

California Arbovirus Surveillance Bulletin #24

Week 38 Friday, September 22, 2023



WEEKLY UPDATE

Humans

West Nile virus

A total of 29 new human cases of West Nile virus (WNV) were reported this week from 12 counties: Butte (1), Fresno (2), Glenn (1), Los Angeles (2), Madera (3), Merced (1), Sacramento (7), San Bernardino (2), San Joaquin (1), Shasta (2), Stanislaus (5), and Yolo (2). **These are the first human cases of WNV reported from Fresno County this year.** In 2023, a total of 153 human cases of WNV have been reported from 25 counties. Of the 153 cases, 109 (71%) had neuroinvasive disease and 6 (4%) were fatal. The median age of the case-patients was 58 years and 99 (65%) of the case-patients were male. The dates of symptom onset ranged from June 30 to September 3. In addition to the 153 WNV human cases, 16 asymptomatic WNV-positive blood donors have been reported from 10 counties: Amador (1), Butte (1), Fresno (2), Kings (2), Los Angeles (3), Riverside (1), San Bernardino (2), San Mateo (1), Stanislaus (1), and Yolo (2). At this time last year, 69 WNV human cases had been reported from 17 counties.

St. Louis encephalitis virus

A single (1) case of St. Louis encephalitis virus (SLEV) was reported this week from 1 county: Stanislaus (1). **This is the first human case of SLEV reported from Stanislaus County this year.** In 2023, 2 SLEV human cases have been reported from 2 counties. At this time last year, 5 SLEV human cases had been reported from 4 counties.

Dead Birds

A total of 87 new WNV positive dead birds were identified from 14 counties: Alameda (18), Contra Costa (9), El Dorado (1), Lake (3), Los Angeles (6), Placer (1), Riverside (10), Sacramento (12), San Benito (1), San Bernardino (1), San Diego (2), Santa Clara (16), Sonoma (1), and Yolo (6). **This is the first WNV positive dead bird for San Benito County this year.** In 2023, 654 WNV positive dead birds have been reported from 29 counties. At this time last year, 154 WNV positive dead birds had been reported from 22 counties.

Mosquito Pools

West Nile virus

A total of 251 new WNV positive mosquito pools were identified from 20 counties: Alameda (4), Butte (1), Contra Costa (2), Fresno (12), Kern (7), Kings (9), Los Angeles (46), Madera (12), Merced (4), Napa (1), Orange (21), Placer (5), Riverside (37), Sacramento (6), San Bernardino (15), San Joaquin (15), Shasta (7), Stanislaus (17), Tulare (25), and Yolo (5). In 2023, 3,983 WNV positive mosquito pools have been reported from 30 counties. At this time last year, 2,817 WNV positive mosquito pools had been reported from 26 counties.

St. Louis encephalitis virus

A total of 116 new SLEV positive mosquito pools were identified from 9 counties: Fresno (18), Kern (10), Kings (11), Madera (7), Merced (4), Riverside (5), Shasta (2), Stanislaus (12), and Tulare (47). **This is the first SLEV positive mosquito pool from Napa County this year.** In 2023, 552 SLEV positive mosquito pools have been reported from 15 counties. At this time last year, 115 SLEV positive mosquito pools had been reported from 8 counties.

Sentinel Chickens

West Nile virus

A total of 8 new WNV positive chickens were reported this week from 5 counties: Butte (1), Calaveras (1), Contra Costa (2), Sutter (2), and Yolo (2). In 2023, 155 WNV positive chickens have been reported from 17 counties. At this time last year, 119 WNV positive chickens had been reported from 13 counties.

St. Louis encephalitis virus

A single (1) new SLEV positive chicken was reported this week from 1 county: Shasta (1). **This is the first SLEV positive chicken in Shasta County this year.** In 2023, 1 SLEV positive chicken has been reported from 1 county. At this time last year, no SLEV positive chickens had been reported.

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2022 & 2023 YTD West Nile Virus Comparisons		
	2022	2023
Total No. Dead Bird Reports	4,038	5,490
No. Positive Counties	32	40
No. Human Cases	69	153
No. Positive Dead Birds / No. Tested	154 / 1,103	654 / 1,641
No. Positive Mosquito Pools / No. Tested	2,817 / 32,801	3,983 / 43,322
No. Seroconversions / No. Tested	119 / 4,204	155 / 3,031

YTD WNV Activity by Element and County, 2023					
County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			47	12	3
Butte	17	1	2	68	31
Calaveras					3
Colusa			2	2	2
Contra Costa	1		50	18	7
El Dorado	1		3		
Fresno	2	1	1	212	
Glenn	4			1	
Imperial				3	
Inyo				2	
Kern	4	2		99	
Kings	4	1		66	
Lake	4		6	25	
Los Angeles	14		33	400	13
Madera	4	1	1	204	
Marin			2		
Merced	3	1		41	22
Napa		1	3	7	
Nevada			1		2
Orange	2	1		92	
Placer	2	1	43	177	
Riverside	4		60	104	
Sacramento	19	2	185	336	5
San Benito			1		4
San Bernardino	12	1	11	142	
San Diego			4		
San Joaquin	10	1	19	591	
San Luis Obispo		2			
San Mateo			2		
Santa Clara	1	1	77	14	
Shasta	3		2	141	5
Solano	1		15	24	11
Sonoma			9	2	
Stanislaus	8	2	6	280	
Sutter	4		6	66	19
Tehama					4
Tulare	14	1	5	537	10
Ventura			3		
Yolo	10		55	291	7
Yuba	5	1		26	7
Totals	153	21	654	3,983	155

*Asymptomatic human infections are not included.

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YTD SLEV Activity by Element and County, 2023			
County	Humans	Mosquito Pools	Sentinel Chickens
Fresno		114	
Imperial		3	
Inyo		1	
Kern	1	59	
Kings		30	
Madera		43	
Merced		8	
Napa		1	
Placer		1	
Riverside		108	
San Joaquin		5	
Shasta		3	1
Stanislaus	1	17	
Tulare		157	
Yolo		2	
Totals	2	552	1

TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	29	1	0
	YTD	153	2	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Dead Birds	Week	87 / 119					
	YTD	654 / 1,641					
Chicken Sera	Week	8 / 123	1 / 123	0 / 123			
	YTD	155 / 3,031	1 / 3,031	0 / 3,031			
Mosquito Pools	Week	251 / 2,402	116 / 2,152	0 / 2,209	0 / 188	0 / 188	0 / 188
	YTD	3,983 / 43,322	552 / 39,098	0 / 39,155	0 / 631	0 / 631	0 / 631

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported
Alameda	Alameda Co MAD	Albany	94706	American Crow	9/19/2023
Alameda	Alameda Co MAD	Fremont	94536	American Crow	9/14/2023
Alameda	Alameda Co MAD	Fremont	94539	House Finch	9/15/2023
Alameda	Alameda Co MAD	Fremont	94536	American Crow	9/20/2023
Alameda	Alameda Co MAD	Fremont	94536	American Crow	9/20/2023
Alameda	Alameda Co MAD	Hayward	94544	American Crow	9/19/2023
Alameda	Alameda Co MAD	Livermore	94551	House Sparrow	9/18/2023
Alameda	Alameda Co MAD	Livermore	94551	American Crow	9/13/2023
Alameda	Alameda Co MAD	Livermore	94550	American Crow	9/15/2023
Alameda	Alameda Co MAD	Livermore	94550	American Crow	9/15/2023
Alameda	Alameda Co MAD	Livermore	94550	Unknown - Crow or Raven	9/17/2023
Alameda	Alameda Co MAD	Livermore	94550	American Crow	9/20/2023
Alameda	Alameda Co MAD	Newark	94560	American Crow	9/14/2023
Alameda	Alameda Co MAD	Newark	94560	American Crow	9/19/2023
Alameda	Alameda Co MAD	Pleasanton	94566	House Finch	9/14/2023
Alameda	Alameda Co MAD	Pleasanton	94588	American Crow	9/18/2023
Alameda	Alameda Co MAD	Pleasanton	94588	American Crow	9/18/2023
Alameda	Alameda Co MAD	San Lorenzo	94580	Unknown - Crow or Raven	9/18/2023
Contra Costa	Contra Costa MVCD	Clayton	94517	American Crow	9/13/2023
Contra Costa	Contra Costa MVCD	Concord	94520	American Crow	9/9/2023
Contra Costa	Contra Costa MVCD	Concord	94518	California Scrub-Jay	9/11/2023
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	9/19/2023
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	9/19/2023
Contra Costa	Contra Costa MVCD	Crockett	94525	American Crow	9/11/2023
Contra Costa	Contra Costa MVCD	Danville	94526	American Crow	9/19/2023
Contra Costa	Contra Costa MVCD	Walnut Creek	94597	American Crow	9/18/2023
Contra Costa	Contra Costa MVCD	Walnut Creek	94597	American Crow	9/19/2023
El Dorado	El Dorado Co Env Management	Rescue	95672	California Scrub-Jay	9/3/2023
Lake	Lake Co VCD	Clearlake	95422	American Crow	9/6/2023
Lake	Lake Co VCD	Kelseyville	95451	California Scrub-Jay	9/5/2023
Lake	Lake Co VCD	Lakeport	95453	California Scrub-Jay	9/14/2023
Los Angeles	Greater Los Angeles Co VCD - SFS	Lakewood	90712	American Crow	9/17/2023
Los Angeles	Greater Los Angeles Co VCD - SFS	Long Beach	90808	American Crow	9/15/2023
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Glendale	91202	House Finch	9/12/2023
Los Angeles	Los Angeles Co West VCD	Los Angeles	90036	American Crow	9/14/2023
Los Angeles	Los Angeles Co West VCD	Los Angeles	90064	American Crow	9/15/2023
Los Angeles	San Gabriel Valley MVCD	Pomona	91767	American Crow	9/21/2023
Placer	Placer MVCD	Rocklin	95765	Mourning Dove	9/20/2023
Riverside	Northwest Mosquito VCD	Corona	92878	Unknown	9/1/2023
Riverside	Northwest Mosquito VCD	Mira Loma	91752	American Crow	8/30/2023
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	8/29/2023
Riverside	Northwest Mosquito VCD	Norco	92860	Red-tailed Hawk	8/29/2023
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	8/29/2023
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	8/29/2023
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	8/31/2023
Riverside	Northwest Mosquito VCD	Riverside	92504	American Crow	8/31/2023
Riverside	Northwest Mosquito VCD	Riverside	92504	American Crow	9/2/2023
Riverside	Northwest Mosquito VCD	Riverside	92508	American Crow	9/11/2023
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	American Crow	9/14/2023
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	American Crow	9/12/2023
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	House Finch	9/16/2023
Sacramento	Sacramento-Yolo MVCD	Gold River	95670	American Crow	9/9/2023
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	Yellow-billed Magpie	9/11/2023
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	California Towhee	9/18/2023
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	House Finch	9/11/2023
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	Black Phoebe	9/9/2023
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Mourning Dove	9/11/2023
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	House Finch	9/13/2023
Sacramento	Sacramento-Yolo MVCD	Sacramento	95841	American Crow	9/17/2023
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	California Scrub-Jay	9/18/2023
San Benito	San Benito County	Hollister	95023	California Scrub-Jay	9/13/2023
San Bernardino	West Valley MVCD	Rancho Cucamonga	91739	American Crow	9/17/2023

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San Diego	San Diego Co VCP	el cajon	92020	American Crow	9/21/2023
San Diego	San Diego Co VCP	Fallbrook	92028	American Crow	9/18/2023
Santa Clara	Santa Clara Co VCD	Campbell	95008	Unknown - Crow or Raven	9/14/2023
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	9/14/2023
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	9/18/2023
Santa Clara	Santa Clara Co VCD	Morgan Hill	95037	American Crow	9/16/2023
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	9/18/2023
Santa Clara	Santa Clara Co VCD	San Jose	95121	American Crow	9/14/2023
Santa Clara	Santa Clara Co VCD	San Jose	95127	American Crow	9/14/2023
Santa Clara	Santa Clara Co VCD	San Jose	95126	American Crow	9/14/2023
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	9/14/2023
Santa Clara	Santa Clara Co VCD	San Jose	95129	Cooper's Hawk	9/16/2023
Santa Clara	Santa Clara Co VCD	San Jose	95126	American Crow	9/16/2023
Santa Clara	Santa Clara Co VCD	San Jose	95131	American Crow	9/18/2023
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	9/18/2023
Santa Clara	Santa Clara Co VCD	Santa Clara	95054	American Crow	9/14/2023
Santa Clara	Santa Clara Co VCD	Saratoga	95070	Unknown - Crow or Raven	9/17/2023
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Robin	9/18/2023
Sonoma	Marin-Sonoma MVCD	Petaluma	94954	American Crow	9/12/2023
Yolo	Sacramento-Yolo MVCD	Davis	95618	California Scrub-Jay	9/8/2023
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/12/2023
Yolo	Sacramento-Yolo MVCD	Davis	95616	Mourning Dove	9/18/2023
Yolo	Sacramento-Yolo MVCD	West Sacramento	95605	Mourning Dove	9/12/2023
Yolo	Sacramento-Yolo MVCD	West Sacramento	95691	American Crow	9/12/2023
Yolo	Sacramento-Yolo MVCD	West Sacramento	95691	Mourning Dove	9/13/2023

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus
Alameda	ALCO 219233	30654	Cx pipiens	Livermore	19	CO2	9/13/2023	WNV
Alameda	ALCO 219233	30655	Cx tarsalis	Livermore	9	CO2	9/13/2023	WNV
Alameda	ALCO 42	30646	Cx tarsalis	Fremont	7	CO2	9/14/2023	WNV
Alameda	ALCO 738793	30664	Cx tarsalis	Livermore	8	CO2	9/13/2023	WNV
Butte	BUCO 141	460	Cx tarsalis	Oroville	30	CO2	9/13/2023	WNV
Contra Costa	CNTR 4013	1329	Cx tarsalis	Concord	22	CO2	9/14/2023	WNV
Contra Costa	CNTR 8202	1306	Cx tarsalis	Discovery Bay	50	CO2	9/14/2023	WNV
Fresno	CNSL 1065	287	Cx quinquefasciatus	Fresno	50	GRVD	9/13/2023	SLEV
Fresno	CNSL 1102	290	Cx quinquefasciatus	Fresno	50	GRVD	9/14/2023	WNV
Fresno	CNSL 1102	290	Cx quinquefasciatus	Fresno	50	GRVD	9/14/2023	SLEV
Fresno	CNSL 1137	768	Cx quinquefasciatus	Fresno	18	GRVD	9/13/2023	SLEV
Fresno	CNSL 1212	288	Cx quinquefasciatus	Fresno	50	GRVD	9/14/2023	WNV
Fresno	CNSL 1212	288	Cx quinquefasciatus	Fresno	50	GRVD	9/14/2023	SLEV
Fresno	CNSL 1595	277	Cx quinquefasciatus	Fresno	50	GRVD	9/12/2023	SLEV
Fresno	CNSL 1686	767	Cx quinquefasciatus	Clovis	50	GRVD	9/13/2023	SLEV
Fresno	CNSL 1773	284	Cx quinquefasciatus	Clovis	50	GRVD	9/12/2023	SLEV
Fresno	CNSL 1806	279	Cx quinquefasciatus	Clovis	50	GRVD	9/12/2023	SLEV
Fresno	CNSL 1879	282	Cx quinquefasciatus	Clovis	23	GRVD	9/12/2023	WNV
Fresno	CNSL 1879	282	Cx quinquefasciatus	Clovis	23	GRVD	9/12/2023	SLEV
Fresno	CNSL 3206	766	Cx quinquefasciatus	Reedley	29	GRVD	9/13/2023	WNV
Fresno	CNSL 3206	766	Cx quinquefasciatus	Reedley	29	GRVD	9/13/2023	SLEV
Fresno	CNSL 5174	274	Cx quinquefasciatus	Laton	40	GRVD	9/12/2023	SLEV
Fresno	CNSL 8070	281	Cx quinquefasciatus	Fresno	34	GRVD	9/12/2023	SLEV
Fresno	CNSL 8104	280	Cx quinquefasciatus	Fresno	33	GRVD	9/12/2023	WNV
Fresno	CNSL 8226	291	Cx quinquefasciatus	Fresno	44	GRVD	9/14/2023	SLEV
Fresno	CNSL 9021	295	Cx quinquefasciatus	Clovis	44	GRVD	9/15/2023	WNV
Fresno	CNSL 9176	763	Cx quinquefasciatus	Fresno	50	GRVD	9/12/2023	SLEV
Fresno	CNSL 9218	294	Cx quinquefasciatus	Clovis	50	GRVD	9/15/2023	WNV
Fresno	FRNO 19	882	Cx quinquefasciatus	Fresno	12	BGSENT	9/13/2023	WNV
Fresno	FRNO 38	883	Cx quinquefasciatus	Fresno	17	BGSENT	9/13/2023	WNV
Fresno	FRWS 200003	424	Cx tarsalis	Dos Palos	50	CO2	9/19/2023	WNV
Fresno	FRWS 4120	412	Cx tarsalis	Firebaugh	50	BGSENT	9/13/2023	SLEV
Fresno	FRWS 4301	413	Cx tarsalis	Cantua Creek	38	BGSENT	9/14/2023	WNV
Fresno	FRWS 4301	413	Cx tarsalis	Cantua Creek	38	BGSENT	9/14/2023	SLEV
Fresno	FRWS 4301	414	Cx quinquefasciatus	Cantua Creek	35	BGSENT	9/14/2023	WNV
Fresno	FRWS 4301	414	Cx quinquefasciatus	Cantua Creek	35	BGSENT	9/14/2023	SLEV
Fresno	FRWS 5101	430	Cx tarsalis	Mendota	50	CO2	9/19/2023	SLEV
Kern	DLNO 129	334	Cx quinquefasciatus	Delano	21	GRVD	9/19/2023	WNV
Kern	DLNO 132	326	Cx quinquefasciatus	Delano	40	BGSENT	9/13/2023	WNV
Kern	DLNO 139	336	Cx quinquefasciatus	Mcfarland	29	GRVD	9/19/2023	SLEV

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Kern	DLNO 150	341	Cx quinquefasciatus	Delano	44	BGSENT	9/20/2023	WNV
Kern	DLNO 150	341	Cx quinquefasciatus	Delano	44	BGSENT	9/20/2023	SLEV
Kern	DLNO 2	329	Cx quinquefasciatus	Delano	13	CO2	9/15/2023	SLEV
Kern	DLNO 78	333	Cx quinquefasciatus	Delano	23	GRVD	9/19/2023	SLEV
Kern	DLNO 89	335	Cx quinquefasciatus	Delano	50	GRVD	9/19/2023	SLEV
Kern	KERN 1138	1210	Cx quinquefasciatus	Bakersfield	50	GRVD	9/15/2023	WNV
Kern	KERN 141	1211	Cx tarsalis	Bakersfield	26	CO2	9/15/2023	WNV
Kern	KERN 2005	1212	Cx quinquefasciatus	Bakersfield	50	GRVD	9/15/2023	SLEV
Kern	KERN 2030	1206	Cx quinquefasciatus	Bakersfield	50	GRVD	9/14/2023	WNV
Kern	KERN 2030	1206	Cx quinquefasciatus	Bakersfield	50	GRVD	9/14/2023	SLEV
Kern	KERN 2043	1207	Cx quinquefasciatus	Bakersfield	50	GRVD	9/14/2023	SLEV
Kern	KERN 3040	1209	Cx quinquefasciatus	Bakersfield	36	CO2	9/14/2023	SLEV
Kern	KERN 40	1200	Aedes melanimon	Lost Hills	50	CO2	9/12/2023	SLEV
Kern	WEST 6286	62	Cx tarsalis	Bakersfield	25	CO2	9/20/2023	WNV
Kings	KNGS 3030	408	Cx tarsalis	Lemoore	50	CO2	9/12/2023	WNV
Kings	KNGS 3030	409	Cx tarsalis	Lemoore	50	CO2	9/12/2023	WNV
Kings	KNGS 3030	409	Cx tarsalis	Lemoore	50	CO2	9/12/2023	SLEV
Kings	KNGS 3030	412	Cx tarsalis	Lemoore	50	CO2	9/12/2023	WNV
Kings	KNGS 3108	404	Cx tarsalis	Island	50	CO2	9/12/2023	WNV
Kings	KNGS 3130	430	Cx tarsalis	Hardwick	50	CO2	9/14/2023	WNV
Kings	KNGS 3130	432	Cx pipiens	Hardwick	15	CO2	9/14/2023	SLEV
Kings	KNGS 3135	423	Cx tarsalis	Hanford	50	CO2	9/13/2023	SLEV
Kings	KNGS 3137	440	Cx tarsalis	Stratford	50	CO2	9/15/2023	SLEV
Kings	KNGS 3137	442	Cx tarsalis	Stratford	50	CO2	9/15/2023	SLEV
Kings	KNGS 3137	443	Cx pipiens	Stratford	50	CO2	9/15/2023	WNV
Kings	KNGS 3137	443	Cx pipiens	Stratford	50	CO2	9/15/2023	SLEV
Kings	KNGS 5519	402	Cx pipiens	Hanford	50	CO2	9/11/2023	WNV
Kings	KNGS 5519	402	Cx pipiens	Hanford	50	CO2	9/11/2023	SLEV
Kings	KNGS 5700	433	Cx tarsalis	Home Garden	50	CO2	9/15/2023	SLEV
Kings	KNGS 5700	436	Cx pipiens	Home Garden	50	CO2	9/15/2023	SLEV
Kings	KNGS 8008	413	Cx tarsalis	Hanford	50	CO2	9/13/2023	SLEV
Kings	KNGS 8008	415	Cx tarsalis	Hanford	50	CO2	9/13/2023	WNV
Kings	KNGS 8008	415	Cx tarsalis	Hanford	50	CO2	9/13/2023	SLEV
Kings	KNGS 8008	417	Cx pipiens	Hanford	50	CO2	9/13/2023	WNV
Los Angeles	GRLA 2007	5742	Cx quinquefasciatus	Toluca Lake	50	GRVD	9/12/2023	WNV
Los Angeles	GRLA 2017	5745	Cx quinquefasciatus	Studio City	50	GRVD	9/12/2023	WNV
Los Angeles	GRLA 2031	5758	Cx quinquefasciatus	Northridge	50	GRVD	9/13/2023	WNV
Los Angeles	GRLA 2166	730	Cx quinquefasciatus	Montebello	50	GRVD	9/14/2023	WNV
Los Angeles	GRLA 2194	706	Cx quinquefasciatus	South El Monte	50	GRVD	9/14/2023	WNV
Los Angeles	GRLA 2221	715	Cx quinquefasciatus	Rowland Heights	50	GRVD	9/14/2023	WNV
Los Angeles	GRLA 2228	711	Cx quinquefasciatus	Diamond Bar	50	GRVD	9/14/2023	WNV
Los Angeles	GRLA 2228	712	Cx stigmatosoma	Diamond Bar	50	GRVD	9/14/2023	WNV
Los Angeles	GRLA 2268	727	Cx quinquefasciatus	Cerritos	50	GRVD	9/14/2023	WNV
Los Angeles	GRLA 2300	733	Cx quinquefasciatus	Los Angeles-South Central	50	GRVD	9/15/2023	WNV
Los Angeles	GRLA 2434	5772	Cx quinquefasciatus	Chatsworth	49	GRVD	9/14/2023	WNV
Los Angeles	GRLA 2438	5773	Cx quinquefasciatus	Chatsworth	50	GRVD	9/14/2023	WNV
Los Angeles	GRLA 2539	5759	Cx quinquefasciatus	Porter Ranch	50	GRVD	9/13/2023	WNV
Los Angeles	GRLA 2555	5754	Cx quinquefasciatus	Encino	50	GRVD	9/13/2023	WNV
Los Angeles	GRLA 2567	5763	Cx quinquefasciatus	Woodland Hills	50	GRVD	9/14/2023	WNV
Los Angeles	GRLA 2614	5776	Cx quinquefasciatus	Santa Clarita	50	GRVD	9/15/2023	WNV
Los Angeles	GRLA 2635	5753	Cx quinquefasciatus	Lake Balboa	50	GRVD	9/13/2023	WNV
Los Angeles	GRLA 2675	5781	Cx quinquefasciatus	Granada Hills	50	GRVD	9/15/2023	WNV
Los Angeles	GRLA 2675	5783	Cx stigmatosoma	Granada Hills	35	GRVD	9/15/2023	WNV
Los Angeles	GRLA 2724	5766	Cx quinquefasciatus	Winnetka	50	GRVD	9/14/2023	WNV
Los Angeles	GRLA 2955	725	Cx quinquefasciatus	Cerritos	50	GRVD	9/14/2023	WNV
Los Angeles	GRLA 2995	5764	Cx quinquefasciatus	Woodland Hills	50	GRVD	9/14/2023	WNV
Los Angeles	GRLA 3027	5741	Cx quinquefasciatus	Studio City	50	GRVD	9/12/2023	WNV
Los Angeles	GRLA 3038	5746	Cx quinquefasciatus	Valley Village	50	GRVD	9/12/2023	WNV
Los Angeles	GRLA 3039	5743	Cx quinquefasciatus	Hollywood Hills	50	GRVD	9/12/2023	WNV
Los Angeles	GRLA 3045	718	Cx quinquefasciatus	Whittier	50	GRVD	9/14/2023	WNV
Los Angeles	GRLA 3048	729	Cx quinquefasciatus	Pico Rivera	50	GRVD	9/14/2023	WNV
Los Angeles	GRLA 3064	739	Cx quinquefasciatus	West Athens Village	50	GRVD	9/15/2023	WNV
Los Angeles	GRLA 3065	740	Cx quinquefasciatus	Willowbrook	50	GRVD	9/15/2023	WNV
Los Angeles	GRLA 3069	5747	Cx quinquefasciatus	Valley Village	50	GRVD	9/12/2023	WNV
Los Angeles	GRLA 3079	5751	Cx quinquefasciatus	Sun Valley	50	GRVD	9/12/2023	WNV
Los Angeles	GRLA 3080	5749	Cx quinquefasciatus	North Hollywood	50	GRVD	9/12/2023	WNV
Los Angeles	SGVA 1006	754	Cx quinquefasciatus	Walnut	50	GRVD	9/19/2023	WNV
Los Angeles	SGVA 1006	758	Cx quinquefasciatus	Walnut	50	GRVD	9/19/2023	WNV
Los Angeles	SGVA 1331	798	Cx quinquefasciatus	San Gabriel	50	GRVD	9/21/2023	WNV

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Los Angeles	SGVA 1332	804	Cx quinquefasciatus	San Gabriel	35	GRVD	9/21/2023	WNV
Los Angeles	SGVA 1334	799	Cx quinquefasciatus	San Gabriel	50	GRVD	9/21/2023	WNV
Los Angeles	SGVA 445	772	Cx quinquefasciatus	Rosemead	50	GRVD	9/19/2023	WNV
Los Angeles	SGVA 450	766	Cx quinquefasciatus	La Puente	50	GRVD	9/19/2023	WNV
Los Angeles	SGVA 466	792	Cx quinquefasciatus	Pasadena	50	GRVD	9/20/2023	WNV
Los Angeles	SGVA 473	810	Cx quinquefasciatus	San Gabriel	50	GRVD	9/21/2023	WNV
Los Angeles	SGVA 509	767	Cx quinquefasciatus	Glendora	50	GRVD	9/19/2023	WNV
Los Angeles	SGVA 64	756	Cx quinquefasciatus	West Covina	50	GRVD	9/19/2023	WNV
Los Angeles	SGVA 875	760	Cx quinquefasciatus	Walnut	50	GRVD	9/19/2023	WNV
Los Angeles	SGVA 887	774	Cx quinquefasciatus	Alhambra	50	GRVD	9/19/2023	WNV
Los Angeles	SGVA 956	757	Cx quinquefasciatus	Walnut	50	GRVD	9/19/2023	WNV
Madera	MADR 1057	573	Cx tarsalis	Chowchilla	50	CO2	9/12/2023	WNV
Madera	MADR 227	586	Cx quinquefasciatus	Madera	37	CO2	9/15/2023	SLEV
Madera	MADR 298	548	Cx tarsalis	Chowchilla	50	CO2	9/12/2023	SLEV
Madera	MADR 299	545	Cx quinquefasciatus	Chowchilla	50	CO2	9/12/2023	WNV
Madera	MADR 300	574	Cx quinquefasciatus	Chowchilla	50	CO2	9/12/2023	WNV
Madera	MADR 3334	589	Cx tarsalis	Madera	50	CO2	9/15/2023	WNV
Madera	MADR 3334	589	Cx tarsalis	Madera	50	CO2	9/15/2023	SLEV
Madera	MADR 581	582	Cx tarsalis	Madera	50	CO2	9/14/2023	WNV
Madera	MADR 697	560	Cx tarsalis	Firebaugh	50	CO2	9/12/2023	WNV
Madera	MADR 714	542	Cx quinquefasciatus	Madera	21	BGSENT	9/11/2023	WNV
Madera	MADR 733	555	Cx quinquefasciatus	Chowchilla	17	CO2	9/13/2023	SLEV
Madera	MADR 733	556	Cx tarsalis	Chowchilla	21	CO2	9/13/2023	WNV
Madera	MADR 735	564	Cx tarsalis	Madera	31	CO2	9/13/2023	WNV
Madera	MADR 735	564	Cx tarsalis	Madera	31	CO2	9/13/2023	SLEV
Madera	MADR 737	583	Cx tarsalis	Madera	21	CO2	9/14/2023	SLEV
Madera	MADR 738	592	Cx tarsalis	Madera	27	CO2	9/15/2023	WNV
Madera	MADR 738	594	Cx tarsalis	Madera	22	CO2	9/15/2023	WNV
Madera	MADR 738	594	Cx tarsalis	Madera	22	CO2	9/15/2023	SLEV
Madera	MADR 85	577	Cx tarsalis	Madera	7	CO2	9/14/2023	WNV
Merced	MERC 1218	765	Cx tarsalis	Merced	10	CO2	9/20/2023	WNV
Merced	MERC 1218	766	Cx pipiens	Merced	46	CO2	9/20/2023	WNV
Merced	MERC 441914	743	Cx pipiens	Merced	32	CO2	9/14/2023	WNV
Merced	MERC 518624	752	Cx pipiens	Merced	21	CO2	9/15/2023	SLEV
Merced	MERC 594663	735	Cx pipiens	Merced	14	CO2	9/14/2023	SLEV
Merced	MERC 594663	736	Cx tarsalis	Merced	11	CO2	9/14/2023	WNV
Merced	MERC 818438	738	Cx pipiens	Merced	50	CO2	9/14/2023	SLEV
Merced	MERC 818438	739	Cx tarsalis	Merced	50	CO2	9/14/2023	SLEV
Napa	NAPA 12	272	Cx tarsalis	Napa	9	CO2	9/21/2023	WNV
Orange	ORCO 1008	3847	Cx quinquefasciatus	Fullerton	50	GRVD	9/19/2023	WNV
Orange	ORCO 1008	3873	Cx quinquefasciatus	Fullerton	50	GRVD	9/19/2023	WNV
Orange	ORCO 1008	3880	Cx quinquefasciatus	Fullerton	50	GRVD	9/19/2023	WNV
Orange	ORCO 1009	3910	Cx quinquefasciatus	Garden Grove	50	GRVD	9/19/2023	WNV
Orange	ORCO 1009	3988	Cx quinquefasciatus	Garden Grove	43	GRVD	9/20/2023	WNV
Orange	ORCO 1024	4031	Cx quinquefasciatus	Yorba Linda	50	GRVD	9/21/2023	WNV
Orange	ORCO 170	4004	Cx quinquefasciatus	Anaheim	30	GRVD	9/20/2023	WNV
Orange	ORCO 218	3852	Cx quinquefasciatus	Anaheim	50	GRVD	9/19/2023	WNV
Orange	ORCO 218	3857	Cx quinquefasciatus	Anaheim	35	GRVD	9/19/2023	WNV
Orange	ORCO 218	3858	Cx quinquefasciatus	Anaheim	35	GRVD	9/19/2023	WNV
Orange	ORCO 218	3887	Cx quinquefasciatus	Anaheim	16	GRVD	9/19/2023	WNV
Orange	ORCO 235	3876	Cx quinquefasciatus	Stanton	50	GRVD	9/19/2023	WNV
Orange	ORCO 29	3993	Cx quinquefasciatus	Santa Ana	50	CO2	9/20/2023	WNV
Orange	ORCO 29	3998	Cx quinquefasciatus	Santa Ana	50	CO2	9/20/2023	WNV
Orange	ORCO 302	4001	Cx quinquefasciatus	Anaheim	39	GRVD	9/20/2023	WNV
Orange	ORCO 317	3907	Cx quinquefasciatus	Fullerton	51	BGSENT	9/19/2023	WNV
Orange	ORCO 328	3903	Cx quinquefasciatus	Fullerton	33	GRVD	9/19/2023	WNV
Orange	ORCO 334	4028	Cx quinquefasciatus	Cypress	36	GRVD	9/20/2023	WNV
Orange	ORCO 338	3975	Cx quinquefasciatus	Anaheim	45	GRVD	9/20/2023	WNV
Orange	ORCO 343	3935	Cx quinquefasciatus	Orange	49	GRVD	9/19/2023	WNV
Orange	ORCO 367	4041	Cx tarsalis	Orange	36	CO2	9/21/2023	WNV
Placer	PLCR 1113	1587	Cx tarsalis	Pleasant Grove	50	CO2	9/19/2023	WNV
Placer	PLCR 191373	1591	Cx erythrothorax	Unknown	1	CO2	9/19/2023	WNV
Placer	PLCR 191373	1592	Cx tarsalis	Unknown	32	CO2	9/19/2023	WNV
Placer	PLCR 30	1569	Cx pipiens	Lincoln	50	CO2	9/19/2023	WNV
Placer	PLCR 79	1559	Cx tarsalis	Roseville	50	CO2	9/19/2023	WNV
Riverside	COAV 0	5125	Cx quinquefasciatus	Indio	50	CO2	9/15/2023	WNV
Riverside	COAV 115	5315	Cx tarsalis	North Shore	50	CO2	9/19/2023	WNV
Riverside	COAV 121	5216	Cx tarsalis	Mecca	50	CO2	9/19/2023	WNV
Riverside	COAV 200	4886	Cx tarsalis	Mecca	50	CO2	9/15/2023	WNV

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Riverside	COAV 230005	5517	Cx quinquefasciatus	Palm Springs	7	BGSENT	9/22/2023	WNV
Riverside	COAV 230008	5516	Cx quinquefasciatus	Palm Springs	24	BGSENT	9/22/2023	WNV
Riverside	COAV 27	3939	Cx tarsalis	Thermal	46	CO2	8/2/2023	SLEV
Riverside	COAV 415	5447	Cx quinquefasciatus	Indian Wells	50	BGSENT	9/21/2023	WNV
Riverside	COAV 417	5455	Cx quinquefasciatus	Palm Desert	14	GRVD	9/21/2023	WNV
Riverside	COAV 48	5071	Cx tarsalis	Mecca	50	CO2	9/19/2023	SLEV
Riverside	COAV 540	5099	Cx tarsalis	Mecca	50	CO2	9/15/2023	WNV
Riverside	COAV 540	5102	Cx tarsalis	Mecca	50	CO2	9/15/2023	WNV
Riverside	COAV 56	5401	Cx tarsalis	North Shore	50	CO2	9/19/2023	WNV
Riverside	COAV 56	5403	Cx tarsalis	North Shore	50	CO2	9/19/2023	WNV
Riverside	COAV 57	5407	Cx tarsalis	North Shore	50	CO2	9/19/2023	WNV
Riverside	COAV 57	5409	Cx tarsalis	North Shore	50	CO2	9/19/2023	WNV
Riverside	COAV 58	5306	Cx tarsalis	North Shore	50	CO2	9/19/2023	WNV
Riverside	COAV 58	5309	Cx tarsalis	North Shore	50	CO2	9/19/2023	WNV
Riverside	COAV 753	5550	Cx tarsalis	Mecca	13	BGSENT	9/22/2023	SLEV
Riverside	COAV 756	4884	Cx tarsalis	Mecca	50	BGSENT	9/15/2023	SLEV
Riverside	COAV 789	5423	Cx quinquefasciatus	Cathedral City	26	BGSENT	9/21/2023	WNV
Riverside	COAV 791	5324	Cx quinquefasciatus	Palm Springs	52	BGSENT	9/20/2023	WNV
Riverside	COAV 791	5584	Cx quinquefasciatus	Palm Springs	36	BGSENT	9/22/2023	WNV
Riverside	COAV 832	5360	Cx quinquefasciatus	Rancho Mirage	50	BGSENT	9/21/2023	WNV
Riverside	COAV 832	5361	Cx quinquefasciatus	Rancho Mirage	50	BGSENT	9/21/2023	WNV
Riverside	COAV 834	5427	Cx quinquefasciatus	Rancho Mirage	50	BGSENT	9/21/2023	WNV
Riverside	COAV 834	5429	Cx quinquefasciatus	Rancho Mirage	50	BGSENT	9/21/2023	WNV
Riverside	COAV 844	5030	Cx tarsalis	Mecca	11	BGSENT	9/15/2023	WNV
Riverside	COAV 844	5592	Cx tarsalis	Mecca	29	BGSENT	9/22/2023	SLEV
Riverside	NWST 122	266	Cx quinquefasciatus	Corona	25	GRVD	9/19/2023	WNV
Riverside	NWST 229	265	Cx quinquefasciatus	Riverside	50	GRVD	9/19/2023	WNV
Riverside	NWST 359	242	Cx quinquefasciatus	Corona	25	GRVD	9/13/2023	WNV
Riverside	NWST 359	262	Cx quinquefasciatus	Corona	50	BGSENT	9/15/2023	WNV
Riverside	NWST 361	248	Cx quinquefasciatus	Corona	31	GRVD	9/13/2023	WNV
Riverside	NWST 362	253	Cx tarsalis	Corona	30	BGSENT	9/13/2023	WNV
Riverside	NWST 362	256	Cx quinquefasciatus	Corona	50	BGSENT	9/15/2023	WNV
Riverside	NWST 39	234	Cx quinquefasciatus	Riverside	50	BGSENT	9/12/2023	WNV
Riverside	NWST 90	267	Cx quinquefasciatus	Riverside	50	GRVD	9/19/2023	WNV
Riverside	RIVR 0	315	Cx tarsalis	Riverside	2	CO2	9/13/2023	WNV
Riverside	RIVR 51	310	Cx tarsalis	Moreno Valley	50	CO2	9/13/2023	WNV
Riverside	RIVR 51	313	Cx tarsalis	Moreno Valley	50	CO2	9/13/2023	WNV
Riverside	RIVR 52	307	Cx tarsalis	Moreno Valley	6	CO2	9/13/2023	WNV
Sacramento	SAYO 212021	7014	Cx pipiens	Sacramento	6	GRVD	9/18/2023	WNV
Sacramento	SAYO 214013	6853	Cx pipiens	Carmichael	20	GRVD	9/15/2023	WNV
Sacramento	SAYO 242004	6860	Cx tarsalis	Elk Grove	50	CO2	9/15/2023	WNV
Sacramento	SAYO 255007	6816	Cx pipiens	Herald	50	CO2	9/15/2023	WNV
Sacramento	SAYO 261003	6771	Cx tarsalis	Isleton	40	CO2	9/15/2023	WNV
Sacramento	SAYO 414756	6835	Cx pipiens	Galt	3	GRVD	9/15/2023	WNV
San Bernardino	SANB 37	339	Cx tarsalis	San Bernardino	50	CO2	9/9/2023	WNV
San Bernardino	SANB 37	340	Cx tarsalis	San Bernardino	50	CO2	9/9/2023	WNV
San Bernardino	SANB 37	341	Cx tarsalis	San Bernardino	50	CO2	9/9/2023	WNV
San Bernardino	SANB 37	342	Cx tarsalis	San Bernardino	50	CO2	9/9/2023	WNV
San Bernardino	SANB 37	343	Cx tarsalis	San Bernardino	50	CO2	9/9/2023	WNV
San Bernardino	SANB 37	344	Cx tarsalis	San Bernardino	50	CO2	9/9/2023	WNV
San Bernardino	SANB 37	345	Cx tarsalis	San Bernardino	50	CO2	9/9/2023	WNV
San Bernardino	SANB 37	349	Cx quinquefasciatus	San Bernardino	50	CO2	9/9/2023	WNV
San Bernardino	SANB 37	350	Cx quinquefasciatus	San Bernardino	50	CO2	9/9/2023	WNV
San Bernardino	SANB 37	351	Cx quinquefasciatus	San Bernardino	42	CO2	9/9/2023	WNV
San Bernardino	SANB 37	352	Cx tarsalis	San Bernardino	50	CO2	9/9/2023	WNV
San Bernardino	SANB 37	353	Cx tarsalis	San Bernardino	50	CO2	9/9/2023	WNV
San Bernardino	SANB 37	354	Cx tarsalis	San Bernardino	29	CO2	9/9/2023	WNV
San Bernardino	WVAL 4721	2310	Cx quinquefasciatus	Chino	41	BGSENT	9/19/2023	WNV
San Bernardino	WVAL 6013	2390	Cx tarsalis	Ontario	10	CO2	9/21/2023	WNV
San Joaquin	SJCM 8045	2817	Cx pipiens	Thornton	29	CO2	9/19/2023	WNV
San Joaquin	SJCM 8056	2811	Cx tarsalis	Manteca	51	CO2	9/19/2023	WNV
San Joaquin	SJCM 8083	2803	Cx pipiens	Escalon	50	CO2	9/19/2023	WNV
San Joaquin	SJCM 8094	2781	Cx tarsalis	Manteca	46	CO2	9/19/2023	WNV
San Joaquin	SJCM 8143	2828	Cx tarsalis	Stockton	50	CO2	9/19/2023	WNV
San Joaquin	SJCM 8160	2814	Cx tarsalis	Lodi	42	CO2	9/19/2023	WNV
San Joaquin	SJCM 8200	2851	Cx tarsalis	Lodi	20	CO2	9/21/2023	WNV
San Joaquin	SJCM 8206	2823	Cx tarsalis	Lodi	100	CO2	9/19/2023	WNV
San Joaquin	SJCM 8206	2826	Cx tarsalis	Lodi	100	CO2	9/19/2023	WNV
San Joaquin	SJCM 8206	2832	Cx pipiens	Lodi	12	CO2	9/19/2023	WNV

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San Joaquin	SJCM 8209	2862	Cx tarsalis	Lodi	24	CO2	9/21/2023	WNV
San Joaquin	SJCM 8210	2766	Cx pipiens	Escalon	50	CO2	9/19/2023	WNV
San Joaquin	SJCM 8217	2818	Cx tarsalis	Mountain House	9	CO2	9/19/2023	WNV
San Joaquin	SJCM 8219	2776	Cx tarsalis	Stockton	37	CO2	9/19/2023	WNV
San Joaquin	SJCM 8233	2780	Cx pipiens	Stockton	16	CO2	9/19/2023	WNV
Shasta	SHAS 116	2020	Cx pipiens	Anderson	50	CO2	9/19/2023	WNV
Shasta	SHAS 148	1983	Cx tarsalis	Cottonwood	23	CO2	9/15/2023	SLEV
Shasta	SHAS 331	2058	Cx tarsalis	Millville	26	CO2	9/20/2023	WNV
Shasta	SHAS 459	2060	Cx pipiens	Redding	50	CO2	9/20/2023	WNV
Shasta	SHAS 459	2060	Cx pipiens	Redding	50	CO2	9/20/2023	SLEV
Shasta	SHAS 625	2038	Cx tarsalis	Redding	30	CO2	9/20/2023	WNV
Shasta	SHAS 689	2040	Cx pipiens	Anderson	20	CO2	9/20/2023	WNV
Shasta	SHAS 698	2072	Cx	Palo Cedro	29	CO2	9/20/2023	WNV
Shasta	SHAS 917	2024	Cx tarsalis	Redding	50	CO2	9/19/2023	WNV
Stanislaus	EAST 2045	23247	Cx pipiens	Riverbank	22	GRVD	9/13/2023	WNV
Stanislaus	EAST 2051	23243	Cx pipiens	Modesto	28	CO2	9/13/2023	WNV
Stanislaus	EAST 2055	23250	Cx pipiens	Modesto	50	CO2	9/14/2023	WNV
Stanislaus	TRLK 1616	1689	Cx tarsalis	Modesto	34	CO2	9/19/2023	SLEV
Stanislaus	TRLK 1673	1695	Cx tarsalis	Patterson	40	CO2	9/19/2023	WNV
Stanislaus	TRLK 1821	1744	Cx pipiens	Patterson	5	CO2	9/19/2023	SLEV
Stanislaus	TRLK 18277	1652	Cx pipiens	Turlock	50	CO2	9/14/2023	WNV
Stanislaus	TRLK 18277	1652	Cx pipiens	Turlock	50	CO2	9/14/2023	SLEV
Stanislaus	TRLK 18277	1653	Cx pipiens	Turlock	50	CO2	9/14/2023	WNV
Stanislaus	TRLK 18277	1654	Cx pipiens	Turlock	50	CO2	9/14/2023	WNV
Stanislaus	TRLK 18277	1656	Cx tarsalis	Turlock	50	CO2	9/14/2023	WNV
Stanislaus	TRLK 19383	1686	Cx tarsalis	Patterson	11	CO2	9/19/2023	WNV
Stanislaus	TRLK 2	1736	Cx pipiens	Vernalis	50	CO2	9/19/2023	SLEV
Stanislaus	TRLK 2	1737	Cx pipiens	Vernalis	50	CO2	9/19/2023	WNV
Stanislaus	TRLK 2315	1747	Cx tarsalis	Grayson	50	CO2	9/19/2023	SLEV
Stanislaus	TRLK 23238	1648	Cx pipiens	Turlock	50	CO2	9/14/2023	WNV
Stanislaus	TRLK 23282	1632	Cx pipiens	Turlock	50	CO2	9/14/2023	SLEV
Stanislaus	TRLK 23298	1627	Cx pipiens	Denair	50	BGSENT	9/13/2023	WNV
Stanislaus	TRLK 312	1710	Cx tarsalis	Newman	50	CO2	9/19/2023	SLEV
Stanislaus	TRLK 312	1716	Cx tarsalis	Newman	50	CO2	9/19/2023	WNV
Stanislaus	TRLK 424	1693	Cx pipiens	Patterson	42	CO2	9/19/2023	SLEV
Stanislaus	TRLK 424	1694	Cx tarsalis	Patterson	50	CO2	9/19/2023	WNV
Stanislaus	TRLK 548	1675	Cx tarsalis	Newman	50	CO2	9/19/2023	WNV
Stanislaus	TRLK 806	1677	Cx pipiens	Grayson	50	CO2	9/19/2023	SLEV
Stanislaus	TRLK 806	1678	Cx pipiens	Grayson	50	CO2	9/19/2023	SLEV
Stanislaus	TRLK 806	1679	Cx pipiens	Grayson	50	CO2	9/19/2023	WNV
Stanislaus	TRLK 9732	1705	Cx tarsalis	Newman	50	CO2	9/19/2023	WNV
Stanislaus	TRLK 9732	1705	Cx tarsalis	Newman	50	CO2	9/19/2023	SLEV
Stanislaus	TRLK 9768	1724	Cx tarsalis	Modesto	50	CO2	9/19/2023	SLEV
Tulare	DLTA 6408	6066	Cx quinquefasciatus	Dinuba	29	BGSENT	9/14/2023	SLEV
Tulare	DLTA 6408	6188	Cx quinquefasciatus	Dinuba	36	BGSENT	9/19/2023	WNV
Tulare	DLTA 6416	6196	Cx quinquefasciatus	Dinuba	50	BGSENT	9/19/2023	SLEV
Tulare	DLTA 6417	5868	Cx quinquefasciatus	Dinuba	15	BGSENT	9/8/2023	SLEV
Tulare	DLTA 6417	6050	Cx stigmatosoma	Dinuba	11	BGSENT	9/14/2023	WNV
Tulare	DLTA 6417	6050	Cx stigmatosoma	Dinuba	11	BGSENT	9/14/2023	SLEV
Tulare	DLTA 6420	6135	Cx quinquefasciatus	Dinuba	20	BGSENT	9/15/2023	SLEV
Tulare	DLTA 6518	6029	Cx quinquefasciatus	Cutler	24	GRVD	9/14/2023	SLEV
Tulare	DLTA 653232	6063	Cx quinquefasciatus	Yetterm	31	CO2	9/14/2023	WNV
Tulare	DLTA 653232	6063	Cx quinquefasciatus	Yetterm	31	CO2	9/14/2023	SLEV
Tulare	DLTA 741443	6038	Cx tarsalis	Monson	29	CO2	9/14/2023	SLEV
Tulare	DLTA 751732	6064	Cx quinquefasciatus	Yetterm	18	CO2	9/14/2023	WNV
Tulare	DLTA 752032	6272	Cx quinquefasciatus	Patterson Tract	47	CO2	9/20/2023	WNV
Tulare	DLTA 753122	6231	Cx tarsalis	Patterson Tract	27	CO2	9/20/2023	WNV
Tulare	DLTA 8324	6103	Cx quinquefasciatus	Goshen	50	BGSENT	9/15/2023	SLEV
Tulare	DLTA 8324	6106	Cx quinquefasciatus	Goshen	50	BGSENT	9/15/2023	SLEV
Tulare	DLTA 8324	6107	Cx quinquefasciatus	Goshen	50	BGSENT	9/15/2023	SLEV
Tulare	DLTA 8324	6108	Cx quinquefasciatus	Goshen	50	BGSENT	9/15/2023	WNV
Tulare	DLTA 8324	6108	Cx quinquefasciatus	Goshen	50	BGSENT	9/15/2023	SLEV
Tulare	DLTA 8324	6110	Cx quinquefasciatus	Goshen	47	BGSENT	9/15/2023	SLEV
Tulare	DLTA 8324	6115	Cx quinquefasciatus	Goshen	50	BGSENT	9/15/2023	SLEV
Tulare	DLTA 8413	6200	Cx quinquefasciatus	Visalia	50	BGSENT	9/20/2023	WNV
Tulare	DLTA 8413	6200	Cx quinquefasciatus	Visalia	50	BGSENT	9/20/2023	SLEV
Tulare	DLTA 84131	6246	Cx quinquefasciatus	Visalia	43	CO2	9/20/2023	WNV
Tulare	DLTA 84131	6246	Cx quinquefasciatus	Visalia	43	CO2	9/20/2023	SLEV
Tulare	DLTA 8414	6123	Cx quinquefasciatus	Visalia	50	BGSENT	9/15/2023	WNV

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Tulare	DLTA 841631	5991	Cx quinquefasciatus	Visalia	50	CO2	9/13/2023	SLEV
Tulare	DLTA 841631	5992	Cx quinquefasciatus	Visalia	50	CO2	9/13/2023	SLEV
Tulare	DLTA 8419	5986	Cx quinquefasciatus	Goshen	50	BGSENT	9/13/2023	WNV
Tulare	DLTA 8419	5987	Cx quinquefasciatus	Goshen	50	BGSENT	9/13/2023	SLEV
Tulare	DLTA 842132	6002	Cx quinquefasciatus	Visalia	50	CO2	9/13/2023	SLEV
Tulare	DLTA 842132	6004	Cx quinquefasciatus	Visalia	50	CO2	9/13/2023	SLEV
Tulare	DLTA 842132	6010	Cx quinquefasciatus	Visalia	50	CO2	9/13/2023	SLEV
Tulare	DLTA 842132	6011	Cx quinquefasciatus	Visalia	50	CO2	9/13/2023	WNV
Tulare	DLTA 842132	6013	Cx tarsalis	Visalia	50	CO2	9/13/2023	SLEV
Tulare	DLTA 8422	5967	Cx quinquefasciatus	Goshen	50	BGSENT	9/13/2023	SLEV
Tulare	DLTA 8422	5968	Cx quinquefasciatus	Goshen	50	BGSENT	9/13/2023	SLEV
Tulare	DLTA 8422	6102	Cx quinquefasciatus	Goshen	12	BGSENT	9/15/2023	SLEV
Tulare	DLTA 84223	6046	Cx quinquefasciatus	Visalia	50	BGSENT	9/14/2023	SLEV
Tulare	DLTA 84223	6048	Cx quinquefasciatus	Visalia	45	BGSENT	9/14/2023	WNV
Tulare	DLTA 8423	6043	Cx quinquefasciatus	Visalia	50	BGSENT	9/14/2023	SLEV
Tulare	DLTA 8423	6098	Cx quinquefasciatus	Visalia	50	BGSENT	9/15/2023	WNV
Tulare	DLTA 8423	6099	Cx quinquefasciatus	Visalia	47	BGSENT	9/15/2023	SLEV
Tulare	DLTA 84233	6041	Cx quinquefasciatus	Visalia	49	BGSENT	9/14/2023	SLEV
Tulare	DLTA 8424	6072	Cx quinquefasciatus	Visalia	37	BGSENT	9/14/2023	WNV
Tulare	DLTA 84271	6160	Cx quinquefasciatus	Visalia	16	GRVD	9/19/2023	SLEV
Tulare	DLTA 84271	6166	Cx quinquefasciatus	Visalia	37	BGSENT	9/19/2023	SLEV
Tulare	DLTA 84274	6084	Cx quinquefasciatus	Visalia	39	BGSENT	9/15/2023	SLEV
Tulare	DLTA 8435	6054	Cx quinquefasciatus	Visalia	23	GRVD	9/14/2023	SLEV
Tulare	DLTA 84352	6235	Cx quinquefasciatus	Visalia	50	BGSENT	9/20/2023	WNV
Tulare	DLTA 85304	6094	Cx quinquefasciatus	Visalia	36	BGSENT	9/15/2023	WNV
Tulare	DLTA 8532	6090	Cx quinquefasciatus	Visalia	26	BGSENT	9/15/2023	SLEV
Tulare	DLTA 8534	6086	Cx quinquefasciatus	Visalia	43	BGSENT	9/15/2023	WNV
Tulare	DLTA 8534	6087	Cx tarsalis	Visalia	14	BGSENT	9/15/2023	WNV
Tulare	DLTA 9401	6147	Cx quinquefasciatus	Visalia	29	GRVD	9/19/2023	SLEV
Tulare	DLTA 9401	6156	Cx quinquefasciatus	Visalia	12	BGSENT	9/19/2023	SLEV
Tulare	DLTA 9401	6157	Cx quinquefasciatus	Visalia	50	BGSENT	9/19/2023	SLEV
Tulare	DLTA 9401	6159	Cx tarsalis	Visalia	11	BGSENT	9/19/2023	SLEV
Tulare	DLTA 94021	6146	Cx quinquefasciatus	Visalia	30	GRVD	9/19/2023	SLEV
Tulare	DLTA 94022	6202	Cx quinquefasciatus	Visalia	50	BGSENT	9/20/2023	SLEV
Tulare	DLTA 94032	5972	Cx quinquefasciatus	Visalia	19	BGSENT	9/13/2023	WNV
Tulare	DLTA 9503	6224	Cx quinquefasciatus	Visalia	33	BGSENT	9/20/2023	WNV
Tulare	DLTA 9504	6053	Cx quinquefasciatus	Visalia	18	BGSENT	9/14/2023	SLEV
Tulare	DLTA 9602	6065	Cx quinquefasciatus	Exeter	15	BGSENT	9/14/2023	SLEV
Tulare	DLTA 9611	5942	Cx stigmatosoma	Exeter	25	BGSENT	9/12/2023	SLEV
Tulare	DLTA 9611	6168	Cx quinquefasciatus	Exeter	25	BGSENT	9/19/2023	WNV
Tulare	DLTA 9611	6168	Cx quinquefasciatus	Exeter	25	BGSENT	9/19/2023	SLEV
Tulare	KNGS 3017	418	Cx tarsalis	Waukena	50	CO2	9/13/2023	WNV
Tulare	KNGS 3017	421	Cx pipiens	Waukena	50	CO2	9/13/2023	WNV
Tulare	KNGS 3017	421	Cx pipiens	Waukena	50	CO2	9/13/2023	SLEV
Tulare	TLRE 515	147	Cx quinquefasciatus	Tulare	50	GRVD	9/14/2023	SLEV
Tulare	TLRE 516	144	Cx quinquefasciatus	Tulare	50	GRVD	9/13/2023	WNV
Yolo	SAYO 125033	6962	Cx tarsalis	Woodland	50	CO2	9/19/2023	WNV
Yolo	SAYO 135020	6946	Cx tarsalis	Woodland	50	CO2	9/19/2023	WNV
Yolo	SAYO 145005	6907	Cx tarsalis	Davis	50	CO2	9/19/2023	WNV
Yolo	SAYO 145005	6909	Cx tarsalis	Davis	50	CO2	9/19/2023	WNV
Yolo	SAYO 146002	6917	Cx tarsalis	Davis	50	CO2	9/19/2023	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02
Butte	BUCO 5	Honcut	9/12/2023	WNV	2155	
Calaveras	SCSD 9901	Copperopolis	9/14/2023	WNV	1932	
Contra Costa	CNTR 7402	Oakley	9/11/2023	WNV	1906	
Contra Costa	CNTR 8152	Knightsen	9/11/2023	WNV	1909	
Shasta	SHAS 9704	Redding	9/11/2023	SLEV	2732	
Sutter	SUYA 15	Robbins	9/14/2023	WNV	2823	
Sutter	SUYA 20	Meridian	9/14/2023	WNV	2815	
Yolo	SAYO 116006	Knights Landing	8/22/2023	WNV	2683	2684

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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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