

California Arbovirus Surveillance Bulletin #23

Week 37 Friday, September 15, 2023



WEEKLY UPDATE

Humans

West Nile virus

A total of 26 new human cases of West Nile virus (WNV) were reported this week from 14 counties: Butte (2), Kern (2), Kings (1), Los Angeles (5), Orange (1), Riverside (1), Sacramento (2), San Bernardino (1), San Joaquin (4), Solano (1), Stanislaus (1), Sutter (1), Tulare (2), and Yuba (2). **This is the first human case of WNV reported from Solano County this year.** In 2023, a total of 124 human cases of WNV have been reported from 24 counties. Of the 124 cases, 88 (71%) had neuroinvasive disease and 6 (5%) were fatal. The median age of the case-patients was 58 years and 79 (64%) of the case-patients were male. The dates of symptom onset ranged from June 30 to September 3. In addition to the 124 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, 54 WNV human cases had been reported from 15 counties.

St. Louis encephalitis virus

No cases of St. Louis encephalitis virus (SLEV) were reported this week. In 2023, 1 SLEV human case has been reported from 1 county. At this time last year, 4 SLEV human cases had been reported from 3 counties.

Dead Birds

A total of 65 new WNV positive dead birds were identified from 18 counties: Alameda (11), Butte (2), Contra Costa (7), El Dorado (1), Los Angeles (6), Marin (2), Napa (1), Placer (1), Riverside (4), Sacramento (4), San Diego (1), San Joaquin (1), Santa Clara (11), Shasta (1), Solano (4), Sonoma (3), Stanislaus (1), and Yolo (4). **These are the first WNV positive dead birds detected from Butte County and the first WNV activity detected for Marin County this year.** In 2023, 567 WNV positive dead birds have been reported from 28 counties. At this time last year, 141 WNV positive dead birds had been reported from 20 counties.

Mosquito Pools

West Nile virus

A total of 277 new WNV positive mosquito pools were identified from 25 counties: Alameda (2), Butte (2), Contra Costa (5), Fresno (17), Kern (4), Kings (10), Lake (3), Los Angeles (41), Madera (15), Merced (1), Napa (2), Orange (25), Placer (2), Riverside (14), Sacramento (23), San Bernardino (5), San Joaquin (23), Santa Clara (1), Shasta (15), Sonoma (2), Stanislaus (23), Sutter (3), Tulare (32), Yolo (6), and Yuba (1). **These are the first WNV positive mosquito pools from Sonoma County this year.** In 2023, 3,732 WNV positive mosquito pools have been reported from 30 counties. At this time last year, 2,665 WNV positive mosquito pools had been reported from 26 counties.

St. Louis encephalitis virus

A total of 66 new SLEV positive mosquito pools were identified from 12 counties: Fresno (10), Imperial (1), Kern (4), Kings (12), Madera (10), Placer (1), Riverside (3), San Joaquin (1), Shasta (1), Stanislaus (1), Tulare (21), and Yolo (1). **These are the first SLEV positive mosquito pools and the first SLEV activity in Placer and Shasta counties this year.** In 2023, 436 SLEV positive mosquito pools have been reported from 14 counties. At this time last year, 94 SLEV positive mosquito pools had been reported from 8 counties.

Sentinel Chickens

A total of 15 new WNV positive chickens were reported this week from 5 counties: Los Angeles (10), San Benito (1), Shasta (1), Solano (2), and Yolo (1). In 2023, 147 WNV positive chickens have been reported from 17 counties. At this time last year, 111 WNV positive chickens had been reported from 13 counties.

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2022 & 2023 YTD West Nile Virus Comparisons		
	2022	2023
Total No. Dead Bird Reports	3,927	5,203
No. Positive Counties	31	40
No. Human Cases	54	124
No. Positive Dead Birds / No. Tested	141 / 1,075	567 / 1,522
No. Positive Mosquito Pools / No. Tested	2,665 / 31,373	3,732 / 40,920
No. Seroconversions / No. Tested	111 / 4,031	147 / 3,019

YTD WNV Activity by Element and County, 2023					
County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			28	8	3
Butte	16	1	2	67	30
Calaveras					2
Colusa			2	2	2
Contra Costa	1		41	16	5
El Dorado	1		2		
Fresno		1	1	200	
Glenn	3			1	
Imperial				3	
Inyo				2	
Kern	4	2		92	
Kings	4	1		57	
Lake	4		3	25	
Los Angeles	12		27	354	13
Madera	1	1	1	192	
Marin			2		
Merced	2	1		37	22
Napa		1	3	6	
Nevada			1		2
Orange	2	1		71	
Placer	2	1	42	172	
Riverside	4		50	67	
Sacramento	12	2	173	330	5
San Benito					4
San Bernardino	10	1	10	127	
San Diego			2		
San Joaquin	9	1	19	576	
San Luis Obispo		2			
San Mateo			2		
Santa Clara	1	1	62	14	
Shasta	1		2	134	5
Solano	1		15	24	11
Sonoma			8	2	
Stanislaus	3	2	6	263	
Sutter	4		6	66	17
Tehama					4
Tulare	14	1	5	512	10
Ventura			3		
Yolo	8		49	286	5
Yuba	5	1		26	7
Totals	124	21	567	3,732	147

*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		96	
Imperial		3	
Inyo		1	
Kern	1	49	
Kings		19	
Madera		36	
Merced		4	
Placer		1	
Riverside		104	
San Joaquin		5	
Shasta		1	
Stanislaus		5	
Tulare		110	
Yolo		2	
Totals	1	436	0

TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	26	0	0
	YTD	124	1	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Dead Birds	Week	65 / 81					
	YTD	567 / 1,522					
Chicken Sera	Week	15 / 126	0 / 126	0 / 126			
	YTD	147 / 3,019	0 / 3,019	0 / 2,893			
Mosquito Pools	Week	277 / 2,369	66 / 2,064	0 / 2,064	0 / 19	0 / 19	0 / 19
	YTD	3,732 / 40,920	436 / 36,946	0 / 36,946	0 / 443	0 / 443	0 / 443

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported
Alameda	Alameda Co MAD	Alameda	94502	American Crow	9/12/2023
Alameda	Alameda Co MAD	Fremont	94536	American Crow	9/14/2023
Alameda	Alameda Co MAD	Fremont	94539	American Crow	9/14/2023
Alameda	Alameda Co MAD	Livermore	94550	Chickadee	9/11/2023
Alameda	Alameda Co MAD	Livermore	94550	American Crow	9/12/2023
Alameda	Alameda Co MAD	Livermore	94550	Finch	9/12/2023
Alameda	Alameda Co MAD	Livermore	94551	American Crow	9/6/2023
Alameda	Alameda Co MAD	Livermore	94551	American Crow	9/7/2023
Alameda	Alameda Co MAD	Livermore	94551	Unknown - Crow or Raven	9/11/2023
Alameda	Alameda Co MAD	Pleasanton	94566	American Crow	9/11/2023
Alameda	Alameda Co MAD	San Lorenzo	94580	American Crow	9/12/2023
Butte	Butte Co MVCD	Bangor	95914	Unknown - Crow or Raven	9/7/2023
Butte	Butte Co MVCD	Chico	95928	American Crow	8/29/2023
Contra Costa	Contra Costa MVCD	Antioch	94509	American Crow	8/30/2023
Contra Costa	Contra Costa MVCD	Concord	94518	American Crow	9/10/2023
Contra Costa	Contra Costa MVCD	Concord	94519	California Scrub-Jay	8/30/2023
Contra Costa	Contra Costa MVCD	Concord	94519	American Crow	9/8/2023
Contra Costa	Contra Costa MVCD	Concord	94520	American Crow	8/30/2023
Contra Costa	Contra Costa MVCD	Danville	94526	American Crow	9/8/2023
Contra Costa	Contra Costa MVCD	Kensington	94708	American Crow	9/6/2023
El Dorado	El Dorado Co Env Management	Rescue	95672	American Crow	8/22/2023
Los Angeles	Greater Los Angeles Co VCD - SFS	Long Beach	90808	American Crow	9/11/2023
Los Angeles	Greater Los Angeles Co VCD - SFS	Pacoima	91331	House Sparrow	8/31/2023
Los Angeles	Greater Los Angeles Co VCD - SFS	Whittier	90606	American Crow	8/29/2023
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Canoga Park	91304	Cooper's Hawk	8/31/2023
Los Angeles	Los Angeles Co West VCD	Culver City	90232	American Crow	8/25/2023
Los Angeles	Los Angeles Co West VCD	Los Angeles	90066	American Crow	8/25/2023
Marin	Marin-Sonoma MVCD	San Rafael	94901	American Crow	9/7/2023
Marin	Marin-Sonoma MVCD	San Rafael	94903	American Crow	9/6/2023
Napa	Napa Co MAD	American Canyon	94503	American Crow	8/31/2023
Placer	Placer MVCD	Roseville	95678	House Finch	9/12/2023
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/28/2023
Riverside	Northwest Mosquito VCD	Corona	92883	House Finch	8/29/2023
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	8/28/2023
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	8/28/2023
Sacramento	Sacramento-Yolo MVCD	Galt	95632	American Crow	9/5/2023
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	9/6/2023
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	9/8/2023
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	California Scrub-Jay	9/7/2023
San Diego	San Diego Co VCP	Valley Center	92082	California Scrub-Jay	9/11/2023
San Joaquin	San Joaquin Co MVCD	Tracy	95391	House Sparrow	9/11/2023
Santa Clara	Santa Clara Co VCD	Fremont	94538	American Crow	9/12/2023
Santa Clara	Santa Clara Co VCD	Los Altos	94022	American Crow	9/12/2023
Santa Clara	Santa Clara Co VCD	Morgan Hill	95037	American Crow	9/8/2023
Santa Clara	Santa Clara Co VCD	Morgan Hill	95037	American Crow	9/13/2023
Santa Clara	Santa Clara Co VCD	Mountain View	94041	American Crow	9/8/2023
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	9/8/2023
Santa Clara	Santa Clara Co VCD	San Jose	95111	American Crow	9/9/2023
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	9/8/2023
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	9/6/2023
Santa Clara	Santa Clara Co VCD	San Jose	95128	American Crow	9/11/2023
Santa Clara	Santa Clara Co VCD	San Jose	95130	American Crow	9/11/2023
Shasta	Shasta MVCD (or Tehama MVCD)	Cottonwood	96022	California Scrub-Jay	9/11/2023
Solano	Solano Co MAD	Fairfield	94533	California Scrub-Jay	9/8/2023
Solano	Solano Co MAD	Suisun City	94585	California Scrub-Jay	9/11/2023
Solano	Solano Co MAD	Vacaville	95687	American Crow	9/8/2023
Solano	Solano Co MAD	Vallejo	94591	American Crow	9/3/2023
Sonoma	Marin-Sonoma MVCD	Petaluma	94952	American Crow	9/7/2023
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95403	American Crow	9/8/2023
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95409	American Crow	9/11/2023
Stanislaus	Turlock MAD	Newman	95360	American Crow	8/30/2023
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	9/10/2023
Yolo	Sacramento-Yolo MVCD	Woodland	95776	Mourning Dove	9/7/2023

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Yolo	Sacramento-Yolo MVCD	Woodland	95776	Northern Mockingbird	9/8/2023
Yolo	Sacramento-Yolo MVCD	Woodland	95776	American Crow	9/11/2023

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus
Alameda	ALCO 6910	29617	Cx tarsalis	Livermore	8	CO2	9/13/2023	WNV
Alameda	ALCO 95	29601	Cx tarsalis	San Lorenzo	9	CO2	9/13/2023	WNV
Butte	BUCO 49	449	Cx tarsalis	Biggs	16	CO2	9/6/2023	WNV
Butte	BUCO 84	442	Cx tarsalis	Nelson	50	CO2	9/4/2023	WNV
Contra Costa	CNTR 141996	1154	Cx tarsalis	Concord	9	CO2	45175	WNV
Contra Costa	CNTR 141996	1252	Cx tarsalis	Concord	3	CO2	9/12/2023	WNV
Contra Costa	CNTR 213172	1245	Cx pipiens	Brentwood	13	CO2	9/12/2023	WNV
Contra Costa	CNTR 2302	1203	Cx tarsalis	Martinez	50	CO2	9/7/2023	WNV
Contra Costa	CNTR 713418	1235	Cx pipiens	Discovery Bay	4	CO2	9/12/2023	WNV
Fresno	CNSL 1062	262	Cx quinquefasciatus	Fresno	18	GRVD	9/7/2023	SLEV
Fresno	CNSL 1071	749	Cx quinquefasciatus	Clovis	31	GRVD	9/6/2023	WNV
Fresno	CNSL 1098	752	Cx quinquefasciatus	Clovis	22	GRVD	9/7/2023	WNV
Fresno	CNSL 1257	755	Cx quinquefasciatus	Clovis	50	GRVD	9/8/2023	WNV
Fresno	CNSL 1260	746	Cx quinquefasciatus	Clovis	23	GRVD	9/6/2023	WNV
Fresno	CNSL 1859	750	Cx quinquefasciatus	Fresno	32	GRVD	9/7/2023	WNV
Fresno	CNSL 1987	259	Cx quinquefasciatus	Clovis	50	GRVD	9/7/2023	SLEV
Fresno	CNSL 2142	754	Cx quinquefasciatus	Clovis	12	GRVD	9/8/2023	WNV
Fresno	CNSL 2416	272	Cx quinquefasciatus	Sanger	32	GRVD	9/8/2023	WNV
Fresno	CNSL 2416	272	Cx quinquefasciatus	Sanger	32	GRVD	9/8/2023	SLEV
Fresno	CNSL 2463	748	Cx quinquefasciatus	Sanger	50	GRVD	9/6/2023	SLEV
Fresno	CNSL 2523	273	Cx quinquefasciatus	Sanger	50	GRVD	9/8/2023	WNV
Fresno	CNSL 8165	263	Cx quinquefasciatus	Clovis	29	GRVD	9/7/2023	WNV
Fresno	CNSL 8192	747	Cx quinquefasciatus	Fresno	46	GRVD	9/6/2023	WNV
Fresno	CNSL 9078	264	Cx quinquefasciatus	Clovis	50	GRVD	9/8/2023	WNV
Fresno	FRNO 170	866	Cx quinquefasciatus	Fresno	26	GRVD	9/6/2023	WNV
Fresno	FRNO 171	874	Cx quinquefasciatus	Fresno	25	GRVD	9/7/2023	WNV
Fresno	FRNO 182	872	Cx quinquefasciatus	Fresno	15	GRVD	9/7/2023	WNV
Fresno	FRNO 182	872	Cx quinquefasciatus	Fresno	15	GRVD	9/7/2023	SLEV
Fresno	FRNO 279	865	Cx quinquefasciatus	Fresno	24	GRVD	9/6/2023	SLEV
Fresno	FRNO 8005	867	Cx quinquefasciatus	Fresno	13	GRVD	9/6/2023	SLEV
Fresno	FRWS 300031	400	Cx tarsalis	Firebaugh	50	CO2	9/12/2023	WNV
Fresno	FRWS 5116	391	Cx tarsalis	Tranquility	50	BGSENT	9/8/2023	WNV
Fresno	FRWS 5116	391	Cx tarsalis	Tranquility	50	BGSENT	9/8/2023	SLEV
Fresno	FRWS 5116	392	Cx tarsalis	Tranquility	50	BGSENT	9/8/2023	WNV
Fresno	FRWS 5116	392	Cx tarsalis	Tranquility	50	BGSENT	9/8/2023	SLEV
Fresno	FRWS 5116	404	Cx tarsalis	Tranquility	49	CO2	9/12/2023	SLEV
Imperial	IMPR 76	125	Cx quinquefasciatus	Holtville	19	CO2	9/7/2023	SLEV
Kern	DLNO 206	301	Cx quinquefasciatus	Mcfarland	32	BGSENT	8/31/2023	SLEV
Kern	DLNO 33	309	Cx tarsalis	Mcfarland	50	CO2	9/1/2023	WNV
Kern	DLNO 69	305	Cx quinquefasciatus	Delano	50	CO2	9/1/2023	SLEV
Kern	DLNO 83	314	Cx quinquefasciatus	Mcfarland	50	BGSENT	9/7/2023	WNV
Kern	DLNO 97	310	Cx quinquefasciatus	Delano	39	CO2	9/1/2023	WNV
Kern	KERN 3021	1185	Cx tarsalis	Wasco	31	CO2	9/6/2023	SLEV
Kern	KERN 3025	1186	Cx quinquefasciatus	Bakersfield	50	CO2	9/6/2023	WNV
Kern	KERN 3025	1186	Cx quinquefasciatus	Bakersfield	50	CO2	9/6/2023	SLEV
Kings	KNGS 3057	374	Cx tarsalis	Hanford	50	CO2	9/7/2023	WNV
Kings	KNGS 3057	374	Cx tarsalis	Hanford	50	CO2	9/7/2023	SLEV
Kings	KNGS 3074	394	Cx pipiens	Armona	50	CO2	9/7/2023	SLEV
Kings	KNGS 3083	396	Cx tarsalis	Lemoore	50	CO2	9/7/2023	SLEV
Kings	KNGS 3083	399	Cx pipiens	Lemoore	27	CO2	9/7/2023	SLEV
Kings	KNGS 3083	400	Cx erythrothorax	Lemoore	50	CO2	9/7/2023	SLEV
Kings	KNGS 3114	376	Cx tarsalis	Hanford	50	CO2	9/7/2023	SLEV
Kings	KNGS 3114	377	Cx pipiens	Hanford	17	CO2	9/7/2023	WNV
Kings	KNGS 3114	377	Cx pipiens	Hanford	17	CO2	9/7/2023	SLEV
Kings	KNGS 3127	370	Cx tarsalis	Corcoran	50	CO2	9/7/2023	WNV
Kings	KNGS 3127	370	Cx tarsalis	Corcoran	50	CO2	9/7/2023	SLEV
Kings	KNGS 3127	372	Cx tarsalis	Corcoran	50	CO2	9/7/2023	WNV
Kings	KNGS 3131	378	Cx tarsalis	Stratford	50	CO2	9/7/2023	SLEV
Kings	KNGS 3131	379	Cx tarsalis	Stratford	50	CO2	9/7/2023	WNV
Kings	KNGS 3131	379	Cx tarsalis	Stratford	50	CO2	9/7/2023	SLEV
Kings	KNGS 3131	382	Cx tarsalis	Stratford	50	CO2	9/7/2023	WNV
Kings	KNGS 3131	383	Cx pipiens	Stratford	50	CO2	9/7/2023	WNV

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Kings	KNGS 8010	366	Cx pipiens	Hanford	50	CO2	9/7/2023	WNV
Kings	KNGS 9005	387	Cx tarsalis	Nas Lemoore	50	CO2	9/7/2023	WNV
Kings	KNGS 9005	388	Cx tarsalis	Nas Lemoore	50	CO2	9/7/2023	SLEV
Kings	KNGS 9005	389	Cx tarsalis	Nas Lemoore	50	CO2	9/7/2023	WNV
Kings	KNGS 9005	389	Cx tarsalis	Nas Lemoore	50	CO2	9/7/2023	SLEV
Lake	LAKE 196	390	Cx tarsalis	Lakeport	31	CO2	9/6/2023	WNV
Lake	LAKE 367	396	Cx tarsalis	Kelseyville	30	CO2	9/12/2023	WNV
Lake	LAKE 94	398	Cx tarsalis	Upper Lake	15	CO2	9/12/2023	WNV
Los Angeles	GRLA 2278	691	Cx quinquefasciatus	Long Beach	50	BGSENT	9/7/2023	WNV
Los Angeles	GRLA 2299	704	Cx quinquefasciatus	Los Angeles	24	BGSENT	9/8/2023	WNV
Los Angeles	GRLA 2547	5729	Cx stigmatosoma	Lake View Terrace	20	BGSENT	9/8/2023	WNV
Los Angeles	GRLA 2574	5703	Cx quinquefasciatus	Sherman Oaks	50	GRVD	9/6/2023	WNV
Los Angeles	GRLA 2637	5708	Cx quinquefasciatus	Van Nuys	50	BGSENT	9/6/2023	WNV
Los Angeles	GRLA 2650	5707	Cx quinquefasciatus	Van Nuys	50	BGSENT	9/6/2023	WNV
Los Angeles	GRLA 2651	5704	Cx quinquefasciatus	Sepulveda Basin	50	GRVD	9/6/2023	WNV
Los Angeles	GRLA 2655	5705	Cx quinquefasciatus	Sepulveda Basin	50	GRVD	9/6/2023	WNV
Los Angeles	GRLA 2890	694	Cx quinquefasciatus	Lakewood	38	BGSENT	9/7/2023	WNV
Los Angeles	GRLA 2950	5734	Cx quinquefasciatus	Sunland	50	GRVD	9/8/2023	WNV
Los Angeles	GRLA 3000	5737	Cx quinquefasciatus	Sun Valley	50	GRVD	9/8/2023	WNV
Los Angeles	GRLA 3034	5711	Cx quinquefasciatus	North Hills	50	GRVD	9/6/2023	WNV
Los Angeles	GRLA 3047	673	Cx quinquefasciatus	Downey	50	BGSENT	9/6/2023	WNV
Los Angeles	GRLA 3051	689	Cx quinquefasciatus	Signal Hill	50	GRVD	9/7/2023	WNV
Los Angeles	GRLA 3056	680	Cx quinquefasciatus	Cudahy	50	BGSENT	9/6/2023	WNV
Los Angeles	GRLA 3057	681	Cx quinquefasciatus	Huntington Park	37	GRVD	9/6/2023	WNV
Los Angeles	GRLA 3089	5719	Cx quinquefasciatus	Glendale	50	GRVD	9/7/2023	WNV
Los Angeles	GRLA 3105	686	Cx quinquefasciatus	Vernon	47	BGSENT	9/6/2023	WNV
Los Angeles	GRLA 3133	5730	Cx quinquefasciatus	San Fernando	50	GRVD	9/8/2023	WNV
Los Angeles	SGVA 1009	697	Cx quinquefasciatus	Claremont	50	GRVD	9/12/2023	WNV
Los Angeles	SGVA 1069	679	Cx quinquefasciatus	La Puente	50	GRVD	9/12/2023	WNV
Los Angeles	SGVA 1070	746	Cx quinquefasciatus	Bradbury	20	GRVD	9/13/2023	WNV
Los Angeles	SGVA 1074	686	Cx quinquefasciatus	Temple City	50	GRVD	9/12/2023	WNV
Los Angeles	SGVA 1103	735	Cx quinquefasciatus	West Covina	50	GRVD	9/14/2023	WNV
Los Angeles	SGVA 1117	682	Cx quinquefasciatus	West Covina	50	GRVD	9/12/2023	WNV
Los Angeles	SGVA 1119	699	Cx quinquefasciatus	La Verne	50	GRVD	9/12/2023	WNV
Los Angeles	SGVA 1281	683	Cx quinquefasciatus	Covina	50	GRVD	9/12/2023	WNV
Los Angeles	SGVA 1316	724	Cx quinquefasciatus	West Covina	50	GRVD	9/14/2023	WNV
Los Angeles	SGVA 1318	713	Cx quinquefasciatus	La Puente	50	GRVD	9/14/2023	WNV
Los Angeles	SGVA 1323	730	Cx quinquefasciatus	Glendora	50	GRVD	9/14/2023	WNV
Los Angeles	SGVA 1323	731	Cx quinquefasciatus	Glendora	50	GRVD	9/14/2023	WNV
Los Angeles	SGVA 1325	742	Cx quinquefasciatus	Glendora	50	GRVD	9/14/2023	WNV
Los Angeles	SGVA 1326	739	Cx quinquefasciatus	San Dimas	50	GRVD	9/14/2023	WNV
Los Angeles	SGVA 385	692	Cx quinquefasciatus	Arcadia	50	GRVD	9/13/2023	WNV
Los Angeles	SGVA 450	707	Cx quinquefasciatus	La Puente	50	GRVD	9/14/2023	WNV
Los Angeles	SGVA 473	718	Cx quinquefasciatus	San Gabriel	50	GRVD	9/12/2023	WNV
Los Angeles	SGVA 686	677	Cx quinquefasciatus	West Covina	50	GRVD	9/12/2023	WNV
Los Angeles	SGVA 687	721	Cx quinquefasciatus	West Covina	50	GRVD	9/14/2023	WNV
Los Angeles	SGVA 7	695	Cx quinquefasciatus	Claremont	50	GRVD	9/12/2023	WNV
Los Angeles	SGVA 860	684	Cx quinquefasciatus	Baldwin Park	50	GRVD	9/12/2023	WNV
Los Angeles	SGVA 896	700	Cx quinquefasciatus	La Verne	50	GRVD	9/12/2023	WNV
Madera	MADR 1057	507	Cx quinquefasciatus	Chowchilla	50	CO2	9/6/2023	WNV
Madera	MADR 1057	508	Cx tarsalis	Chowchilla	46	CO2	9/6/2023	SLEV
Madera	MADR 195	502	Cx tarsalis	Madera	50	CO2	9/6/2023	WNV
Madera	MADR 198	498	Cx tarsalis	Madera	50	CO2	9/6/2023	WNV
Madera	MADR 198	498	Cx tarsalis	Madera	50	CO2	9/6/2023	SLEV
Madera	MADR 204	499	Cx tarsalis	Madera	15	CO2	9/6/2023	WNV
Madera	MADR 259	541	Cx tarsalis	Madera	50	CO2	9/8/2023	WNV
Madera	MADR 259	541	Cx tarsalis	Madera	50	CO2	9/8/2023	SLEV
Madera	MADR 300	503	Cx tarsalis	Chowchilla	43	CO2	9/6/2023	WNV
Madera	MADR 311	521	Cx tarsalis	Madera	17	CO2	9/7/2023	WNV
Madera	MADR 311	521	Cx tarsalis	Madera	17	CO2	9/7/2023	SLEV
Madera	MADR 3334	537	Cx quinquefasciatus	Madera	40	CO2	9/8/2023	WNV
Madera	MADR 581	511	Cx tarsalis	Madera	30	CO2	9/6/2023	WNV
Madera	MADR 581	513	Cx quinquefasciatus	Madera	11	CO2	9/6/2023	WNV
Madera	MADR 706	500	Cx tarsalis	Madera	27	CO2	9/6/2023	SLEV
Madera	MADR 726	530	Cx tarsalis	Madera	50	CO2	9/8/2023	WNV
Madera	MADR 726	530	Cx tarsalis	Madera	50	CO2	9/8/2023	SLEV
Madera	MADR 726	532	Cx tarsalis	Madera	50	CO2	9/8/2023	WNV
Madera	MADR 726	532	Cx tarsalis	Madera	50	CO2	9/8/2023	SLEV
Madera	MADR 731	526	Cx tarsalis	Madera	35	CO2	9/8/2023	WNV

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Madera	MADR 731	526	Cx tarsalis	Madera	35	CO2	9/8/2023	SLEV
Madera	MADR 731	528	Cx tarsalis	Madera	25	CO2	9/8/2023	SLEV
Madera	MADR 732	536	Cx tarsalis	Madera	20	CO2	9/8/2023	WNV
Madera	MADR 732	536	Cx tarsalis	Madera	20	CO2	9/8/2023	SLEV
Madera	MADR 85	516	Cx quinquefasciatus	Madera	5	CO2	9/7/2023	WNV
Merced	MERC 201722	713	Cx tarsalis	Winton	50	CO2	9/7/2023	WNV
Napa	NAPA 3045	257	Cx tarsalis	Napa	1	CO2	9/13/2023	WNV
Napa	NAPA 365377	258	Cx tarsalis	Napa	15	CO2	9/13/2023	WNV
Orange	ORCO 1008	3490	Cx quinquefasciatus	Fullerton	6	BGSENT	9/7/2023	WNV
Orange	ORCO 1033	3689	Cx quinquefasciatus	Tustin	50	GRVD	9/12/2023	WNV
Orange	ORCO 1042	3525	Cx quinquefasciatus	Yorba Linda	34	GRVD	9/8/2023	WNV
Orange	ORCO 1042	3526	Cx quinquefasciatus	Yorba Linda	33	GRVD	9/8/2023	WNV
Orange	ORCO 186	3589	Cx tarsalis	Fountain Valley	23	BGSENT	9/12/2023	WNV
Orange	ORCO 208	3821	Cx quinquefasciatus	Santa Ana	50	GRVD	9/15/2023	WNV
Orange	ORCO 215	3539	Cx quinquefasciatus	La Habra	24	CO2	9/7/2023	WNV
Orange	ORCO 218	3604	Cx quinquefasciatus	Anaheim	50	GRVD	9/12/2023	WNV
Orange	ORCO 218	3626	Cx quinquefasciatus	Anaheim	35	GRVD	9/12/2023	WNV
Orange	ORCO 218	3632	Cx quinquefasciatus	Anaheim	50	GRVD	9/12/2023	WNV
Orange	ORCO 218	3648	Cx quinquefasciatus	Anaheim	33	GRVD	9/12/2023	WNV
Orange	ORCO 218	3649	Cx quinquefasciatus	Anaheim	35	GRVD	9/12/2023	WNV
Orange	ORCO 218	3650	Cx quinquefasciatus	Anaheim	28	GRVD	9/12/2023	WNV
Orange	ORCO 218	3652	Cx quinquefasciatus	Anaheim	41	GRVD	9/12/2023	WNV
Orange	ORCO 218	3655	Cx quinquefasciatus	Anaheim	30	GRVD	9/12/2023	WNV
Orange	ORCO 218	3657	Cx quinquefasciatus	Anaheim	50	GRVD	9/12/2023	WNV
Orange	ORCO 235	3618	Cx quinquefasciatus	Stanton	50	GRVD	9/12/2023	WNV
Orange	ORCO 238	3776	Cx quinquefasciatus	Anaheim	29	GRVD	9/14/2023	WNV
Orange	ORCO 29	3540	Cx quinquefasciatus	Santa Ana	50	CO2	9/7/2023	WNV
Orange	ORCO 29	3808	Cx quinquefasciatus	Santa Ana	46	CO2	9/14/2023	WNV
Orange	ORCO 302	3752	Cx quinquefasciatus	Anaheim	35	GRVD	9/13/2023	WNV
Orange	ORCO 332	3712	Cx quinquefasciatus	Fullerton	25	BGSENT	9/12/2023	WNV
Orange	ORCO 338	3761	Cx quinquefasciatus	Anaheim	35	GRVD	9/13/2023	WNV
Orange	ORCO 338	3762	Cx quinquefasciatus	Anaheim	34	GRVD	9/13/2023	WNV
Orange	ORCO 338	3763	Cx quinquefasciatus	Anaheim	34	GRVD	9/13/2023	WNV
Placer	PLCR 1113	1504	Cx tarsalis	Pleasant Grove	50	CO2	9/12/2023	WNV
Placer	PLCR 191218	1506	Cx tarsalis	Roseville	50	CO2	9/12/2023	WNV
Placer	PLCR 191998	1523	Cx tarsalis	Lincoln	41	CO2	9/13/2023	SLEV
Riverside	COAV 13	4934	Cx tarsalis	Thermal	52	CO2	9/12/2023	WNV
Riverside	COAV 13	4934	Cx tarsalis	Thermal	52	CO2	9/12/2023	SLEV
Riverside	COAV 200	4487	Cx quinquefasciatus	Mecca	7	GRVD	9/12/2023	WNV
Riverside	COAV 200	4924	Cx tarsalis	Mecca	50	CO2	9/12/2023	WNV
Riverside	COAV 25	4831	Cx tarsalis	Mecca	50	CO2	9/12/2023	WNV
Riverside	COAV 25	4831	Cx tarsalis	Mecca	50	CO2	9/12/2023	SLEV
Riverside	COAV 410	4571	Cx quinquefasciatus	Rancho Mirage	36	GRVD	45177	WNV
Riverside	COAV 427	4657	Cx quinquefasciatus	Palm Desert	44	BGSENT	45177	WNV
Riverside	COAV 543	4847	Cx tarsalis	Thermal	50	CO2	9/12/2023	WNV
Riverside	COAV 610	4828	Cx tarsalis	Oasis	50	CO2	9/12/2023	SLEV
Riverside	COAV 829	5020	Cx quinquefasciatus	Rancho Mirage	46	BGSENT	9/14/2023	WNV
Riverside	COAV 832	4636	Cx quinquefasciatus	Rancho Mirage	43	BGSENT	45177	WNV
Riverside	NWST 156	213	Cx quinquefasciatus	Corona	28	GRVD	9/6/2023	WNV
Riverside	NWST 2	212	Cx quinquefasciatus	Corona	40	GRVD	9/6/2023	WNV
Riverside	NWST 56	232	Cx quinquefasciatus	Corona	50	CO2	9/12/2023	WNV
Riverside	NWST 83	221	Cx quinquefasciatus	Riverside	40	GRVD	9/7/2023	WNV
Riverside	NWST 9602	220	Cx quinquefasciatus	Riverside	50	GRVD	9/7/2023	WNV
Sacramento	SAYO 201006	6741	Cx tarsalis	Sacramento	50	CO2	9/12/2023	WNV
Sacramento	SAYO 202006	6747	Cx tarsalis	Sacramento	22	CO2	9/12/2023	WNV
Sacramento	SAYO 212033	6752	Cx tarsalis	Sacramento, Ca	46	CO2	9/12/2023	WNV
Sacramento	SAYO 213029	6491	Cx pipiens	Sacramento	1	CO2	9/8/2023	WNV
Sacramento	SAYO 214046	6572	Cx tarsalis	Rancho Cordova	4	CO2	9/8/2023	WNV
Sacramento	SAYO 214046	6573	Cx pipiens	Rancho Cordova	2	GRVD	9/8/2023	WNV
Sacramento	SAYO 215005	6585	Cx pipiens	Folsom	17	GRVD	9/8/2023	WNV
Sacramento	SAYO 222010	6648	Cx tarsalis	Sacramento	1	CO2	9/12/2023	WNV
Sacramento	SAYO 223039	6485	Cx pipiens	Sacramento	7	GRVD	9/8/2023	WNV
Sacramento	SAYO 232001	6647	Cx pipiens	Sacramento	4	GRVD	9/12/2023	WNV
Sacramento	SAYO 232029	6521	Cx pipiens	Elk Grove	16	CO2	9/8/2023	WNV
Sacramento	SAYO 232029	6522	Cx tarsalis	Elk Grove	50	CO2	9/8/2023	WNV
Sacramento	SAYO 232029	6524	Cx pipiens	Elk Grove	11	GRVD	9/8/2023	WNV
Sacramento	SAYO 232039	6530	Cx tarsalis	Sacramento	1	GRVD	9/8/2023	WNV
Sacramento	SAYO 233001	6718	Cx tarsalis	Elk Grove	2	CO2	9/12/2023	WNV
Sacramento	SAYO 233011	6494	Cx pipiens	Elk Grove	7	GRVD	9/8/2023	WNV

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Sacramento	SAYO 233023	6452	Cx pipiens	Elk Grove	1	CO2	9/8/2023	WNV
Sacramento	SAYO 242004	6549	Cx pipiens	Elk Grove	50	CO2	9/8/2023	WNV
Sacramento	SAYO 242004	6553	Cx tarsalis	Elk Grove	51	CO2	9/8/2023	WNV
Sacramento	SAYO 261003	6473	Cx tarsalis	Isleton	50	CO2	9/8/2023	WNV
Sacramento	SAYO 280001	6467	Cx tarsalis	Rio Vista	18	CO2	9/8/2023	WNV
Sacramento	SAYO 390941	6670	Cx tarsalis	South Sacramento	25	CO2	9/12/2023	WNV
Sacramento	SAYO 414756	6556	Cx tarsalis	Galt	16	CO2	9/8/2023	WNV
San Bernardino	WVAL 2030	2278	Cx quinquefasciatus	Ontario	50	BGSENT	9/15/2023	WNV
San Bernardino	WVAL 4721	2107	Cx quinquefasciatus	Chino	50	BGSENT	9/12/2023	WNV
San Bernardino	WVAL 4721	2109	Cx quinquefasciatus	Chino	50	BGSENT	9/12/2023	WNV
San Bernardino	WVAL 498	2186	Cx quinquefasciatus	Rancho Cucamonga	31	BGSENT	9/13/2023	WNV
San Bernardino	WVAL 5009	2131	Cx quinquefasciatus	Rancho Cucamonga	8	GRVD	9/12/2023	WNV
San Joaquin	SJCM 8010	2667	Cx tarsalis	Ripon	50	CO2	9/12/2023	WNV
San Joaquin	SJCM 8018	2694	Cx tarsalis	Stockton	50	CO2	9/12/2023	WNV
San Joaquin	SJCM 8027	2690	Cx tarsalis	Stockton	50	CO2	9/12/2023	WNV
San Joaquin	SJCM 8032	2764	Cx pipiens	Escalon	43	CO2	9/14/2023	WNV
San Joaquin	SJCM 8056	2672	Cx tarsalis	Manteca	49	CO2	9/12/2023	SLEV
San Joaquin	SJCM 8160	2718	Cx tarsalis	Lodi	50	CO2	9/12/2023	WNV
San Joaquin	SJCM 8160	2719	Cx tarsalis	Lodi	49	CO2	9/12/2023	WNV
San Joaquin	SJCM 8199	2661	Cx tarsalis	Manteca	50	CO2	9/12/2023	WNV
San Joaquin	SJCM 8205	2733	Cx tarsalis	Farmington	28	CO2	9/14/2023	WNV
San Joaquin	SJCM 8205	2734	Cx pipiens	Farmington	37	CO2	9/14/2023	WNV
San Joaquin	SJCM 8206	2706	Cx tarsalis	Lodi	50	CO2	9/12/2023	WNV
San Joaquin	SJCM 8206	2707	Cx tarsalis	Lodi	50	CO2	9/12/2023	WNV
San Joaquin	SJCM 8206	2708	Cx tarsalis	Lodi	50	CO2	9/12/2023	WNV
San Joaquin	SJCM 8206	2709	Cx tarsalis	Lodi	50	CO2	9/12/2023	WNV
San Joaquin	SJCM 8208	2743	Cx tarsalis	Lodi	50	CO2	9/14/2023	WNV
San Joaquin	SJCM 8208	2744	Cx tarsalis	Lodi	15	CO2	9/14/2023	WNV
San Joaquin	SJCM 8209	2749	Cx pipiens	Lodi	50	CO2	9/14/2023	WNV
San Joaquin	SJCM 8209	2751	Cx pipiens	Lodi	34	CO2	9/14/2023	WNV
San Joaquin	SJCM 8210	2659	Cx pipiens	Escalon	50	CO2	9/12/2023	WNV
San Joaquin	SJCM 8227	2648	Cx tarsalis	Ripon	10	CO2	9/12/2023	WNV
San Joaquin	SJCM 8228	2666	Cx pipiens	Escalon	12	CO2	9/12/2023	WNV
San Joaquin	SJCM 8253	2760	Cx tarsalis	Linden	50	CO2	9/14/2023	WNV
San Joaquin	SJCM 8253	2761	Cx tarsalis	Linden	5	CO2	9/14/2023	WNV
San Joaquin	SJCM 8253	2762	Cx pipiens	Linden	22	CO2	9/14/2023	WNV
Santa Clara	STCL 31622	3041	Cx tarsalis	San Jose	1	CO2-EVS	9/12/2023	WNV
Shasta	SHAS 10020	1917	Cx pipiens	Anderson	35	CO2	9/12/2023	WNV
Shasta	SHAS 110	1875	Cx pipiens	Redding	50	CO2	9/7/2023	WNV
Shasta	SHAS 110	1966	Cx pipiens	Redding	50	CO2	9/13/2023	WNV
Shasta	SHAS 130	1948	Cx pipiens	Redding	27	CO2	9/13/2023	WNV
Shasta	SHAS 148	1909	Cx pipiens	Cottonwood	50	CO2	9/12/2023	WNV
Shasta	SHAS 177	1871	Cx pipiens	Redding	27	CO2	9/7/2023	WNV
Shasta	SHAS 231	1903	Cx pipiens	Anderson	48	CO2	9/12/2023	WNV
Shasta	SHAS 410	1912	Cx pipiens	Cottonwood	50	CO2	9/12/2023	WNV
Shasta	SHAS 459	1946	Cx pipiens	Redding	33	CO2	9/13/2023	WNV
Shasta	SHAS 618	1921	Cx pipiens	Anderson	38	CO2	9/12/2023	WNV
Shasta	SHAS 618	1921	Cx pipiens	Anderson	38	CO2	9/12/2023	SLEV
Shasta	SHAS 619	1958	Cx pipiens	Redding	47	CO2	9/13/2023	WNV
Shasta	SHAS 80	1924	Cx pipiens	Anderson	32	CO2	9/12/2023	WNV
Shasta	SHAS 917	1867	Cx pipiens	Redding	52	CO2	9/7/2023	WNV
Shasta	SHAS 917	1926	Cx pipiens	Redding	50	CO2	9/12/2023	WNV
Shasta	SHAS 93	1894	Cx pipiens	Anderson	40	CO2	9/12/2023	WNV
Sonoma	MARN 313	554	Cx stigmatosoma	Santa Rosa	11	GRVD	45181	WNV
Sonoma	MARN 313	554	Cx stigmatosoma	Santa Rosa	11	GRVD	9/12/2023	WNV
Stanislaus	EAST 1045	23225	Cx pipiens	Modesto	16	GRVD	45170	WNV
Stanislaus	EAST 1054	23224	Cx pipiens	Salida	32	GRVD	45170	WNV
Stanislaus	EAST 1077	23217	Cx pipiens	Modesto	17	GRVD	45168	WNV
Stanislaus	EAST 1088	23218	Cx pipiens	Modesto	30	GRVD	45168	WNV
Stanislaus	EAST 2050	23214	Cx pipiens	Modesto	50	GRVD	45167	WNV
Stanislaus	EAST 2050	23215	Cx pipiens	Modesto	43	GRVD	45167	WNV
Stanislaus	TRLK 1214	1589	Cx pipiens	Turlock	50	CO2	9/12/2023	WNV
Stanislaus	TRLK 1612	1594	Cx pipiens	Turlock	50	CO2	9/12/2023	WNV
Stanislaus	TRLK 17131	1612	Cx pipiens	Turlock	42	CO2	9/12/2023	WNV
Stanislaus	TRLK 17152	1608	Cx pipiens	Denair	50	CO2	9/12/2023	WNV
Stanislaus	TRLK 1966	1624	Cx pipiens	Hughson	50	CO2	9/12/2023	WNV
Stanislaus	TRLK 23260	1550	Cx pipiens	Turlock	50	CO2	9/8/2023	WNV
Stanislaus	TRLK 23260	1553	Cx pipiens	Turlock	50	CO2	9/8/2023	WNV
Stanislaus	TRLK 23261	1539	Cx pipiens	Turlock	50	CO2	9/8/2023	WNV

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Stanislaus	TRLK 23261	1540	Cx pipiens	Turlock	50	CO2	9/8/2023	WNV
Stanislaus	TRLK 23263	1570	Cx pipiens	Denair	40	CO2	9/8/2023	WNV
Stanislaus	TRLK 23264	1568	Cx pipiens	Denair	50	CO2	9/8/2023	SLEV
Stanislaus	TRLK 23279	1529	Cx pipiens	Ceres	50	CO2	9/8/2023	WNV
Stanislaus	TRLK 23280	1534	Cx pipiens	Ceres	50	CO2	9/8/2023	WNV
Stanislaus	TRLK 432	1597	Cx pipiens	Turlock	50	CO2	9/12/2023	WNV
Stanislaus	TRLK 432	1598	Cx pipiens	Turlock	50	CO2	9/12/2023	WNV
Stanislaus	TRLK 432	1599	Cx pipiens	Turlock	50	CO2	9/12/2023	WNV
Stanislaus	TRLK 526	1610	Cx pipiens	Denair	50	CO2	9/12/2023	WNV
Stanislaus	TRLK 536	1575	Cx pipiens	Turlock	44	CO2	9/12/2023	WNV
Sutter	SUYA 14	557	Cx tarsalis	Sutter	11	REST	9/11/2023	WNV
Sutter	SUYA 44	546	Cx tarsalis	Pleasant Grove	50	CO2	45176	WNV
Sutter	SUYA 44	547	Cx tarsalis	Pleasant Grove	50	CO2	45176	WNV
Tulare	DLNO 219	311	Cx quinquefasciatus	Earlilmart	18	GRVD	9/6/2023	WNV
Tulare	DLTA 64073	5823	Cx quinquefasciatus	Dinuba	50	GRVD	9/7/2023	SLEV
Tulare	DLTA 64073	5824	Cx quinquefasciatus	Dinuba	45	GRVD	9/7/2023	SLEV
Tulare	DLTA 6417	5774	Cx quinquefasciatus	Dinuba	21	BGSENT	45175	WNV
Tulare	DLTA 6420	5695	Cx stigmatosoma	Dinuba	23	BGSENT	45170	SLEV
Tulare	DLTA 6420	5870	Cx quinquefasciatus	Dinuba	28	GRVD	9/8/2023	WNV
Tulare	DLTA 6420	5871	Cx stigmatosoma	Dinuba	18	GRVD	9/8/2023	SLEV
Tulare	DLTA 6518	5700	Cx stigmatosoma	Cutler	11	GRVD	45170	WNV
Tulare	DLTA 6518	5700	Cx stigmatosoma	Cutler	11	GRVD	45170	SLEV
Tulare	DLTA 6520	5785	Cx quinquefasciatus	Cutler	36	BGSENT	9/7/2023	SLEV
Tulare	DLTA 7502	5746	Cx quinquefasciatus	Seville	15	BGSENT	45175	WNV
Tulare	DLTA 752032	5706	Cx quinquefasciatus	Patterson Tract	50	CO2	45175	WNV
Tulare	DLTA 752842	5702	Cx quinquefasciatus	Ivanhoe	50	CO2	45175	SLEV
Tulare	DLTA 752914	5714	Cx quinquefasciatus	Patterson Tract	50	CO2	45175	WNV
Tulare	DLTA 752914	5718	Cx quinquefasciatus	Patterson Tract	50	CO2	45175	SLEV
Tulare	DLTA 8324	5860	Cx quinquefasciatus	Goshen	21	GRVD	9/8/2023	WNV
Tulare	DLTA 8413	5752	Cx quinquefasciatus	Visalia	50	BGSENT	45175	WNV
Tulare	DLTA 8414	5913	Cx quinquefasciatus	Visalia	50	BGSENT	9/12/2023	SLEV
Tulare	DLTA 8414	5935	Cx quinquefasciatus	Visalia	50	BGSENT	9/12/2023	WNV
Tulare	DLTA 8414	5936	Cx quinquefasciatus	Visalia	13	BGSENT	9/12/2023	WNV
Tulare	DLTA 8414	5936	Cx quinquefasciatus	Visalia	13	BGSENT	9/12/2023	SLEV
Tulare	DLTA 84194	5698	Cx quinquefasciatus	Visalia	12	GRVD	45170	WNV
Tulare	DLTA 8424	5921	Cx quinquefasciatus	Visalia	50	BGSENT	9/12/2023	WNV
Tulare	DLTA 84242	5748	Cx quinquefasciatus	Visalia	24	BGSENT	9/6/2023	WNV
Tulare	DLTA 8426	5811	Cx quinquefasciatus	Visalia	34	BGSENT	9/7/2023	SLEV
Tulare	DLTA 84344	5861	Cx quinquefasciatus	Visalia	50	BGSENT	9/8/2023	WNV
Tulare	DLTA 84344	5862	Cx quinquefasciatus	Visalia	30	BGSENT	9/8/2023	WNV
Tulare	DLTA 8435	5827	Cx quinquefasciatus	Visalia	26	GRVD	9/7/2023	SLEV
Tulare	DLTA 8507	5740	Cx quinquefasciatus	Visalia	50	BGSENT	45175	SLEV
Tulare	DLTA 8507	5741	Cx quinquefasciatus	Visalia	43	BGSENT	45175	WNV
Tulare	DLTA 85193	5786	Cx quinquefasciatus	Visalia	23	BGSENT	9/7/2023	SLEV
Tulare	DLTA 8520	5729	Cx quinquefasciatus	Visalia	42	BGSENT	45175	SLEV
Tulare	DLTA 8520	5779	Cx quinquefasciatus	Visalia	16	BGSENT	9/7/2023	SLEV
Tulare	DLTA 85301	5895	Cx quinquefasciatus	Visalia	42	GRVD	9/12/2023	WNV
Tulare	DLTA 85301	5896	Cx quinquefasciatus	Visalia	10	GRVD	9/12/2023	WNV
Tulare	DLTA 85322	5842	Cx quinquefasciatus	Visalia	47	BGSENT	9/8/2023	SLEV
Tulare	DLTA 8533	5813	Cx quinquefasciatus	Visalia	46	GRVD	9/7/2023	WNV
Tulare	DLTA 9401	5899	Cx tarsalis	Visalia	10	BGSENT	9/12/2023	SLEV
Tulare	DLTA 94023	5836	Cx tarsalis	Visalia	18	BGSENT	9/7/2023	WNV
Tulare	DLTA 94032	5768	Cx quinquefasciatus	Visalia	32	BGSENT	45175	SLEV
Tulare	DLTA 9411	5800	Cx quinquefasciatus	Visalia	22	BGSENT	9/7/2023	WNV
Tulare	DLTA 9411	5800	Cx quinquefasciatus	Visalia	22	BGSENT	9/7/2023	SLEV
Tulare	DLTA 95044	5697	Cx quinquefasciatus	Visalia	16	BGSENT	45170	WNV
Tulare	DLTA 95044	5872	Cx quinquefasciatus	Visalia	50	GRVD	9/8/2023	WNV
Tulare	DLTA 9505	5856	Cx quinquefasciatus	Visalia	23	GRVD	9/8/2023	WNV
Tulare	DLTA 95063	5828	Cx quinquefasciatus	Visalia	10	GRVD	9/7/2023	SLEV
Tulare	DLTA 96103	5815	Cx quinquefasciatus	Exeter	50	BGSENT	9/7/2023	WNV
Tulare	DLTA 96103	5816	Cx quinquefasciatus	Exeter	22	BGSENT	9/7/2023	WNV
Tulare	DLTA 96103	5817	Cx stigmatosoma	Exeter	50	BGSENT	9/7/2023	WNV
Tulare	TLRE 129	139	Cx quinquefasciatus	Tulare	30	GRVD	45170	WNV
Tulare	TLRE 141	134	Cx quinquefasciatus	Tulare	50	GRVD	45161	WNV
Tulare	TLRE 159	138	Cx quinquefasciatus	Tulare	50	GRVD	45163	WNV
Tulare	TLRE 490	133	Cx quinquefasciatus	Tulare	15	GRVD	45156	WNV
Yolo	SAYO 124007	6509	Cx tarsalis	Woodland	49	CO2	9/8/2023	SLEV
Yolo	SAYO 125011	6701	Cx tarsalis	Woodland	8	CO2	9/12/2023	WNV
Yolo	SAYO 125012	6675	Cx tarsalis	Woodland	15	CO2	9/12/2023	WNV

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Yolo	SAYO 125018	6697	Cx tarsalis	Woodland	50	CO2	9/12/2023	WNV
Yolo	SAYO 135006	6503	Cx tarsalis	Woodland	50	CO2	9/8/2023	WNV
Yolo	SAYO 145005	6609	Cx pipiens	Davis	2	GRVD	9/12/2023	WNV
Yolo	SAYO 146017	6601	Cx tarsalis	Davis	50	CO2	9/12/2023	WNV
Yuba	SUYA 4	541	Cx tarsalis	Wheatland	32	CO2	45175	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03
Los Angeles	LACW 1007	Baldwin Hills	9/7/2023	WNV	2033		
Los Angeles	LACW 1009	Los Angeles	8/29/2023	WNV	2038		
Los Angeles	LACW 1010	Los Angeles	8/29/2023	WNV	2042		
Los Angeles	LACW 1024	Calabasas	8/29/2023	WNV	2082		
Los Angeles	LACW 1049	Inglewood	9/7/2023	WNV	2066	2067	2068
Los Angeles	LONG 4	Long Beach	9/11/2023	WNV	2931	2936	2940
Shasta	SHAS 9704	Redding	9/11/2023	WNV	2731		
Solano	SOLA 50	Fairfield	9/8/2023	WNV	2761		
Solano	SOLA 148	Fairfield	9/8/2023	WNV	2756		
San Benito	SBVC 0	Hollister	9/12/2023	WNV	1967		
Yolo	SAYO 116006	Knights Landing	9/11/2023	WNV	2699		

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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