

California Arbovirus Surveillance Bulletin #22

Week 36 Friday, September 6, 2024



WEEKLY UPDATE

Humans

West Nile virus

A total of 11 new human cases of West Nile virus (WNV) disease were reported this week from 9 counties: Butte (2), Kings (1), Orange (1), Sacramento (2), San Bernardino (1), San Joaquin (1), Santa Clara (1), Tehama (1), and Yolo (1). **These are the first human cases of WNV disease reported for Orange, Sacramento, San Joaquin, and Tehama counties this year.** In 2024, 38 human cases of WNV disease were reported from 15 counties. Of the 38 cases, 30 (79%) had neuroinvasive disease and 4 (11%) were fatal. The median age of the case-patients was 57 years and 26 (68%) of the case-patients were male. The dates of symptom onset ranged from May 28 to August 24. In addition to the 38 cases of WNV disease, 9 asymptomatic WNV-positive blood donors have been reported from 6 counties: Butte (1), Fresno (3), Los Angeles (1), San Bernardino (2), Santa Clara (1), and Stanislaus (1). At this time last year, 98 human cases of WNV disease had been reported from 23 counties.

St. Louis encephalitis virus

No human cases of St. Louis encephalitis virus (SLEV) disease have been reported. At this time last year, 1 human case of SLEV disease had been reported from 1 county.

Dead Birds

A total of 39 new WNV positive dead birds were reported from 7 counties: Alameda (3), Placer (1), Sacramento (2), San Joaquin (1), San Mateo (1), Santa Clara (30), and Yolo (1). In 2024, 391 WNV positive dead birds have been reported from 18 counties. At this time last year, 502 WNV positive dead birds had been reported from 26 counties.

Mosquito Pools

West Nile virus

A total of 137 new WNV positive mosquito pools were reported from 19 counties: Alameda (1), Butte (6), Fresno (15), Kern (4), Los Angeles (21), Madera (17), Orange (6), Placer (8), Riverside (5), Sacramento (1), San Bernardino (3), San Joaquin (8), Santa Clara (1), Shasta (3), Stanislaus (11), Sutter (1), Tulare (19), Yolo (6), and Yuba (1). In 2024, 1,523 WNV positive mosquito pools have been reported from 25 counties. At this time last year, 3,455 WNV positive mosquito pools had been reported from 29 counties.

St. Louis encephalitis virus

A total of 3 new SLEV positive mosquito pools were reported from 2 counties: Madera (1) and Tulare (2). **This is the first detection of SLEV activity in Madera County this year.** In 2024, 18 SLEV positive mosquito pools have been reported from 5 counties: Fresno (10), Imperial (1), Kings (1), Madera (1), and Tulare (5). At this time last year, 370 SLEV positive mosquito pools had been reported from 12 counties.

Sentinel Chickens

A total of 18 new WNV positive chickens were reported this week from 7 counties: Butte (7), Merced (1), Nevada (1), Shasta (2), Sutter (4), Tehama (2), and Tulare (1). **This is the first detection of WNV activity in Nevada County and the first detection of WNV positive chickens in Shasta County this year.** In 2024, 93 WNV positive sentinel chickens have been reported from 11 counties. At this time last year, 132 WNV positive chickens had been reported from 17 counties.

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2023 & 2024 YTD West Nile Virus Comparisons		
	2023	2024
Total No. Dead Bird Reports	4,939	4,980
No. Positive Counties	39	30
No. Human Cases	98	38
No. Positive Dead Birds / No. Tested	502 / 1,441	391 / 1,434
No. Positive Mosquito Pools / No. Tested	3,455 / 38,551	1,523 / 35,025
No. Seroconversions / No. Tested	132 / 2,893	93 / 3,478

YTD WNV Activity by Element and County, 2024					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			43	19	
Butte	9		4	64	26
Colusa			1		
Contra Costa	1		6	7	8
Fresno	2			176	
Imperial				2	
Kern	2			39	
Kings	3			63	
Lake			1	13	5
Los Angeles			9	120	
Madera				74	
Merced				28	12
Nevada					1
Orange	1		1	33	
Placer		1	2	81	
Riverside	3		2	214	
Sacramento	2	1	55	47	
San Bernardino	3		10	71	
San Diego		1	2		
San Joaquin	1	1	6	144	
San Mateo			23		
Santa Clara	3		220	30	
Shasta				28	2
Solano			2	10	5
Stanislaus	1			43	
Sutter				30	17
Tehama	1				3
Tulare				109	7
Yolo	3		2	48	
Yuba	3	1	2	30	7
Totals	38	5	391	1,523	93

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TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	11	0	0
	YTD	38	0	0

Positive / Total Tested					
WNV	SLEV	WEEV	CHIK	DENV	ZIKA

Dead Birds	Week	39 / 66
	YTD	391 / 1,434

Chicken Sera	Week	18 / 247	0 / 247	0 / 247
	YTD	93 / 3,478	0 / 3,478	0 / 3,478

Mosquito Pools	Week	137 / 1,296	3 / 1,194	0 / 1,194	0 / 0	0 / 0	0 / 0
	YTD	1,523 / 35,025	18 / 32,487	0 / 32,510	0 / 565	0 / 565	0 / 565

POSITIVES

Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Union City	94587	American Crow	8/29/2024	WNV
Alameda	Alameda Co MAD	Fremont	94538	American Crow	9/2/2024	WNV
Alameda	Alameda Co MAD	Livermore	94550	American Crow	9/3/2024	WNV
Placer	Placer MVCD	Auburn	95602	Sparrow	8/30/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	House Finch	8/27/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95824	Mourning Dove	8/29/2024	WNV
San Joaquin	San Joaquin Co MVCD	Acampo	95220	California Scrub-Jay	9/2/2024	WNV
San Mateo	San Mateo Co MVCD	Atherton	94027	American Crow	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	Campbell	95008	American Crow	8/25/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	House Sparrow	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	Dark-eyed Junco	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95129	Unknown - Crow or Raven	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	House Sparrow	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	Unknown - Crow or Raven	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	8/29/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	8/30/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	8/30/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95131	Unknown - Crow or Raven	9/1/2024	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95050	Cooper's Hawk	9/1/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95117	American Crow	9/3/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	9/3/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95123	Chickadee	9/3/2024	WNV

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Santa Clara	Santa Clara Co VCD	San Jose	95132	American Crow	9/3/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	9/3/2024	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	9/3/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	9/3/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	9/3/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	9/4/2024	WNV
Santa Clara	Santa Clara Co VCD	Los Altos Hills	94022	American Crow	9/4/2024	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94041	American Crow	9/4/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95123	American Crow	9/4/2024	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95051	American Crow	9/4/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95130	American Crow	9/4/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95130	American Crow	9/4/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95120	American Crow	9/4/2024	WNV
Santa Clara	Santa Clara Co VCD	Campbell	95008	American Crow	9/4/2024	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	House Finch	8/29/2024	WNV

Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Alameda	ALCO 218956	33663	Cx tarsalis	Union City	7	CO2	9/4/2024	WNV
Butte	BUCO 146	341	Cx tarsalis	Palermo	36	CO2	8/27/2024	WNV
Butte	BUCO 184	335	Cx tarsalis	Gridley	50	CO2	8/26/2024	WNV
Butte	BUCO 184	337	Cx tarsalis	Gridley	50	CO2	8/26/2024	WNV
Butte	BUCO 184	338	Cx tarsalis	Gridley	50	CO2	8/26/2024	WNV
Butte	BUCO 75	347	Cx tarsalis	Chico	50	CO2	8/28/2024	WNV
Butte	BUCO 84	345	Cx tarsalis	Nelson	50	CO2	8/27/2024	WNV
Fresno	CNSL 3226	522	Cx quinquefasciatus	Reedley	31	GRVD	8/29/2024	WNV
Fresno	CNSL 3421	520	Cx quinquefasciatus	Parlier	50	GRVD	8/28/2024	WNV
Fresno	CNSL 4198	533	Cx quinquefasciatus	Fowler	33	GRVD	8/30/2024	WNV
Fresno	CNSL 5293	184	Cx quinquefasciatus	Selma	16	GRVD	8/28/2024	WNV
Fresno	FRWS 300026	222	Cx tarsalis	Firebaugh, Ca	36	CO2	9/4/2024	WNV
Fresno	FRWS 300028	216	Cx tarsalis	Firebaugh	41	CO2	9/4/2024	WNV
Fresno	FRWS 300031	223	Cx tarsalis	Firebaugh	50	CO2	9/4/2024	WNV
Fresno	FRWS 300070	209	Cx tarsalis	Firebaugh	50	BGSENT	8/29/2024	WNV
Fresno	FRWS 3201	215	Cx tarsalis	Firebaugh	32	CO2	9/4/2024	WNV
Fresno	FRWS 4102	231	Cx tarsalis	Kerman	50	CO2	9/4/2024	WNV
Fresno	FRWS 4102	232	Cx tarsalis	Kerman	50	CO2	9/4/2024	WNV
Fresno	FRWS 4102	233	Cx tarsalis	Kerman	50	CO2	9/4/2024	WNV
Fresno	FRWS 4102	234	Cx tarsalis	Kerman	50	CO2	9/4/2024	WNV
Fresno	FRWS 5116	227	Cx tarsalis	Tranquility	41	CO2	9/4/2024	WNV
Fresno	FRWS 5302	237	Cx tarsalis	Helm	50	CO2	9/4/2024	WNV
Kern	KERN 1114	327	Cx quinquefasciatus	Bakersfield	35	CO2	8/20/2024	WNV
Kern	KERN 118	343	Cx quinquefasciatus	Buttonwillow	49	CO2	8/27/2024	WNV
Kern	KERN 15	337	Cx tarsalis	Bakersfield	32	CO2	8/27/2024	WNV
Kern	KERN 3031	331	Cx tarsalis	Shafter	46	CO2	8/22/2024	WNV
Los Angeles	GRLA 2007	5789	Cx quinquefasciatus	Toluca Lake	50	GRVD	8/27/2024	WNV
Los Angeles	GRLA 2032	5805	Cx quinquefasciatus	Northridge	50	GRVD	8/28/2024	WNV
Los Angeles	GRLA 2034	5801	Cx quinquefasciatus	Tarzana	50	GRVD	8/28/2024	WNV
Los Angeles	GRLA 2321	665	Cx quinquefasciatus	Carson	45	GRVD	8/28/2024	WNV
Los Angeles	GRLA 2476	5810	Cx quinquefasciatus	Sunland	47	GRVD	8/29/2024	WNV
Los Angeles	GRLA 2539	5807	Cx quinquefasciatus	Porter Ranch	17	BGSENT	8/28/2024	WNV
Los Angeles	GRLA 2540	5808	Cx quinquefasciatus	Porter Ranch	42	GRVD	8/28/2024	WNV
Los Angeles	GRLA 2555	5800	Cx quinquefasciatus	Encino	50	GRVD	8/28/2024	WNV
Los Angeles	GRLA 2953	674	Cx quinquefasciatus	Santa Fe Springs	38	GRVD	8/29/2024	WNV
Los Angeles	GRLA 3000	5813	Cx quinquefasciatus	Sun Valley	34	GRVD	8/29/2024	WNV
Los Angeles	GRLA 3038	5791	Cx quinquefasciatus	Valley Village	50	GRVD	8/27/2024	WNV
Los Angeles	GRLA 3040	673	Cx quinquefasciatus	La Mirada	33	GRVD	8/29/2024	WNV
Los Angeles	GRLA 3076	5796	Cx quinquefasciatus	Valley Glen	50	GRVD	8/27/2024	WNV
Los Angeles	GRLA 3088	5815	Cx quinquefasciatus	Pacoima	37	GRVD	8/29/2024	WNV
Los Angeles	GRLA 3097	5817	Cx quinquefasciatus	Arleta	45	GRVD	8/29/2024	WNV
Los Angeles	GRLA 3102	5790	Cx quinquefasciatus	Studio City	47	GRVD	8/27/2024	WNV
Los Angeles	GRLA 3133	5809	Cx quinquefasciatus	San Fernando	50	GRVD	8/29/2024	WNV
Los Angeles	SGVA 458	632	Cx quinquefasciatus	Covina	20	GRVD	9/4/2024	WNV

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Los Angeles	SGVA 62	626	Cx quinquefasciatus	Covina	33	GRVD	9/4/2024	WNV
Los Angeles	SGVA 64	641	Cx quinquefasciatus	West Covina	44	GRVD	9/4/2024	WNV
Los Angeles	SGVA 953	631	Cx quinquefasciatus	Covina	34	GRVD	9/4/2024	WNV
Madera	MADR 1097	519	Cx tarsalis	Madera	30	CO2	8/28/2024	WNV
Madera	MADR 1097	519	Cx tarsalis	Madera	30	CO2	8/28/2024	SLEV
Madera	MADR 12	511	Cx quinquefasciatus	Madera	50	CO2	8/28/2024	WNV
Madera	MADR 208	514	Cx quinquefasciatus	Madera	50	CO2	8/28/2024	WNV
Madera	MADR 232	504	Cx quinquefasciatus	Chowchilla	50	CO2	8/27/2024	WNV
Madera	MADR 259	540	Cx tarsalis	Madera	44	CO2	8/30/2024	WNV
Madera	MADR 309	538	Cx quinquefasciatus	Madera	34	CO2	8/30/2024	WNV
Madera	MADR 3191	532	Cx tarsalis	Firebaugh	50	CO2	8/29/2024	WNV
Madera	MADR 697	530	Cx tarsalis	Firebaugh	50	CO2	8/29/2024	WNV
Madera	MADR 704	508	Cx tarsalis	Madera	50	CO2	8/28/2024	WNV
Madera	MADR 706	510	Cx tarsalis	Madera	45	CO2	8/28/2024	WNV
Madera	MADR 747	505	Cx tarsalis	Chowchilla	50	CO2	8/27/2024	WNV
Madera	MADR 752	527	Cx tarsalis	Firebaugh	50	CO2	8/29/2024	WNV
Madera	MADR 760	500	Cx quinquefasciatus	Chowchilla	50	CO2	8/27/2024	WNV
Madera	MADR 765	525	Cx tarsalis	Firebaugh	50	CO2	8/29/2024	WNV
Madera	MADR 769	523	Cx tarsalis	Madera	18	CO2	8/28/2024	WNV
Madera	MADR 770	524	Cx tarsalis	Madera	50	CO2	8/28/2024	WNV
Madera	MADR 975	515	Cx quinquefasciatus	Madera	50	CO2	8/28/2024	WNV
Orange	ORCO 170	2332	Cx quinquefasciatus	Anaheim	47	GRVD	9/4/2024	WNV
Orange	ORCO 300	2380	Cx quinquefasciatus	Westminster	32	GRVD	9/5/2024	WNV
Orange	ORCO 326	2359	Cx quinquefasciatus	La Habra	9	GRVD	9/4/2024	WNV
Orange	ORCO 329	2350	Cx quinquefasciatus	Fullerton	30	GRVD	9/4/2024	WNV
Orange	ORCO 332	2358	Cx quinquefasciatus	Fullerton	39	GRVD	9/4/2024	WNV
Orange	ORCO 370	2320	Cx quinquefasciatus	Santa Ana	50	GRVD	9/4/2024	WNV
Placer	PLCR 1023	1249	Cx stigmatosoma	Roseville	3	CO2	9/3/2024	WNV
Placer	PLCR 139	1258	Cx erythrothorax	Roseville	2	CO2	9/3/2024	WNV
Placer	PLCR 139	1259	Cx tarsalis	Roseville	50	CO2	9/3/2024	WNV
Placer	PLCR 139	1260	Cx tarsalis	Roseville	50	CO2	9/3/2024	WNV
Placer	PLCR 191218	1270	Cx tarsalis	Roseville	50	CO2	9/3/2024	WNV
Placer	PLCR 191235	1305	Cx tarsalis	Newcastle	6	CO2	9/4/2024	WNV
Placer	PLCR 197802	1269	Cx tarsalis	Elverta	2	CO2	9/3/2024	WNV
Placer	PLCR 719276	1243	Cx tarsalis	Roseville	33	CO2	9/3/2024	WNV
Riverside	COAV 35	4927	Cx tarsalis	Mecca	50	CO2	9/4/2024	WNV
Riverside	COAV 778	4952	Cx quinquefasciatus	La Quinta	47	BGSENT	9/4/2024	WNV
Riverside	NWST 110	262	Cx tarsalis	Corona	50	BGSENT	8/22/2024	WNV
Riverside	NWST 37	275	Cx quinquefasciatus	Eastvale	50	BGSENT	8/30/2024	WNV
Riverside	NWST 418	271	Cx quinquefasciatus	Eastvale	50	BGSENT	8/29/2024	WNV
Sacramento	SAYO 203032	4263	Cx tarsalis	Sacramento	22	CO2	9/4/2024	WNV
San Bernardino	WVAL 2063	1958	Cx quinquefasciatus	Chino Hills	12	BGSENT	9/5/2024	WNV
San Bernardino	WVAL 5006	1909	Cx quinquefasciatus	Rancho Cucamonga	15	GRVD	9/4/2024	WNV
San Bernardino	WVAL 9005	1896	Cx quinquefasciatus	Upland	14	GRVD	9/4/2024	WNV
San Joaquin	SJCM 8010	1465	Cx tarsalis	Ripon	40	CO2	9/4/2024	WNV
San Joaquin	SJCM 8010	1466	Cx pipiens	Ripon	50	CO2	9/4/2024	WNV
San Joaquin	SJCM 8010	1467	Cx pipiens	Ripon	29	CO2	9/4/2024	WNV
San Joaquin	SJCM 8204	1504	Cx tarsalis	Stockton	46	CO2	9/4/2024	WNV
San Joaquin	SJCM 8206	1508	Cx tarsalis	Lodi	50	CO2	9/4/2024	WNV
San Joaquin	SJCM 8206	1509	Cx tarsalis	Lodi	50	CO2	9/4/2024	WNV
San Joaquin	SJCM 8206	1510	Cx tarsalis	Lodi	50	CO2	9/4/2024	WNV
San Joaquin	SJCM 8206	1512	Cx pipiens	Lodi	6	CO2	9/4/2024	WNV
Santa Clara	STCL 32074	2629	Cx tarsalis	Palo Alto	10	CO2	8/29/2024	WNV
Shasta	SHAS 110	678	Cx pipiens	Redding	50	CO2	9/4/2024	WNV
Shasta	SHAS 629	690	Cx pipiens	Anderson	50	CO2	9/4/2024	WNV
Shasta	SHAS 917	675	Cx tarsalis	Redding	47	CO2	9/4/2024	WNV
Stanislaus	TRLK 1673	539	Cx pipiens	Patterson	6	CO2	9/4/2024	WNV
Stanislaus	TRLK 22171	590	Cx pipiens	Turlock	50	CO2	8/28/2024	WNV
Stanislaus	TRLK 2400	542	Cx tarsalis	Newman	19	CO2	9/4/2024	WNV
Stanislaus	TRLK 24305	592	Cx pipiens	Turlock	50	CO2	8/28/2024	WNV
Stanislaus	TRLK 305	520	Cx pipiens	Grayson	34	CO2	9/4/2024	WNV
Stanislaus	TRLK 312	543	Cx tarsalis	Newman	50	CO2	9/4/2024	WNV
Stanislaus	TRLK 312	544	Cx tarsalis	Newman	50	CO2	9/4/2024	WNV
Stanislaus	TRLK 424	535	Cx pipiens	Patterson	50	CO2	9/4/2024	WNV
Stanislaus	TRLK 424	537	Cx tarsalis	Patterson	50	CO2	9/4/2024	WNV
Stanislaus	TRLK 437	528	Cx tarsalis	Patterson	40	CO2	9/4/2024	WNV

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Stanislaus	TRLK 9768	518	Cx pipiens	Modesto	33	CO2	9/4/2024	WNV
Sutter	SUYA 44	417	Cx tarsalis	Pleasant Grove	29	CO2	8/27/2024	WNV
Tulare	DLNO 0	146	Cx tarsalis	Delano	30	CO2	8/15/2024	WNV
Tulare	DLNO 0	157	Cx quinquefasciatus	Delano	45	CO2	8/30/2024	WNV
Tulare	DLNO 224	151	Cx tarsalis	Ducor	45	CO2	8/23/2024	WNV
Tulare	DLNO 57	159	Cx tarsalis	Delano	50	CO2	8/30/2024	WNV
Tulare	DLTA 300012	2785	Cx quinquefasciatus	Visalia	50	BGSENT	8/27/2024	WNV
Tulare	DLTA 300012	2786	Cx quinquefasciatus	Visalia	50	BGSENT	8/27/2024	WNV
Tulare	DLTA 64102	2779	Cx tarsalis	Dinuba	26	CO2	8/27/2024	WNV
Tulare	DLTA 64102	2780	Cx quinquefasciatus	Dinuba	12	CO2	8/27/2024	WNV
Tulare	DLTA 740744	2756	Cx quinquefasciatus	London	50	CO2	8/27/2024	SLEV
Tulare	DLTA 83222	2820	Cx tarsalis	Goshen	31	BGSENT	8/28/2024	WNV
Tulare	DLTA 83222	2821	Cx quinquefasciatus	Goshen	48	BGSENT	8/28/2024	WNV
Tulare	DLTA 8324	2789	Cx quinquefasciatus	Goshen	50	BGSENT	8/27/2024	WNV
Tulare	DLTA 841413	2798	Cx quinquefasciatus	Visalia	50	BGSENT	8/27/2024	WNV
Tulare	DLTA 841413	2799	Cx quinquefasciatus	Visalia	50	BGSENT	8/27/2024	WNV
Tulare	DLTA 841621	2795	Cx tarsalis	Visalia	7	BGSENT	8/27/2024	WNV
Tulare	DLTA 841621	2796	Cx quinquefasciatus	Visalia	21	BGSENT	8/27/2024	WNV
Tulare	DLTA 84231	2761	Cx quinquefasciatus	Visalia	47	BGSENT	8/27/2024	WNV
Tulare	DLTA 94032	2764	Cx quinquefasciatus	Visalia	20	BGSENT	8/27/2024	WNV
Tulare	TLRE 192508	101	Cx quinquefasciatus	Visalia	50	GRVD	8/27/2024	WNV
Tulare	TLRE 192531	104	Cx quinquefasciatus	Tulare	44	GRVD	8/28/2024	WNV
Tulare	TLRE 192531	104	Cx quinquefasciatus	Tulare	44	GRVD	8/28/2024	SLEV
Yolo	SAYO 103007	4148	Cx tarsalis	Dunnigan	50	CO2	9/4/2024	WNV
Yolo	SAYO 125016	4108	Cx tarsalis	Woodland	19	CO2	8/30/2024	WNV
Yolo	SAYO 135006	4118	Cx tarsalis	Woodland	50	CO2	8/30/2024	WNV
Yolo	SAYO 145016	4221	Cx tarsalis	Davis	30	CO2	9/4/2024	WNV
Yolo	SAYO 146002	4229	Cx tarsalis	Davis	50	CO2	9/4/2024	WNV
Yolo	SAYO 146006	4235	Cx tarsalis	Davis	41	CO2	9/4/2024	WNV
Yuba	SUYA 37	421	Cx tarsalis	Marysville	20	CO2	8/27/2024	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02
Butte	BUCO 1	Chico	8/28/2024	WNV	2202	
Butte	BUCO 2	Oroville	8/28/2024	WNV	2211	2212
Butte	BUCO 3	Oroville	8/28/2024	WNV	2218	
Butte	BUCO 6	Chico	8/28/2024	WNV	2235	2236
Butte	BUCO 7	Chico	8/28/2024	WNV	2240	
Merced	MERC 1302	Los Banos	8/30/2024	WNV	2373	
Nevada	NEVA 9	Grass Valley	8/27/2024	WNV	3124	
Shasta	BURN 1	Downtown Burney	8/27/2024	WNV	2959	
Shasta	BURN 2	Burney	8/27/2024	WNV	2963	
Sutter	SUYA 14	Sutter	8/29/2024	WNV	3311	3313
Sutter	SUYA 15	Robbins	8/29/2024	WNV	3329	
Sutter	SUYA 30	Live Oak	8/29/2024	WNV	3308	
Tehama	TEHA 1	Red Bluff	8/28/2024	WNV	3342	3348
Tulare	TLRE 8	Tulare	8/30/2024	WNV	3384	

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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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