

## California Arbovirus Surveillance Bulletin #19

Week 33 Friday, August 18, 2023



### WEEKLY UPDATE

#### Humans

##### West Nile virus

A total of 15 human cases of West Nile virus (WNV) were reported this week from 7 counties: Butte (2), Lake (4), Los Angeles (1), San Bernardino (2), Santa Clara (1), Tulare (4), and Yolo (1). **These are the first human cases of WNV reported from Lake, Los Angeles, Santa Clara, and Yolo counties this year.** In 2023, a total of 26 human cases of WNV have been reported from 12 counties: Butte (4), Kern (1), Lake (4), Los Angeles (1), Madera (1), Merced (1), Riverside (1), San Bernardino (4), San Joaquin (1), Santa Clara (1), Tulare (6), and Yolo (1). Of the 26 cases, 20 (77%) had neuroinvasive disease and 2 (8%) were fatal. The median age of the case-patients was 60 years and 19 (73%) of the case-patients were male. The dates of symptom onset ranged from June 30 to Aug 3. In addition to the 26 WNV human cases, 4 asymptomatic WNV-positive blood donors have been reported from 3 counties: Butte (1), Los Angeles (2), and San Bernardino (1). At this time last year, 18 human cases of WNV had been reported from 10 counties.

##### St. Louis encephalitis virus

No human cases of St. Louis encephalitis virus (SLEV) were reported this week. In 2023, 1 human case of SLEV has been reported from 1 county. At this time last year, 3 human cases of SLEV had been reported from 2 counties.

#### Dead Birds

A total of 51 new WNV positive dead birds were reported this week from 15 counties: Alameda (1), Contra Costa (5), Lake (1), Los Angeles (1), Napa (1), Placer (4), Riverside (5), Sacramento (13), San Bernardino (1), San Joaquin (1), Santa Clara (6), Shasta (1), Solano (3), Sutter (1), and Yolo (7). **These are the first WNV positive dead birds reported from Napa and Shasta counties this year.** In 2023, 287 WNV positive dead birds have been reported from 22 counties. At this time last year, 78 WNV positive dead birds had been reported from 15 counties.

#### Mosquito Pools

##### West Nile virus

A total of 460 new WNV positive mosquito pools were identified from 24 counties: Alameda (1), Butte (6), Contra Costa (2), Fresno (27), Kern (15), Lake (2), Los Angeles (47), Madera (23), Merced (2), Napa (2), Orange (9), Placer (17), Riverside (5), Sacramento (37), San Bernardino (16), San Joaquin (69), Santa Clara (1), Shasta (20), Solano (4), Stanislaus (19), Sutter (8), Tulare (65), Yolo (59), and Yuba (4). In 2023, 2,458 WNV positive mosquito pools have been reported from 26 counties. At this time last year, 1,609 WNV positive mosquito pools had been reported from 24 counties.

##### St. Louis encephalitis virus

A total of 31 new SLEV positive mosquito pools were identified from 9 counties: Fresno (8), Inyo (1), Kern (6), Madera (1), Merced (1), Riverside (1), San Joaquin (1), Stanislaus (1), and Tulare (11). **These are the first SLEV positive mosquito pool reported from Inyo and Merced counties this year.** In 2023, 213 SLEV positive mosquito pools have been reported from 11 counties. At this time last year, 20 SLEV positive pools had been reported from 4 counties.

#### Sentinel Chickens

A total of 9 new WNV positive chickens were reported this week from 3 counties: Colusa (1), Merced (3), and Solano (5). **These are the first WNV positive sentinel chickens reported from Colusa and Solano counties this year.** In 2023, 69 WNV positive chickens have been reported from 7 counties. At this time last year, 40 WNV positive chickens had been reported from 7 counties.

## California Arbovirus Surveillance Bulletin #19

Week 33 Friday, August 18, 2023

<b>2022 &amp; 2023 YTD West Nile Virus Comparisons</b>		
	<b>2022</b>	<b>2023</b>
Total No. Dead Bird Reports	3,389	4,116
No. Positive Counties	26	31
No. Human Cases	18	26
No. Positive Dead Birds / No. Tested	78 / 902	287 / 1,138
No. Positive Mosquito Pools / No. Tested	1,609 / 24,322	2,458 / 32,987
No. Seroconversions / No. Tested	40 / 3,246	69 / 2,405

<b>YTD WNV Activity by Element and County, 2023</b>					
<b>County</b>	<b>Humans*</b>	<b>Horses</b>	<b>Dead Birds</b>	<b>Mosquito Pools</b>	<b>Sentinel Chickens</b>
Alameda			8	5	
Butte	4			48	22
Colusa			7		1
Contra Costa			5	7	
El Dorado			1		
Fresno		1		97	
Imperial				3	
Kern	1	1		67	
Kings		1		47	
Lake	4		2	9	
Los Angeles	1		13	188	
Madera	1			88	
Merced	1			15	22
Napa			1	4	
Orange				21	
Placer			24	144	
Riverside	1		21	31	
Sacramento			114	225	
San Bernardino	4		4	79	
San Joaquin	1		14	406	
San Mateo			1		
Santa Clara	1		24	6	
Shasta			1	87	
Solano			7	17	5
Sonoma			2		
Stanislaus			2	155	
Sutter			6	56	8
Tulare	6		5	387	8
Ventura			3		
Yolo	1		22	245	
Yuba				21	3
<b>Totals</b>	<b>26</b>	<b>3</b>	<b>287</b>	<b>2,458</b>	<b>69</b>

\*Asymptomatic human infections are not included.

## California Arbovirus Surveillance Bulletin #19

Week 33 Friday, August 18, 2023

<b>YTD SLEV Activity by Element and County, 2023</b>			
<b>County</b>	<b>Humans</b>	<b>Mosquito Pools</b>	<b>Sentinel Chickens</b>
Fresno		36	
Imperial		2	
Inyo		1	
Kern	1	30	
Kings		7	
Madera		2	
Merced		1	
Riverside		100	
San Joaquin		2	
Stanislaus		4	
Tulare		28	
<b>Totals</b>	<b>1</b>	<b>213</b>	<b>0</b>

### TESTING SUMMARIES

		<b>WNV</b>	<b>SLEV</b>	<b>WEEV</b>
<b>Human Cases</b>	Week	15	0	0
	YTD	26	1	0

		<b>Positive / Total Tested</b>					
		<b>WNV</b>	<b>SLEV</b>	<b>WEEV</b>	<b>CHIK</b>	<b>DENV</b>	<b>ZIKA</b>
<b>Dead Birds</b>	Week	51 / 131					
	YTD	287 / 1,138					
<b>Chicken Sera</b>	Week	9 / 128	0 / 128	0 / 128			
	YTD	69 / 2,405	0 / 2,405	0 / 2,405			
<b>Mosquito Pools</b>	Week	460 / 2,220	31 / 2,003	0 / 2,003	0 / 83	0 / 83	0 / 83
	YTD	2,458 / 32,987	213 / 29,740	0 / 32,046	0 / 386	0 / 386	0 / 386

## California Arbovirus Surveillance Bulletin #19

Week 33 Friday, August 18, 2023

### NEW POSITIVES

#### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Livermore	94550	Western Bluebird	8/15/2023	WNV
Contra Costa	Alameda Co MAD	Brentwood	94513	American Crow	8/11/2023	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	California Scrub-Jay	8/14/2023	WNV
Contra Costa	Contra Costa MVCD	Concord	94518	American Crow	8/14/2023	WNV
Contra Costa	Contra Costa MVCD	Martinez	94553	Steller's Jay	8/10/2023	WNV
Contra Costa	Contra Costa MVCD	Rodeo	94572	American Crow	8/10/2023	WNV
Lake	Lake Co VCD	Clearlake Oaks	95423	Sparrow	8/14/2023	WNV
Los Angeles	San Gabriel Valley MVCD	Temple City	91780	American Crow	8/15/2023	WNV
Napa	Napa Co MAD	Napa	94558	American Robin	8/14/2023	WNV
Placer	Placer MVCD	Roseville	95747	House Finch	8/15/2023	WNV
Placer	Placer MVCD	Roseville	95747	Mourning Dove	8/14/2023	WNV
Placer	Placer MVCD	Roseville	95747	Mourning Dove	8/16/2023	WNV
Placer	Placer MVCD	Roseville	95747	Northern Mockingbird	8/17/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/7/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/10/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/10/2023	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	House Finch	8/7/2023	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	House Sparrow	8/7/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	American Crow	8/14/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	California Towhee	8/13/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	American Crow	8/10/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	8/11/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	8/11/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	8/13/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	California Scrub-Jay	8/9/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	California Scrub-Jay	8/9/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95841	California Scrub-Jay	8/9/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	California Scrub-Jay	8/14/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	House Finch	8/9/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95824	Mourning Dove	8/9/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Robin	8/11/2023	WNV
San Bernardino	West Valley MVCD	Ontario	91761	House Finch	8/8/2023	WNV
San Joaquin	San Joaquin Co MVCD	Lodi	95240	Yellow-billed Magpie	8/13/2023	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	8/10/2023	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	8/14/2023	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	8/14/2023	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Robin	8/11/2023	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	8/10/2023	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	California Scrub-Jay	8/10/2023	WNV
Shasta	Shasta MVCD	Redding	96003	California Scrub-Jay	8/15/2023	WNV
Solano	Solano Co MAD	Davis	95618	American Crow	8/14/2023	WNV
Solano	Solano Co MAD	Dixon	95620	California Scrub-Jay	8/17/2023	WNV
Solano	Solano Co MAD	Fairfield	94534	Western Bluebird	8/14/2023	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95993	American Crow	8/16/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/10/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	8/11/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Northern Mockingbird	8/11/2023	WNV
Yolo	Sacramento-Yolo MVCD	West Sacramento	95605	American Crow	8/14/2023	WNV
Yolo	Sacramento-Yolo MVCD	West Sacramento	95691	American Crow	8/14/2023	WNV
Yolo	Sacramento-Yolo MVCD	Winters	95694	California Scrub-Jay	8/12/2023	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	Yellow-billed Magpie	8/13/2023	WNV

## California Arbovirus Surveillance Bulletin #19

Week 33 Friday, August 18, 2023

### Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus
Alameda	ALCO 100053	30440	Cx erythrothorax	Livermore	8	CO2	8/16/2023	WNV
Butte	BUCO 118	392	Cx tarsalis	Chico	50	CO2	8/7/2023	WNV
Butte	BUCO 118	393	Cx tarsalis	Chico	50	CO2	8/7/2023	WNV
Butte	BUCO 175	397	Cx tarsalis	Gridley	50	CO2	8/8/2023	WNV
Butte	BUCO 175	398	Cx tarsalis	Gridley	50	CO2	8/8/2023	WNV
Butte	BUCO 176	388	Cx tarsalis	Gridley	50	CO2	8/7/2023	WNV
Butte	BUCO 176	389	Cx tarsalis	Gridley	50	CO2	8/7/2023	WNV
Contra Costa	CNTR 2302	950	Cx tarsalis	Martinez	50	CO2	8/15/2023	WNV
Contra Costa	CNTR 661	925	Cx tarsalis	Byron	30	CO2	8/15/2023	WNV
Fresno	CNSL 1041	224	Cx tarsalis	Fresno	50	CO2	8/9/2023	WNV
Fresno	CNSL 1254	681	Cx quinquefasciatus	Clovis	32	GRVD	8/8/2023	WNV
Fresno	CNSL 1257	695	Cx quinquefasciatus	Clovis	38	GRVD	8/11/2023	SLEV
Fresno	CNSL 1416	226	Cx quinquefasciatus	Fresno	50	GRVD	8/10/2023	WNV
Fresno	CNSL 1422	218	Cx quinquefasciatus	Fresno	27	GRVD	8/8/2023	WNV
Fresno	CNSL 1647	696	Cx quinquefasciatus	Fresmpn	37	GRVD	8/11/2023	WNV
Fresno	CNSL 1695	227	Cx quinquefasciatus	Fresno	50	GRVD	8/10/2023	WNV
Fresno	CNSL 1884	685	Cx quinquefasciatus	Clovis	26	GRVD	8/8/2023	WNV
Fresno	CNSL 1911	222	Cx quinquefasciatus	Fresno	49	BGSENT	8/9/2023	SLEV
Fresno	CNSL 2074	230	Cx quinquefasciatus	Sanger	50	GRVD	8/11/2023	WNV
Fresno	CNSL 3429	693	Cx quinquefasciatus	Parlier	21	GRVD	8/10/2023	WNV
Fresno	CNSL 4219	686	Cx quinquefasciatus	Selma	26	GRVD	8/9/2023	WNV
Fresno	CNSL 4225	219	Cx quinquefasciatus	Selma	16	GRVD	8/9/2023	WNV
Fresno	CNSL 4305	220	Cx quinquefasciatus	Selma	50	CO2	8/9/2023	WNV
Fresno	CNSL 4308	694	Cx quinquefasciatus	Fowler	50	GRVD	8/10/2023	WNV
Fresno	CNSL 4308	694	Cx quinquefasciatus	Fowler	50	GRVD	8/10/2023	SLEV
Fresno	CNSL 8137	229	Cx quinquefasciatus	Fresno	17	GRVD	8/11/2023	WNV
Fresno	CNSL 8214	691	Cx quinquefasciatus	Fresno	50	GRVD	8/10/2023	WNV
Fresno	CNSL 9039	689	Cx quinquefasciatus	Clovis	50	GRVD	8/10/2023	WNV
Fresno	CNSL 9222	692	Cx quinquefasciatus	Clovis	46	GRVD	8/10/2023	WNV
Fresno	FRNO 109	712	Cx. quinquefasciatus	Fresno	22	GRVD	8/8/2023	WNV
Fresno	FRNO 162	720	Cx. quinquefasciatus	Fresno	42	GRVD	8/8/2023	WNV
Fresno	FRNO 162	720	Cx quinquefasciatus	Fresno	42	GRVD	8/8/2023	SLEV
Fresno	FRNO 172	727	Cx quinquefasciatus	Fresno	20	GRVD	8/8/2023	SLEV
Fresno	FRNO 214	716	Cx. quinquefasciatus	KERMAN	34	GRVD	8/8/2023	WNV
Fresno	FRNO 229	729	Aedes aegypti	Fresno	50	BGSENT	8/8/2023	SLEV
Fresno	FRNO 256	743	Cx. quinquefasciatus	Fresno	13	GRVD	8/10/2023	WNV
Fresno	FRNO 257	726	Cx. quinquefasciatus	Fresno	31	GRVD	8/8/2023	WNV
Fresno	FRNO 8	717	Cx. quinquefasciatus	Fresno	21	GRVD	8/8/2023	WNV
Fresno	FRNO 8002	715	Cx. quinquefasciatus	Fresno	20	GRVD	8/8/2023	WNV
Fresno	FRNO 87	736	Cx quinquefasciatus	Fresno	50	GRVD	8/9/2023	SLEV
Fresno	FRNO 88	721	Cx. quinquefasciatus	Fresno	20	GRVD	8/8/2023	WNV
Fresno	FRNO 94	732	Cx. tarsalis	Fresno	10	BGSENT	8/8/2023	WNV
Fresno	FRWS 100006	318	Cx tarsalis	Dos Palos	50	CO2	8/15/2023	SLEV
Fresno	FRWS 1101	322	Cx tarsalis	Dos Palos	50	CO2	8/15/2023	WNV
Inyo	INYO 1035	54	Cx tarsalis	Bishop	50	CO2-EVS	8/15/2023	SLEV
Kern	DLNO 108	242	Cx quinquefasciatus	Delano	15	GRVD	8/8/2023	WNV
Kern	DLNO 116	258	Cx quinquefasciatus	Delano	28	GRVD	8/15/2023	WNV
Kern	DLNO 135	253	Cx quinquefasciatus	Delano	27	GRVD	8/11/2023	WNV
Kern	DLNO 135	253	Cx quinquefasciatus	Delano	27	GRVD	8/11/2023	SLEV
Kern	DLNO 165	251	Cx quinquefasciatus	Delano	22	GRVD	8/11/2023	WNV
Kern	DLNO 172	248	Cx quinquefasciatus	Delano	15	BGSENT	8/9/2023	SLEV
Kern	DLNO 38	250	Cx quinquefasciatus	Delano	18	GRVD	8/11/2023	WNV
Kern	DLNO 43	256	Cx quinquefasciatus	Mcfarland	50	GRVD	8/15/2023	WNV
Kern	DLNO 48	254	Cx quinquefasciatus	Delano	19	GRVD	8/15/2023	WNV
Kern	DLNO 55	252	Cx quinquefasciatus	Mcfarland	18	GRVD	8/11/2023	SLEV
Kern	DLNO 87	260	Cx quinquefasciatus	Mcfarland	21	GRVD	8/15/2023	WNV
Kern	DLNO 87	260	Cx quinquefasciatus	Mcfarland	21	GRVD	8/15/2023	SLEV
Kern	KERN 115	1150	Cx quinquefasciatus	Bakersfield	20	CO2	8/11/2023	WNV
Kern	KERN 117	1146	Cx quinquefasciatus	Bakersfield	50	CO2	8/9/2023	WNV
Kern	KERN 117	1146	Cx quinquefasciatus	Bakersfield	50	CO2	8/9/2023	SLEV
Kern	KERN 118	1140	Cx quinquefasciatus	Buttonwillow	33	CO2	8/9/2023	WNV
Kern	KERN 118	1141	Cx tarsalis	Buttonwillow	36	CO2	8/9/2023	WNV
Kern	KERN 121	1149	Cx quinquefasciatus	Bakersfield	20	GRVD	8/10/2023	SLEV
Kern	KERN 3014	1139	Cx tarsalis	Bakersfield	46	CO2	8/9/2023	WNV
Kern	KERN 31	1145	Cx tarsalis	Arvin	36	CO2	8/9/2023	WNV
Kern	KERN 33	1148	Cx quinquefasciatus	Arvin	27	CO2	8/9/2023	WNV

## California Arbovirus Surveillance Bulletin #19

Week 33 Friday, August 18, 2023

Lake	LAKE 196	279	Cx tarsalis	Lakeport	50	CO2	8/16/2023	WNV
Lake	LAKE 250	284	Cx tarsalis	Lakeport	48	CO2	8/16/2023	WNV
Los Angeles	GRLA 2007	5570	Cx quinquefasciatus	Toluca Lake	50	GRVD	8/9/2023	WNV
Los Angeles	GRLA 2017	5573	Cx quinquefasciatus	Studio City	50	BGSENT	8/9/2023	WNV
Los Angeles	GRLA 2097	560	Cx quinquefasciatus	La Mirada	50	GRVD	8/9/2023	WNV
Los Angeles	GRLA 2100	567	Cx quinquefasciatus	Norwalk	29	GRVD	8/9/2023	WNV
Los Angeles	GRLA 2268	566	Cx quinquefasciatus	Cerritos	46	GRVD	8/9/2023	WNV
Los Angeles	GRLA 2540	5589	Cx quinquefasciatus	Porter Ranch	50	GRVD	8/10/2023	WNV
Los Angeles	GRLA 2635	5581	Cx quinquefasciatus	Lake Balboa	50	GRVD	8/10/2023	WNV
Los Angeles	GRLA 2783	582	Cx quinquefasciatus	Cerritos	50	GRVD	8/10/2023	WNV
Los Angeles	GRLA 2936	5568	Cx quinquefasciatus	Burbank	50	GRVD	8/8/2023	WNV
Los Angeles	GRLA 2939	5559	Cx quinquefasciatus	Burbank	41	GRVD	8/8/2023	WNV
Los Angeles	GRLA 2952	559	Cx quinquefasciatus	South Whittier(La County)	51	GRVD	8/9/2023	WNV
Los Angeles	GRLA 2955	564	Cx quinquefasciatus	Cerritos	50	GRVD	8/9/2023	WNV
Los Angeles	GRLA 3000	5596	Cx quinquefasciatus	Sun Valley	50	GRVD	8/11/2023	WNV
Los Angeles	GRLA 3038	5576	Cx quinquefasciatus	Valley Village	50	GRVD	8/9/2023	WNV
Los Angeles	GRLA 3064	577	Cx quinquefasciatus	West Athens Village	50	GRVD	8/10/2023	WNV
Los Angeles	GRLA 3066	5577	Cx quinquefasciatus	Valley Glen	50	GRVD	8/9/2023	WNV
Los Angeles	GRLA 3067	590	Cx quinquefasciatus	Gardena	50	GRVD	8/11/2023	WNV
Los Angeles	GRLA 3069	5574	Cx quinquefasciatus	Valley Village	50	GRVD	8/9/2023	WNV
Los Angeles	GRLA 3076	5578	Cx quinquefasciatus	Valley Glen	50	GRVD	8/9/2023	WNV
Los Angeles	GRLA 3080	5575	Cx quinquefasciatus	North Hollywood	49	GRVD	8/9/2023	WNV
Los Angeles	GRLA 3097	5599	Cx quinquefasciatus	Arleta	50	GRVD	8/11/2023	WNV
Los Angeles	GRLA 3102	5572	Cx quinquefasciatus	Studio City	50	GRVD	8/9/2023	WNV
Los Angeles	GRLA 3133	5591	Cx quinquefasciatus	San Fernando	50	GRVD	8/11/2023	WNV
Los Angeles	LACW 1002	522	Cx quinquefasciatus	Torrance	20	GRVD	8/8/2023	WNV
Los Angeles	LACW 1048	531	Cx quinquefasciatus	Inglewood	30	CO2	8/10/2023	WNV
Los Angeles	LACW 1054	528	Cx quinquefasciatus	Inglewood	30	CO2	8/10/2023	WNV
Los Angeles	SGVA 1009	483	Cx quinquefasciatus	Claremont	50	GRVD	8/15/2023	WNV
Los Angeles	SGVA 1119	477	Cx quinquefasciatus	La Verne	50	GRVD	8/15/2023	WNV
Los Angeles	SGVA 1281	475	Cx quinquefasciatus	Covina	50	GRVD	8/15/2023	WNV
Los Angeles	SGVA 1299	517	Cx quinquefasciatus	Glendora	31	GRVD	8/17/2023	WNV
Los Angeles	SGVA 1300	509	Cx quinquefasciatus	Glendora	36	GRVD	8/17/2023	WNV
Los Angeles	SGVA 1300	510	Cx quinquefasciatus	Glendora	37	GRVD	8/17/2023	WNV
Los Angeles	SGVA 1301	515	Cx quinquefasciatus	San Dimas	42	GRVD	8/17/2023	WNV
Los Angeles	SGVA 1301	516	Cx quinquefasciatus	San Dimas	43	GRVD	8/17/2023	WNV
Los Angeles	SGVA 1303	501	Cx quinquefasciatus	Altadena	50	GRVD	8/17/2023	WNV
Los Angeles	SGVA 448	494	Cx quinquefasciatus	La Verne	50	GRVD	8/15/2023	WNV
Los Angeles	SGVA 457	495	Cx quinquefasciatus	Pomona	50	GRVD	8/15/2023	WNV
Los Angeles	SGVA 477	470	Cx quinquefasciatus	West Covina	50	GRVD	8/15/2023	WNV
Los Angeles	SGVA 484	524	Cx quinquefasciatus	Duarte	20	GRVD	8/15/2023	WNV
Los Angeles	SGVA 686	482	Cx quinquefasciatus	West Covina	50	GRVD	8/15/2023	WNV
Los Angeles	SGVA 688	493	Cx quinquefasciatus	Alhambra	50	GRVD	8/15/2023	WNV
Los Angeles	SGVA 7	472	Cx quinquefasciatus	Claremont	50	GRVD	8/15/2023	WNV
Los Angeles	SGVA 915	503	Cx quinquefasciatus	San Dimas	33	GRVD	8/17/2023	WNV
Los Angeles	SGVA 915	504	Cx quinquefasciatus	San Dimas	34	GRVD	8/17/2023	WNV
Los Angeles	SGVA 915	505	Cx quinquefasciatus	San Dimas	34	GRVD	8/17/2023	WNV
Los Angeles	SGVA 960	491	Cx quinquefasciatus	Rosemead	50	GRVD	8/15/2023	WNV
Los Angeles	SGVA 965	478	Cx quinquefasciatus	Claremont	50	GRVD	8/15/2023	WNV
Madera	MADR 12	298	Cx quinquefasciatus	Madera	50	CO2	8/10/2023	WNV
Madera	MADR 189	271	Cx tarsalis	Firebaugh	50	CO2	8/8/2023	WNV
Madera	MADR 195	288	Cx quinquefasciatus	Madera	24	CO2	8/10/2023	WNV
Madera	MADR 195	289	Cx tarsalis	Madera	50	CO2	8/10/2023	WNV
Madera	MADR 204	297	Cx tarsalis	Madera	50	CO2	8/10/2023	WNV
Madera	MADR 227	285	Cx tarsalis	Madera	50	CO2	8/9/2023	WNV
Madera	MADR 259	306	Cx tarsalis	Madera	50	CO2	8/11/2023	WNV
Madera	MADR 259	308	Cx tarsalis	Madera	50	CO2	8/11/2023	WNV
Madera	MADR 259	308	Cx tarsalis	Madera	50	CO2	8/11/2023	SLEV
Madera	MADR 298	265	Cx quinquefasciatus	Chowchilla	26	CO2	8/8/2023	WNV
Madera	MADR 309	303	Cx tarsalis	Madera	50	CO2	8/11/2023	WNV
Madera	MADR 309	304	Cx tarsalis	Madera	34	CO2	8/11/2023	WNV
Madera	MADR 311	275	Cx tarsalis	Madera	50	CO2	8/9/2023	WNV
Madera	MADR 3334	281	Cx tarsalis	Madera	21	CO2	8/9/2023	WNV
Madera	MADR 581	309	Cx quinquefasciatus	Madera	50	CO2	8/11/2023	WNV
Madera	MADR 581	310	Cx tarsalis	Madera	50	CO2	8/11/2023	WNV
Madera	MADR 581	311	Cx quinquefasciatus	Madera	50	CO2	8/11/2023	WNV
Madera	MADR 581	312	Cx tarsalis	Madera	50	CO2	8/11/2023	WNV
Madera	MADR 690	313	Cx quinquefasciatus	Madera	50	CO2	8/11/2023	WNV
Madera	MADR 697	262	Cx tarsalis	Firebaugh	42	CO2	8/8/2023	WNV

## California Arbovirus Surveillance Bulletin #19

Week 33 Friday, August 18, 2023

Madera	MADR 704	300	Cx quinquefasciatus	Madera	50	CO2	8/10/2023	WNV
Madera	MADR 704	301	Cx tarsalis	Madera	50	CO2	8/10/2023	WNV
Madera	MADR 706	295	Cx tarsalis	Madera	50	CO2	8/10/2023	WNV
Madera	MADR 714	318	Cx quinquefasciatus	Madera	19	BGSENT	8/11/2023	WNV
Merced	FRWS 100009	321	Cx tarsalis	Dos Palos	37	CO2	8/15/2023	SLEV
Merced	MERC 1103	641	Cx pipiens	Winton	16	CO2	8/15/2023	WNV
Merced	MERC 201780	643	Cx tarsalis	Cressey95312	10	CO2	8/15/2023	WNV
Napa	NAPA 3038	195	Cx. tarsalis	Napa	15	CO2	8/8/2023	WNV
Napa	NAPA 3038	198	Cx. tarsalis	Napa	23	CO2	8/8/2023	WNV
Orange	ORCO 208	3050	Cx quinquefasciatus	Santa Ana	36	CO2	8/17/2023	WNV
Orange	ORCO 29	3041	Cx quinquefasciatus	Santa Ana	48	CO2	8/17/2023	WNV
Orange	ORCO 29	3043	Cx quinquefasciatus	Santa Ana	47	CO2	8/17/2023	WNV
Orange	ORCO 323	2981	Cx quinquefasciatus	Buena Park	32	GRVD	8/15/2023	WNV
Orange	ORCO 326	2956	Cx quinquefasciatus	La Habra	12	GRVD	8/15/2023	WNV
Orange	ORCO 334	2978	Cx quinquefasciatus	Cypress	39	GRVD	8/15/2023	WNV
Orange	ORCO 335	2979	Cx quinquefasciatus	Orange	47	GRVD	8/15/2023	WNV
Orange	ORCO 364	3020	Cx quinquefasciatus	Garden Grove	35	GRVD	8/16/2023	WNV
Orange	ORCO 41	2953	Cx quinquefasciatus	Anaheim	24	GRVD	8/15/2023	WNV
Placer	PLCR 1113	1123	Cx tarsalis	Pleasant Grove	50	CO2	8/15/2023	WNV
Placer	PLCR 1114	1115	Cx tarsalis	Lincoln	50	CO2	8/15/2023	WNV
Placer	PLCR 139	1102	Cx tarsalis	Roseville	50	CO2	8/15/2023	WNV
Placer	PLCR 191218	1143	Cx tarsalis	Roseville	36	CO2	8/15/2023	WNV
Placer	PLCR 191373	1151	Cx tarsalis	Unknown	50	CO2	8/15/2023	WNV
Placer	PLCR 191373	1152	Cx tarsalis	Unknown	50	CO2	8/15/2023	WNV
Placer	PLCR 191373	1153	Cx tarsalis	Unknown	50	CO2	8/15/2023	WNV
Placer	PLCR 191373	1154	Cx tarsalis	Unknown	50	CO2	8/15/2023	WNV
Placer	PLCR 191998	1145	Cx tarsalis	Lincoln	37	CO2	8/15/2023	WNV
Placer	PLCR 198710	1126	Cx tarsalis	Lincoln	50	CO2	8/15/2023	WNV
Placer	PLCR 198710	1128	Cx tarsalis	Lincoln	14	CO2	8/15/2023	WNV
Placer	PLCR 30	1139	Cx tarsalis	Lincoln	8	CO2	8/15/2023	WNV
Placer	PLCR 525	1130	Cx pipiens	Lincoln	25	CO2	8/15/2023	WNV
Placer	PLCR 678519	1147	Cx tarsalis	Elverta	50	CO2	8/15/2023	WNV
Placer	PLCR 678519	1148	Cx tarsalis	Elverta	50	CO2	8/15/2023	WNV
Placer	PLCR 678519	1149	Cx tarsalis	Elverta	50	CO2	8/15/2023	WNV
Placer	PLCR 678519	1150	Cx tarsalis	Elverta	50	CO2	8/15/2023	WNV
Riverside	COAV 0	4337	Cx tarsalis	Indio	50	CO2	8/17/2023	SLEV
Riverside	COAV 33	4321	Cx tarsalis	Thermal	38	CO2	8/15/2023	WNV
Riverside	NWST 156	171	Cx. quinquefasciatus	Corona	50	BGSENT	7/27/2023	WNV
Riverside	NWST 248	174	Cx. stigmatosoma	6984 Biscayne Ave	28	GRVD	8/3/2023	WNV
Riverside	NWST 276	170	Cx. quinquefasciatus	Corona	43	GRVD	7/27/2023	WNV
Riverside	NWST 67	172	Cx. quinquefasciatus	Corona	50	BGSENT	7/27/2023	WNV
Sacramento	SAYO 137	5283	Cx pipiens	Sacramento	6	BGSENT	8/15/2023	WNV
Sacramento	SAYO 137	5284	Cx tarsalis	Sacramento	13	BGSENT	8/15/2023	WNV
Sacramento	SAYO 201006	5213	Cx tarsalis	Sacramento	50	CO2	8/16/2023	WNV
Sacramento	SAYO 201006	5214	Cx tarsalis	Sacramento	50	CO2	8/16/2023	WNV
Sacramento	SAYO 201006	5219	Cx tarsalis	Sacramento	6	GRVD	8/16/2023	WNV
Sacramento	SAYO 202006	5240	Cx tarsalis	Sacramento	50	CO2	8/16/2023	WNV
Sacramento	SAYO 202006	5242	Cx tarsalis	Sacramento	50	CO2	8/16/2023	WNV
Sacramento	SAYO 203037	5249	Cx pipiens	Elverta	8	CO2	8/16/2023	WNV
Sacramento	SAYO 204020	5217	Cx tarsalis	Sacramento	10	CO2	8/16/2023	WNV
Sacramento	SAYO 222064	5167	Cx pipiens	Sacramento	15	GRVD	8/16/2023	WNV
Sacramento	SAYO 223044	5158	Cx pipiens	Sacramento	10	GRVD	8/15/2023	WNV
Sacramento	SAYO 223044	5159	Cx tarsalis	Sacramento	4	GRVD	8/15/2023	WNV
Sacramento	SAYO 232012	5201	Cx tarsalis	Elk Grove	13	CO2	8/16/2023	WNV
Sacramento	SAYO 232029	4912	Cx tarsalis	Elk Grove	50	CO2	8/11/2023	WNV
Sacramento	SAYO 232029	4919	Cx pipiens	Elk Grove	11	GRVD	8/11/2023	WNV
Sacramento	SAYO 234013	5185	Cx pipiens	Elk Grove	5	GRVD	8/16/2023	WNV
Sacramento	SAYO 235009	4892	Cx tarsalis	Wilton	11	CO2	8/11/2023	WNV
Sacramento	SAYO 243032	4922	Cx pipiens	Elk Grove	11	GRVD	8/11/2023	WNV
Sacramento	SAYO 245002	4860	Cx tarsalis	Wilton	31	CO2	8/11/2023	WNV
Sacramento	SAYO 253016	4915	Cx tarsalis	Galt	50	CO2	8/11/2023	WNV
Sacramento	SAYO 253016	4918	Cx pipiens	Galt	4	GRVD	8/11/2023	WNV
Sacramento	SAYO 254020	4909	Cx tarsalis	Galt	8	CO2	8/11/2023	WNV
Sacramento	SAYO 271003	4881	Cx tarsalis	Isleton	50	CO2	8/11/2023	WNV
Sacramento	SAYO 271003	4884	Cx tarsalis	Isleton	50	CO2	8/11/2023	WNV
Sacramento	SAYO 271007	4869	Cx pipiens	Isleton	33	CO2	8/11/2023	WNV
Sacramento	SAYO 271007	4870	Cx tarsalis	Isleton	50	CO2	8/11/2023	WNV
Sacramento	SAYO 271007	4873	Cx tarsalis	Isleton	50	CO2	8/11/2023	WNV
Sacramento	SAYO 271007	4874	Cx tarsalis	Isleton	47	CO2	8/11/2023	WNV

## California Arbovirus Surveillance Bulletin #19

Week 33 Friday, August 18, 2023

Sacramento	SAYO 271007	4875	Cx pipiens	Isleton	3	GRVD	8/11/2023	WNV
Sacramento	SAYO 389228	4943	Cx tarsalis	Sacramento	20	BGSENT	8/11/2023	WNV
Sacramento	SAYO 410392	5260	Cx tarsalis	Rio Linda	19	BGSENT	8/15/2023	WNV
Sacramento	SAYO 412698	4769	Cx pipiens	Sacramento	19	BGSENT	8/10/2023	WNV
Sacramento	SAYO 412995	4944	Cx pipiens	Elk Grove	7	BGSENT	8/11/2023	WNV
Sacramento	SAYO 413384	5277	Cx tarsalis	Elverta	38	BGSENT	8/15/2023	WNV
Sacramento	SAYO 413385	5268	Cx tarsalis	Elverta	50	BGSENT	8/15/2023	WNV
Sacramento	SAYO 413385	5269	Cx tarsalis	Elverta	50	BGSENT	8/15/2023	WNV
Sacramento	SAYO 413450	5280	Cx tarsalis	Sacramento	6	BGSENT	8/15/2023	WNV
San Bernardino	SANB 193	238	Cx quinquefasciatus	Rialto	17	GRVD	8/10/2023	WNV
San Bernardino	SANB 37	229	Cx tarsalis	San Bernardino	31	CO2	8/8/2023	WNV
San Bernardino	SANB 37	231	Cx tarsalis	San Bernardino	49	CO2	8/8/2023	WNV
San Bernardino	SANB 37	235	Cx tarsalis	San Bernardino	50	CO2	8/8/2023	WNV
San Bernardino	SANB 37	236	Cx tarsalis	San Bernardino	50	CO2	8/8/2023	WNV
San Bernardino	SANB 62	239	Cx quinquefasciatus	Highland	29	GRVD	8/11/2023	WNV
San Bernardino	WVAL 12	1565	Cx quinquefasciatus	Chino	15	BGSENT	8/16/2023	WNV
San Bernardino	WVAL 2003	1534	Cx tarsalis	Chino	21	CO2	8/15/2023	WNV
San Bernardino	WVAL 2006	1580	Cx tarsalis	Chino	50	CO2	8/16/2023	WNV
San Bernardino	WVAL 2024	1583	Cx quinquefasciatus	Chino Hills	6	GRVD	8/16/2023	WNV
San Bernardino	WVAL 318	1636	Cx quinquefasciatus	Chino	15	BGSENT	8/18/2023	WNV
San Bernardino	WVAL 459	1588	Cx quinquefasciatus	Ontario	30	BGSENT	8/16/2023	WNV
San Bernardino	WVAL 5005	1569	Cx quinquefasciatus	Rancho Cucamonga	23	GRVD	8/16/2023	WNV
San Bernardino	WVAL 5702	1633	Cx quinquefasciatus	Upland	6	BGSENT	8/18/2023	WNV
San Bernardino	WVAL 6060	1615	Cx quinquefasciatus	Upland	8	BGSENT	8/17/2023	WNV
San Bernardino	WVAL 9005	1531	Cx quinquefasciatus	Upland	10	GRVD	8/15/2023	WNV
San Joaquin	SJCM 8004	2203	Cx pipiens	Lodi	7	CO2	8/15/2023	WNV
San Joaquin	SJCM 8008	2156	Cx tarsalis	Manteca	43	CO2	8/15/2023	WNV
San Joaquin	SJCM 8010	2193	Cx tarsalis	Ripon	37	CO2	8/15/2023	WNV
San Joaquin	SJCM 8010	2194	Cx pipiens	Ripon	46	CO2	8/15/2023	WNV
San Joaquin	SJCM 8018	2209	Cx tarsalis	Stockton	100	CO2	8/15/2023	WNV
San Joaquin	SJCM 8018	2210	Cx tarsalis	Stockton	100	CO2	8/15/2023	WNV
San Joaquin	SJCM 8018	2211	Cx tarsalis	Stockton	100	CO2	8/15/2023	WNV
San Joaquin	SJCM 8018	2212	Cx tarsalis	Stockton	100	CO2	8/15/2023	WNV
San Joaquin	SJCM 8018	2213	Cx tarsalis	Stockton	100	CO2	8/15/2023	WNV
San Joaquin	SJCM 8022	2140	Cx tarsalis	Holt	22	CO2	8/15/2023	WNV
San Joaquin	SJCM 8027	2149	Cx tarsalis	Stockton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8027	2150	Cx tarsalis	Stockton	45	CO2	8/15/2023	WNV
San Joaquin	SJCM 8029	2267	Cx tarsalis	Farmington	21	CO2	8/17/2023	WNV
San Joaquin	SJCM 8029	2268	Cx pipiens	Farmington	100	CO2	8/17/2023	WNV
San Joaquin	SJCM 8029	2269	Cx pipiens	Farmington	100	CO2	8/17/2023	WNV
San Joaquin	SJCM 8029	2270	Cx pipiens	Farmington	100	CO2	8/17/2023	WNV
San Joaquin	SJCM 8029	2271	Cx pipiens	Farmington	100	CO2	8/17/2023	WNV
San Joaquin	SJCM 8029	2272	Cx pipiens	Farmington	100	CO2	8/17/2023	WNV
San Joaquin	SJCM 8032	2253	Cx pipiens	Escalon	50	CO2	8/17/2023	WNV
San Joaquin	SJCM 8032	2254	Cx pipiens	Escalon	13	CO2	8/17/2023	WNV
San Joaquin	SJCM 8048	2242	Cx tarsalis	Stockton	27	CO2	8/17/2023	SLEV
San Joaquin	SJCM 8077	2204	Cx tarsalis	Stockton	28	CO2	8/15/2023	WNV
San Joaquin	SJCM 8077	2205	Cx pipiens	Stockton	13	CO2	8/15/2023	WNV
San Joaquin	SJCM 8083	2157	Cx tarsalis	Escalon	46	CO2	8/15/2023	WNV
San Joaquin	SJCM 8083	2158	Cx pipiens	Escalon	51	CO2	8/15/2023	WNV
San Joaquin	SJCM 8094	2165	Cx tarsalis	Manteca	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8097	2183	Cx tarsalis	Banta	16	CO2	8/15/2023	WNV
San Joaquin	SJCM 8097	2184	Cx pipiens	Banta	6	CO2	8/15/2023	WNV
San Joaquin	SJCM 8111	2175	Cx tarsalis	Stockton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8111	2176	Cx tarsalis	Stockton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8111	2177	Cx tarsalis	Stockton	18	CO2	8/15/2023	WNV
San Joaquin	SJCM 8143	2214	Cx tarsalis	Stockton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8143	2215	Cx tarsalis	Stockton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8143	2216	Cx tarsalis	Stockton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8143	2217	Cx tarsalis	Stockton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8143	2218	Cx tarsalis	Stockton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8143	2219	Cx pipiens	Stockton	31	CO2	8/15/2023	WNV
San Joaquin	SJCM 8160	2187	Cx tarsalis	Lodi	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8160	2189	Cx tarsalis	Lodi	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8161	2143	Cx tarsalis	Ripon	13	CO2	8/15/2023	WNV
San Joaquin	SJCM 8198	2208	Cx tarsalis	Stockton	27	CO2	8/15/2023	WNV
San Joaquin	SJCM 8199	2172	Cx tarsalis	Manteca	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8199	2173	Cx tarsalis	Manteca	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8203	2192	Cx tarsalis	Lodi	42	CO2	8/15/2023	WNV



## California Arbovirus Surveillance Bulletin #19

Week 33 Friday, August 18, 2023

San Joaquin	SJCM 8204	2220	Cx tarsalis	Stockton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8204	2221	Cx tarsalis	Stockton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8204	2222	Cx tarsalis	Stockton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8204	2224	Cx tarsalis	Stockton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8205	2263	Cx tarsalis	Farmington	50	CO2	8/17/2023	WNV
San Joaquin	SJCM 8206	2226	Cx tarsalis	Lodi	100	CO2	8/15/2023	WNV
San Joaquin	SJCM 8206	2227	Cx tarsalis	Lodi	100	CO2	8/15/2023	WNV
San Joaquin	SJCM 8206	2228	Cx tarsalis	Lodi	100	CO2	8/15/2023	WNV
San Joaquin	SJCM 8206	2229	Cx tarsalis	Lodi	100	CO2	8/15/2023	WNV
San Joaquin	SJCM 8206	2230	Cx tarsalis	Lodi	100	CO2	8/15/2023	WNV
San Joaquin	SJCM 8209	2248	Cx pipiens	Lodi	34	CO2	8/17/2023	WNV
San Joaquin	SJCM 8211	2185	Cx tarsalis	Stockton	1	CO2	8/15/2023	WNV
San Joaquin	SJCM 8211	2206	Cx tarsalis	Stockton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8219	2145	Cx tarsalis	Stockton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8219	2146	Cx tarsalis	Stockton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8219	2148	Cx pipiens	Stockton	5	CO2	8/15/2023	WNV
San Joaquin	SJCM 8224	2255	Cx tarsalis	Lodi	51	CO2	8/17/2023	WNV
San Joaquin	SJCM 8230	2231	Cx tarsalis	Thornton	100	CO2	8/15/2023	WNV
San Joaquin	SJCM 8230	2232	Cx tarsalis	Thornton	100	CO2	8/15/2023	WNV
San Joaquin	SJCM 8230	2233	Cx tarsalis	Thornton	100	CO2	8/15/2023	WNV
San Joaquin	SJCM 8230	2234	Cx tarsalis	Thornton	100	CO2	8/15/2023	WNV
San Joaquin	SJCM 8230	2236	Cx pipiens	Thornton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8233	2159	Cx tarsalis	Stockton	50	CO2	8/15/2023	WNV
San Joaquin	SJCM 8233	2161	Cx pipiens	Stockton	14	CO2	8/15/2023	WNV
San Joaquin	SJCM 8248	2180	Cx pipiens	Tracy	5	CO2	8/15/2023	WNV
San Joaquin	SJCM 8253	2260	Cx tarsalis	Linden	22	CO2	8/17/2023	WNV
Santa Clara	STCL 31245	2421	Cx pipiens	San Jose	25	GRVD	8/11/2023	WNV
Shasta	SHAS 10020	1618	Cx tarsalis	Anderson	50	CO2	8/15/2023	WNV
Shasta	SHAS 1009	1639	Cx tarsalis	Bella Vista	31	CO2	8/16/2023	WNV
Shasta	SHAS 10140	1561	Cx pipiens	Anderson	50	CO2	8/15/2023	WNV
Shasta	SHAS 10140	1562	Cx pipiens	Anderson	27	CO2	8/15/2023	WNV
Shasta	SHAS 116	1598	Cx pipiens	Anderson	43	CO2	8/16/2023	WNV
Shasta	SHAS 130	1607	Cx tarsalis	Redding	23	CO2	8/16/2023	WNV
Shasta	SHAS 20040	1623	Cx tarsalis	Redding	14	CO2	8/16/2023	WNV
Shasta	SHAS 375	1647	Cx tarsalis	Bella Vista	40	CO2	8/16/2023	WNV
Shasta	SHAS 618	1544	Cx tarsalis	Anderson	34	CO2	8/15/2023	WNV
Shasta	SHAS 629	1586	Cx pipiens	Anderson	50	CO2	8/15/2023	WNV
Shasta	SHAS 634	1575	Cx pipiens	Anderson	50	CO2	8/15/2023	WNV
Shasta	SHAS 654	1564	Cx pipiens	Anderson	50	BGPRO-SENT	8/14/2023	WNV
Shasta	SHAS 654	1565	Cx pipiens	Anderson	42	BGPRO-SENT	8/14/2023	WNV
Shasta	SHAS 906	1557	Cx pipiens	Redding	19	CO2	8/15/2023	WNV
Shasta	SHAS 906	1558	Cx tarsalis	Redding	23	CO2	8/15/2023	WNV
Shasta	SHAS 918	1605	Cx pipiens	Redding	50	CO2	8/15/2023	WNV
Shasta	SHAS 918	1606	Cx tarsalis	Redding	50	CO2	8/15/2023	WNV
Shasta	SHAS 93	1625	Cx tarsalis	Anderson	50	CO2	8/15/2023	WNV
Shasta	SHAS 93	1626	Cx tarsalis	Anderson	50	CO2	8/15/2023	WNV
Shasta	SHAS 93	1631	Cx pipiens	Anderson	50	CO2	8/15/2023	WNV
Solano	SOLA 100004	328	Cx tarsalis	Davis	50	CO2	8/17/2023	WNV
Solano	SOLA 100004	329	Cx tarsalis	Davis	40	CO2	8/17/2023	WNV
Solano	SOLA 28	336	Cx tarsalis	Dixon	10	CO2	8/17/2023	WNV
Solano	SOLA 38	335	Cx tarsalis	Dixon	43	CO2	8/17/2023	WNV
Stanislaus	EAST 2014	23192	Cx pipiens	Modesto	40	GRVD	8/9/2023	WNV
Stanislaus	EAST 2050	23179	Cx pipiens	Modesto	50	GRVD	8/8/2023	WNV
Stanislaus	EAST 2055	23190	Cx pipiens	Modesto	23	GRVD	8/9/2023	WNV
Stanislaus	TRLK 1202	1291	Cx tarsalis	Hughson	39	CO2	8/15/2023	WNV
Stanislaus	TRLK 1214	1261	Cx pipiens	Turlock	41	CO2	8/15/2023	WNV
Stanislaus	TRLK 1219	1292	Cx tarsalis	Modesto	50	CO2	8/15/2023	WNV
Stanislaus	TRLK 1309	1290	Cx pipiens	Hughson	10	CO2	8/15/2023	WNV
Stanislaus	TRLK 1905	1289	Cx pipiens	Denair	49	CO2	8/15/2023	WNV
Stanislaus	TRLK 432	1263	Cx pipiens	Turlock	50	CO2	8/15/2023	WNV
Stanislaus	TRLK 432	1264	Cx pipiens	Turlock	50	CO2	8/15/2023	WNV
Stanislaus	TRLK 432	1265	Cx pipiens	Turlock	50	CO2	8/15/2023	WNV
Stanislaus	TRLK 432	1266	Cx pipiens	Turlock	50	CO2	8/15/2023	WNV
Stanislaus	TRLK 432	1266	Cx pipiens	Turlock	50	CO2	8/15/2023	SLEV
Stanislaus	TRLK 432	1267	Cx pipiens	Turlock	50	CO2	8/15/2023	WNV
Stanislaus	TRLK 432	1268	Cx pipiens	Turlock	50	CO2	8/15/2023	WNV
Stanislaus	TRLK 432	1269	Cx pipiens	Turlock	50	CO2	8/15/2023	WNV
Stanislaus	TRLK 526	1274	Cx pipiens	Denair	50	CO2	8/15/2023	WNV
Stanislaus	TRLK 613	1282	Cx pipiens	Hickman	50	CO2	8/15/2023	WNV

## California Arbovirus Surveillance Bulletin #19

Week 33 Friday, August 18, 2023

Stanislaus	TRLK 613	1284	Cx pipiens	Hickman	50	CO2	8/15/2023	WNV
Stanislaus	TRLK 613	1287	Cx tarsalis	Hickman	50	CO2	8/15/2023	WNV
Sutter	SUYA 132	485	Cx tarsalis	Live Oak	49	CO2	8/17/2023	WNV
Sutter	SUYA 14	470	Cx tarsalis	Sutter	50	REST	8/14/2023	WNV
Sutter	SUYA 20	458	Cx tarsalis	Meridian	15	CO2	8/15/2023	WNV
Sutter	SUYA 24	475	Cx tarsalis	Yuba City	30	REST	8/14/2023	WNV
Sutter	SUYA 44	463	Cx tarsalis	Pleasant Grove	50	CO2	8/15/2023	WNV
Sutter	SUYA 63	488	Cx tarsalis	Live Oak	30	REST	8/14/2023	WNV
Sutter	SUYA 71	468	Cx tarsalis	Meridian	50	REST	8/15/2023	WNV
Sutter	SUYA 71	469	Cx tarsalis	Meridian	11	REST	8/15/2023	WNV
Tulare	DLNO 13	243	Cx quinquefasciatus	Richgrove	19	GRVD	8/8/2023	WNV
Tulare	DLNO 155	239	Cx quinquefasciatus	Earlimart	34	GRVD	8/8/2023	WNV
Tulare	DLNO 156	244	Cx quinquefasciatus	Earlimart	22	GRVD	8/8/2023	WNV
Tulare	DLNO 19	241	Cx quinquefasciatus	Ducor	50	GRVD	8/8/2023	WNV
Tulare	DLTA 632144	5128	Cx quinquefasciatus	Delft Colony	16	CO2	8/15/2023	WNV
Tulare	DLTA 632144	5129	Cx stigmatosoma	Delft Colony	48	CO2	8/15/2023	WNV
Tulare	DLTA 632144	5129	Cx stigmatosoma	Delft Colony	48	CO2	8/15/2023	SLEV
Tulare	DLTA 6407	5189	Cx quinquefasciatus	Dinuba	50	BGSENT	8/16/2023	WNV
Tulare	DLTA 6407	5209	Cx quinquefasciatus	Dinuba	50	GRVD	8/16/2023	WNV
Tulare	DLTA 6407	5210	Cx quinquefasciatus	Dinuba	50	GRVD	8/16/2023	WNV
Tulare	DLTA 6407	5211	Cx quinquefasciatus	Dinuba	50	GRVD	8/16/2023	WNV
Tulare	DLTA 6407	5212	Cx quinquefasciatus	Dinuba	44	GRVD	8/16/2023	WNV
Tulare	DLTA 6407	5212	Cx quinquefasciatus	Dinuba	44	GRVD	8/16/2023	SLEV
Tulare	DLTA 64071	5136	Cx quinquefasciatus	Dinuba	50	BGSENT	8/15/2023	WNV
Tulare	DLTA 64071	5137	Cx quinquefasciatus	Dinuba	50	BGSENT	8/15/2023	WNV
Tulare	DLTA 64071	5138	Cx quinquefasciatus	Dinuba	50	BGSENT	8/15/2023	WNV
Tulare	DLTA 6408	5163	Cx quinquefasciatus	Dinuba	46	BGSENT	8/15/2023	WNV
Tulare	DLTA 6408	5247	Cx quinquefasciatus	Dinuba	46	BGSENT	8/17/2023	WNV
Tulare	DLTA 6408	5248	Cx quinquefasciatus	Dinuba	10	BGSENT	8/17/2023	WNV
Tulare	DLTA 6417	5118	Cx quinquefasciatus	Dinuba	28	GRVD	8/15/2023	WNV
Tulare	DLTA 6417	5243	Cx quinquefasciatus	Dinuba	18	BGSENT	8/17/2023	WNV
Tulare	DLTA 65201	5119	Cx quinquefasciatus	Cutler	11	GRVD	8/15/2023	WNV
Tulare	DLTA 65201	5119	Cx quinquefasciatus	Cutler	11	GRVD	8/15/2023	SLEV
Tulare	DLTA 653232	5264	Cx stigmatosoma	Yettem	28	CO2	8/17/2023	SLEV
Tulare	DLTA 75011	5280	Cx quinquefasciatus	Seville	42	CO2	8/17/2023	WNV
Tulare	DLTA 75024	5267	Cx quinquefasciatus	Seville	21	CO2	8/17/2023	WNV
Tulare	DLTA 75111	5270	Cx quinquefasciatus	Seville	50	CO2	8/17/2023	WNV
Tulare	DLTA 75111	5271	Cx quinquefasciatus	Seville	50	CO2	8/17/2023	WNV
Tulare	DLTA 751732	5268	Cx quinquefasciatus	Yettem	47	CO2	8/17/2023	WNV
Tulare	DLTA 8324	5093	Cx quinquefasciatus	Goshen	48	BGSENT	8/11/2023	WNV
Tulare	DLTA 8324	5094	Cx tarsalis	Goshen	26	BGSENT	8/11/2023	WNV
Tulare	DLTA 8324	5094	Cx tarsalis	Goshen	26	BGSENT	8/11/2023	SLEV
Tulare	DLTA 8324	5095	Cx quinquefasciatus	Goshen	10	BGSENT	8/11/2023	WNV
Tulare	DLTA 8413	5167	Cx quinquefasciatus	Visalia	50	BGSENT	8/15/2023	WNV
Tulare	DLTA 8413	5168	Cx quinquefasciatus	Visalia	50	BGSENT	8/15/2023	WNV
Tulare	DLTA 8413	5169	Cx quinquefasciatus	Visalia	50	BGSENT	8/15/2023	WNV
Tulare	DLTA 8413	5170	Cx quinquefasciatus	Visalia	34	BGSENT	8/15/2023	WNV
Tulare	DLTA 8413	5171	Cx tarsalis	Visalia	10	BGSENT	8/15/2023	WNV
Tulare	DLTA 8413	5179	Cx quinquefasciatus	Visalia	19	GRVD	8/16/2023	WNV
Tulare	DLTA 8413	5207	Cx quinquefasciatus	Visalia	26	BGSENT	8/16/2023	SLEV
Tulare	DLTA 841543	5080	Cx quinquefasciatus	Visalia	50	CO2	8/11/2023	WNV
Tulare	DLTA 841631	5218	Cx quinquefasciatus	Visalia	50	CO2	8/16/2023	WNV
Tulare	DLTA 841631	5219	Cx quinquefasciatus	Visalia	50	CO2	8/16/2023	SLEV
Tulare	DLTA 841631	5223	Cx quinquefasciatus	Visalia	31	CO2	8/16/2023	WNV
Tulare	DLTA 84191	5116	Cx quinquefasciatus	Visalia	24	GRVD	8/15/2023	WNV
Tulare	DLTA 84194	5088	Cx quinquefasciatus	Visalia	14	GRVD	8/11/2023	WNV
Tulare	DLTA 8422	5156	Cx quinquefasciatus	Goshen	50	BGSENT	8/15/2023	WNV
Tulare	DLTA 8422	5159	Cx quinquefasciatus	Goshen	50	BGSENT	8/15/2023	WNV
Tulare	DLTA 8422	5160	Cx quinquefasciatus	Goshen	50	BGSENT	8/15/2023	WNV
Tulare	DLTA 8422	5161	Cx quinquefasciatus	Goshen	43	BGSENT	8/15/2023	WNV
Tulare	DLTA 8422	5197	Cx quinquefasciatus	Goshen	50	BGSENT	8/16/2023	WNV
Tulare	DLTA 8422	5200	Cx quinquefasciatus	Goshen	50	BGSENT	8/16/2023	WNV
Tulare	DLTA 8422	5201	Cx quinquefasciatus	Goshen	50	BGSENT	8/16/2023	WNV
Tulare	DLTA 84224	5125	Cx quinquefasciatus	Visalia	50	BGSENT	8/15/2023	SLEV
Tulare	DLTA 8423	5099	Cx quinquefasciatus	Visalia	23	GRVD	8/11/2023	WNV
Tulare	DLTA 84231	5147	Cx quinquefasciatus	Visalia	50	BGSENT	8/15/2023	WNV
Tulare	DLTA 8424	5208	Cx quinquefasciatus	Visalia	35	BGSENT	8/16/2023	WNV
Tulare	DLTA 84242	5182	Cx quinquefasciatus	Visalia	13	BGSENT	8/16/2023	WNV
Tulare	DLTA 8426	5166	Cx quinquefasciatus	Visalia	13	BGSENT	8/15/2023	WNV

## California Arbovirus Surveillance Bulletin #19

Week 33 Friday, August 18, 2023

Tulare	DLTA 8427	5180	Cx quinquefasciatus	Visalia	15	GRVD	8/16/2023	WNV
Tulare	DLTA 8436	5096	Cx quinquefasciatus	Visalia	17	GRVD	8/11/2023	SLEV
Tulare	DLTA 8507	5229	Cx quinquefasciatus	Visalia	12	GRVD	8/16/2023	SLEV
Tulare	DLTA 8528	5070	Cx quinquefasciatus	Visalia	10	GRVD	8/11/2023	WNV
Tulare	DLTA 8528	5070	Cx quinquefasciatus	Visalia	10	GRVD	8/11/2023	SLEV
Tulare	DLTA 9401	5239	Cx quinquefasciatus	Visalia	13	GRVD	8/17/2023	WNV
Tulare	DLTA 9402	5111	Cx quinquefasciatus	Visalia	13	BGSENT	8/15/2023	WNV
Tulare	DLTA 94034	5075	Cx quinquefasciatus	Visalia	42	BGSENT	8/11/2023	WNV
Tulare	DLTA 9411	5237	Cx quinquefasciatus	Visalia	13	BGSENT	8/17/2023	WNV
Tulare	DLTA 9506	5176	Cx quinquefasciatus	Visalia	17	GRVD	8/16/2023	WNV
Tulare	TLRE 131	129	Cx quinquefasciatus	Tulare	25	GRVD	8/15/2023	WNV
Tulare	TLRE 131	131	Cx quinquefasciatus	Tulare	45	GRVD	8/17/2023	WNV
Tulare	TLRE 152	111	Cx quinquefasciatus	Tulare	18	GRVD	8/8/2023	WNV
Tulare	TLRE 163	119	Cx quinquefasciatus	Tulare	23	GRVD	8/9/2023	WNV
Tulare	TLRE 165	116	Cx quinquefasciatus	Tulare	18	GRVD	8/9/2023	WNV
Tulare	TLRE 169	112	Cx quinquefasciatus	Poplar-Cotton Center	28	GRVD	8/8/2023	WNV
Tulare	TLRE 207	127	Cx quinquefasciatus	Tulare	29	GRVD	8/10/2023	WNV
Yolo	SAYO 123005	4846	Cx pipiens	Madison	8	GRVD	8/11/2023	WNV
Yolo	SAYO 123006	4843	Cx tarsalis	Esparto	3	CO2	8/11/2023	WNV
Yolo	SAYO 124007	4833	Cx tarsalis	Woodland	50	CO2	8/11/2023	WNV
Yolo	SAYO 124007	5099	Cx tarsalis	Woodland	50	CO2	8/15/2023	WNV
Yolo	SAYO 125012	5047	Cx tarsalis	Woodland	50	CO2	8/15/2023	WNV
Yolo	SAYO 125012	5051	Cx tarsalis	Woodland	7	GRVD	8/15/2023	WNV
Yolo	SAYO 125018	4817	Cx tarsalis	Woodland	12	GRVD	8/11/2023	WNV
Yolo	SAYO 125023	5139	Cx tarsalis	Woodland	50	CO2	8/15/2023	WNV
Yolo	SAYO 125023	5140	Cx tarsalis	Woodland	50	CO2	8/15/2023	WNV
Yolo	SAYO 125030	4815	Cx pipiens	Woodland	5	GRVD	8/11/2023	WNV
Yolo	SAYO 125030	5040	Cx tarsalis	Woodland	1	GRVD	8/15/2023	WNV
Yolo	SAYO 134006	5170	Cx tarsalis	Woodland	50	CO2	8/16/2023	WNV
Yolo	SAYO 134006	5171	Cx tarsalis	Woodland	50	CO2	8/16/2023	WNV
Yolo	SAYO 134006	5172	Cx tarsalis	Woodland	50	CO2	8/16/2023	WNV
Yolo	SAYO 134006	5173	Cx tarsalis	Woodland	50	CO2	8/16/2023	WNV
Yolo	SAYO 135005	4819	Cx tarsalis	Woodland	22	CO2	8/11/2023	WNV
Yolo	SAYO 135008	5109	Cx tarsalis	Woodland	50	CO2	8/15/2023	WNV
Yolo	SAYO 135008	5110	Cx tarsalis	Woodland	50	CO2	8/15/2023	WNV
Yolo	SAYO 135012	5132	Cx tarsalis	Woodland	50	CO2	8/15/2023	WNV
Yolo	SAYO 135012	5135	Cx tarsalis	Woodland	50	CO2	8/15/2023	WNV
Yolo	SAYO 135012	5136	Cx tarsalis	Woodland	50	CO2	8/15/2023	WNV
Yolo	SAYO 135018	5074	Cx tarsalis	Woodland	50	CO2	8/15/2023	WNV
Yolo	SAYO 135020	5078	Cx pipiens	Woodland	6	GRVD	8/15/2023	WNV
Yolo	SAYO 136008	5117	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 136008	5119	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 137007	5155	Cx pipiens	West Sacramento	15	GRVD	8/15/2023	WNV
Yolo	SAYO 143008	4829	Cx tarsalis	Winters	7	CO2	8/11/2023	WNV
Yolo	SAYO 145005	4804	Cx tarsalis	Davis	50	CO2	8/11/2023	WNV
Yolo	SAYO 145005	4805	Cx tarsalis	Davis	35	CO2	8/11/2023	WNV
Yolo	SAYO 145005	5001	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 145005	5002	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 145005	5003	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 145005	5005	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 145009	4988	Cx tarsalis	Davis	27	CO2	8/15/2023	WNV
Yolo	SAYO 145016	4994	Cx pipiens	Davis	2	CO2	8/15/2023	WNV
Yolo	SAYO 145016	4997	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 145024	5024	Cx tarsalis	Davis	50	GRVD	8/15/2023	WNV
Yolo	SAYO 145029	5105	Cx tarsalis	Davis	14	CO2	8/15/2023	WNV
Yolo	SAYO 146	4823	Cx tarsalis	Woodland	50	CO2	8/11/2023	WNV
Yolo	SAYO 146	4825	Cx pipiens	Woodland	3	GRVD	8/11/2023	WNV
Yolo	SAYO 146002	4978	Cx pipiens	Davis	7	CO2	8/15/2023	WNV
Yolo	SAYO 146002	4979	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 146002	4980	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 146002	4982	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 146002	4983	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 146010	5092	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 146010	5093	Cx tarsalis	Davis	37	CO2	8/15/2023	WNV
Yolo	SAYO 146012	4798	Cx tarsalis	Davis	50	CO2	8/11/2023	WNV
Yolo	SAYO 146012	4799	Cx tarsalis	Davis	21	CO2	8/11/2023	WNV
Yolo	SAYO 146017	5014	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 146017	5015	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 146017	5017	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV

## California Arbovirus Surveillance Bulletin #19

Week 33 Friday, August 18, 2023

Yolo	SAYO 146017	5018	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 146017	5019	Cx pipiens	Davis	3	GRVD	8/15/2023	WNV
Yolo	SAYO 146017	5020	Cx tarsalis	Davis	28	GRVD	8/15/2023	WNV
Yolo	SAYO 337415	5054	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 337415	5056	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 337415	5057	Cx tarsalis	Davis	50	CO2	8/15/2023	WNV
Yolo	SAYO 412127	5164	Cx pipiens	West Sacramento	4	GRVD	8/15/2023	WNV
Yuba	SUYA 10	476	Cx tarsalis	Olivehurst	43	CO2	8/16/2023	WNV
Yuba	SUYA 108	473	Cx tarsalis	Plumas Lake	10	CO2	8/16/2023	WNV
Yuba	SUYA 40	472	Cx tarsalis	Linda	17	CO2	8/16/2023	WNV
Yuba	SUYA 55	478	Cx tarsalis	Linda	50	CO2	8/16/2023	WNV

### Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03
Solano	SOLA 148	Fairfield	8/14/2023	WNV	2754	2755	2759
Solano	SOLA 15	Winters	8/14/2023	WNV	2748	2750	
Merced	MERC 2	South Dos Palos	8/11/2023	WNV	2615	2616	
Merced	MERC 1302	Los Banos	8/11/2023	WNV	2634		
Colusa	CLSA 0	Colusa	8/8/2023	WNV	1856		

## California Arbovirus Surveillance Bulletin #19

Week 33 Friday, August 18, 2023

### 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](mailto:Hannah.romo@cdph.ca.gov)