18/2025	WNV
Sacramento	SAYO 271003	2358	Cx tarsalis	Isleton	50	CO2	07/18/2025	WNV
San Joaquin	SJCM 8003	1262	Cx tarsalis	Tracy	50	CO2	07/22/2025	WNV
San Joaquin	SJCM 8083	1300	Cx pipiens	Escalon	43	CO2	07/22/2025	WNV
Stanislaus	EAST 2050	25170	Cx pipiens	Modesto	33	GRVD	7/9/2025	WNV
Stanislaus	EAST 2051	25171	Cx pipiens	Modesto	26	GRVD	7/9/2025	WNV
Stanislaus	EAST 2075	25172	Cx pipiens	Modesto	13	GRVD	7/10/2025	WNV
Stanislaus	EAST 2095	25168	Cx pipiens	Oakdale	50	GRVD	7/3/2025	WNV
Stanislaus	EAST 2096	25174	Cx pipiens	Modesto	50	GRVD	7/10/2025	WNV
Stanislaus	EAST 2096	25175	Cx pipiens	Modesto	50	GRVD	7/10/2025	WNV
Stanislaus	EAST 2096	25176	Cx pipiens	Modesto	18	GRVD	7/10/2025	WNV
Stanislaus	EAST 2098	25177	Cx pipiens	Modesto	39	GRVD	7/10/2025	WNV
Stanislaus	TRLK 1305	436	Cx tarsalis	Patterson	20	CO2	07/22/2025	WNV
Stanislaus	TRLK 432	440	Cx pipiens	Turlock	50	CO2	07/22/2025	WNV
Tulare	DLTA 509237	2499	Cx quinquefasciatus	Visalia	14	BGSENT	07/23/2025	WNV
Tulare	DLTA 509375	2402	Cx quinquefasciatus	Dinuba	40	GRVD	07/17/2025	WNV
Tulare	DLTA 509375	2415	Cx quinquefasciatus	Dinuba	10	BGSENT	07/17/2025	WNV
Tulare	DLTA 509387	2530	Cx quinquefasciatus	Exeter	12	GRVD	07/23/2025	WNV
Tulare	DLTA 509392	2407	Cx quinquefasciatus	Visalia	15	GRVD	07/17/2025	WNV
Tulare	DLTA 509402	2406	Cx quinquefasciatus	Dinuba	16	GRVD	07/17/2025	WNV
Tulare	DLTA 509428	2502	Cx quinquefasciatus	West Goshen	32	CO2	07/23/2025	WNV
Tulare	DLTA 509428	2503	Cx tarsalis	West Goshen	10	CO2	07/23/2025	WNV
Tulare	DLTA 509494	2480	Cx quinquefasciatus	Exeter	50	GRVD	07/22/2025	WNV
Tulare	DLTA 509512	2526	Cx quinquefasciatus	Dinuba	12	GRVD	07/23/2025	WNV
Tulare	DLTA 509512	2527	Cx stigmatosoma	Dinuba	10	GRVD	07/23/2025	WNV
Tulare	DLTA 509557	2528	Cx stigmatosoma	Exeter	14	GRVD	07/23/2025	WNV
Tulare	DLTA 509646	2451	Cx quinquefasciatus	Visalia	50	BGSENT	07/18/2025	WNV
Tulare	DLTA 509646	2452	Cx quinquefasciatus	Visalia	30	BGSENT	07/18/2025	WNV
Tulare	DLTA 509665	2428	Cx quinquefasciatus	Delft Colony	10	BGSENT	07/18/2025	WNV
Tulare	DLTA 509677	2473	Cx tarsalis	Delft Colony	41	CO2	07/22/2025	WNV
Tulare	DLTA 509687	2450	Cx quinquefasciatus	Visalia	15	BGSENT	07/18/2025	WNV
Tulare	DLTA 509690	2510	Cx quinquefasciatus	Visalia	32	CO2	07/23/2025	WNV
Tulare	DLTA 509718	2495	Cx quinquefasciatus	Kingsburg	11	CO2	07/22/2025	WNV
Tulare	DLTA 509758	2467	Cx quinquefasciatus	Visalia	23	BGSENT	07/22/2025	WNV
Tulare	DLTA 509840	2488	Cx quinquefasciatus	Dinuba	50	GRVD	07/22/2025	WNV
Tulare	DLTA 509868	2522	Cx quinquefasciatus	Farmersville	21	GRVD	07/23/2025	WNV
Tulare	DLTA 509877	2520	Cx quinquefasciatus	Farmersville	50	GRVD	07/23/2025	WNV
Tulare	DLTA 509877	2521	Cx quinquefasciatus	Farmersville	12	GRVD	07/23/2025	WNV
Tulare	DLTA 509878	2490	Cx quinquefasciatus	Farmersville	50	GRVD	07/22/2025	WNV
Tulare	DLTA 509878	2491	Cx quinquefasciatus	Farmersville	50	GRVD	07/22/2025	WNV
Tulare	DLTA 509894	2468	Cx quinquefasciatus	Visalia	17	GRVD	07/22/2025	WNV
Tulare	DLTA 509908	2432	Cx quinquefasciatus	Visalia	19	GRVD	07/18/2025	WNV
Tulare	DLTA 509947	2423	Cx quinquefasciatus	Visalia	10	BGSENT	07/18/2025	WNV
Tulare	DLTA 509948	2413	Cx quinquefasciatus	Visalia	11	BGSENT	07/17/2025	WNV
Tulare	DLTA 509972	2410	Cx quinquefasciatus	Visalia	10	GRVD	07/17/2025	WNV
Tulare	DLTA 509989	2458	Cx quinquefasciatus	Visalia	43	BGSENT	07/22/2025	WNV
Tulare	DLTA 511869	2431	Cx quinquefasciatus	Dinuba	11	BGSENT	07/18/2025	WNV
Tulare	DLTA 511869	2449	Cx quinquefasciatus	Dinuba	35	GRVD	07/18/2025	WNV
Tulare	DLTA 512182	2448	Cx quinquefasciatus	Dinuba	20	BGSENT	07/18/2025	WNV
Tulare	TLRE 192531	54	Cx quinquefasciatus	Tulare	50	GRVD	07/16/2025	WNV
Tulare	TLRE 202411	57	Cx quinquefasciatus	Tulare	50	GRVD	07/18/2025	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>.

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