

California Arbovirus Surveillance Bulletin #18

Week 32 Friday, August 11, 2023



WEEKLY UPDATE

Humans

West Nile virus

A total of 6 human cases of West Nile virus (WNV) were reported this week from 5 counties: Butte (2), Madera (1), Merced (1), Riverside (1), and San Bernardino (1). **These are the first human cases of WNV reported from Butte, Madera, and Riverside counties this year.** In 2023, a total of 14 human cases of WNV have been reported from 8 counties: Butte (2), Kern (1), Madera (1), Merced (2), Riverside (1), San Bernardino (3), San Joaquin (1), and Tulare (3). Of the 14 cases, 10 (71%) had neuroinvasive disease. The median age of the case-patients was 50 years and 13 (93%) of the case-patients were male. The dates of symptom onset ranged from June 30 to July 30. In addition to the 14 WNV human cases, 2 asymptomatic WNV-positive blood donors have been reported from 2 counties: Butte (1), and San Bernardino (1). At this time last year, 12 human cases of WNV had been reported from 8 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 55 new WNV positive dead birds were reported this week from 13 counties: Alameda (4), Contra Costa (2), Los Angeles (1), Placer (4), Riverside (6), Sacramento (19), San Joaquin (2), Santa Clara (3), Solano (2), Sonoma (1), Stanislaus (1), Sutter (2), and Yolo (8). In 2023, 236 WNV positive dead birds have been reported from 20 counties. At this time last year, 68 WNV positive dead birds had been reported from 13 counties.

Mosquito Pools

West Nile virus

A total of 416 new WNV positive mosquito pools were identified from 22 counties: Butte (18), Contra Costa (2), Fresno (22), Imperial (2), Kern (15), Los Angeles (35), Madera (22), Merced (2), Orange (11), Placer (19), Riverside (2), Sacramento (37), San Bernardino (21), San Joaquin (70), Santa Clara (4), Shasta (21), Solano (1), Stanislaus (34), Sutter (6), Tulare (42), Yolo (29), and Yuba (1). In 2023, 1,988 WNV positive mosquito pools have been reported from 26 counties. At this time last year, 1,263 WNV positive mosquito pools had been reported from 23 counties.

St. Louis encephalitis virus

A total of 20 new SLEV positive mosquito pools were identified from 5 counties: Fresno (7), Imperial (1), Kern (2), Stanislaus (2), and Tulare (8). In 2023, 182 SLEV positive mosquito pools have been reported from 9 counties. At this time last year, 15 SLEV positive pools had been reported from 4 counties.

Sentinel Chickens

A total of 33 WNV positive chickens were reported this week from 4 counties: Butte (18), Sutter (6), Tulare (6), and Yuba (3). **These are the first WNV positive sentinel chickens reported from Yuba County this year.** In 2023, 60 WNV positive chickens have been reported from 5 counties. At this time last year, 17 WNV positive chickens had been reported from 5 counties.

California Arbovirus Surveillance Bulletin #18

Week 32 Friday, August 11, 2023

2022 & 2023 YTD West Nile Virus Comparisons		
	2022	2023
Total No. Dead Bird Reports	3,238	3,866
No. Positive Counties	24	31
No. Human Cases	12	14
No. Positive Dead Birds / No. Tested	68 / 848	236 / 1,007
No. Positive Mosquito Pools / No. Tested	1,263 / 22,432	1,998 / 30,767
No. Seroconversions / No. Tested	17 / 2,984	60 / 2,277

YTD WNV Activity by Element and County, 2023					
County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			7	4	
Butte	2			42	22
Colusa			2		
Contra Costa			5	5	
El Dorado			1		
Fresno		1		70	
Imperial				3	
Kern	1	1		52	
Kings		1		47	
Lake			1	7	
Los Angeles			12	141	
Madera	1			65	
Merced	2			13	19
Napa				2	
Orange				12	
Placer			20	127	
Riverside	1		16	26	
Sacramento			101	188	
San Bernardino	3		3	63	
San Joaquin	1		13	337	
San Mateo			1		
Santa Clara			18	5	
Shasta				67	
Solano			4	13	
Sonoma			2		
Stanislaus			2	136	
Sutter			5	48	8
Tulare	3		5	322	8
Ventura			3		
Yolo			15	186	
Yuba				17	3
Totals	14	3	236	1,998	60

*Asymptomatic human infections are not included.

California Arbovirus Surveillance Bulletin #18

Week 32 Friday, August 11, 2023

YTD SLEV Activity by Element and County, 2023			
County	Humans	Mosquito Pools	Sentinel Chickens
Fresno		28	
Imperial		2	
Kern	1	24	
Kings		7	
Madera		1	
Riverside		99	
San Joaquin		1	
Stanislaus		3	
Tulare		17	
Totals	1	182	0

TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	6	0	0
	YTD	14	1	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Dead Birds	Week	55 / 94					
	YTD	236 / 1,007					
Chicken Sera	Week	33 / 203	0 / 203	0 / 203			
	YTD	60 / 2,277	0 / 2,277	0 / 2,277			
Mosquito Pools	Week	416 / 2,049	20 / 1,855	0 / 1,855	0 / 0	0 / 0	0 / 0
	YTD	1,998 / 30,767	182 / 27,737	0 / 30,043	0 / 303	0 / 303	0 / 303

California Arbovirus Surveillance Bulletin #18

Week 32 Friday, August 11, 2023

NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Alameda	94501	American Crow	8/9/2023	WNV
Alameda	Alameda Co MAD	Fremont	94538	American Crow	8/8/2023	WNV
Alameda	Alameda Co MAD	Fremont	94538	American Crow	8/10/2023	WNV
Alameda	Alameda Co MAD	Livermore	94551	American Crow	8/10/2023	WNV
Contra Costa	Contra Costa MVCD	Concord	94519	California Scrub-Jay	8/7/2023	WNV
Contra Costa	Contra Costa MVCD	San Ramon	94582	American Crow	8/3/2023	WNV
Los Angeles	Greater LA Co VCD - SFS	Lakewood	90712	American Crow	8/6/2023	WNV
Placer	Placer MVCD	Newcastle	95658	California Scrub-Jay	8/7/2023	WNV
Placer	Placer MVCD	Roseville	95747	House Finch	8/4/2023	WNV
Placer	Placer MVCD	Roseville	95747	House Finch	8/9/2023	WNV
Placer	Placer MVCD	Roseville	95747	House Finch	8/9/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/31/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/31/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/31/2023	WNV
Riverside	Northwest Mosquito VCD	Mira Loma	91752	American Crow	7/30/2023	WNV
Riverside	Northwest Mosquito VCD	Riverside	92506	American Crow	7/30/2023	WNV
Riverside	Northwest Mosquito VCD	Riverside	92508	American Crow	7/31/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	California Scrub-Jay	8/5/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	8/2/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	California Scrub-Jay	8/7/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	California Scrub-Jay	8/4/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	Mourning Dove	8/7/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	White-breasted Nuthatch	8/3/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	American Crow	8/5/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	8/3/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95828	American Crow	8/4/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	8/6/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	8/6/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	American Crow	8/8/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	California Scrub-Jay	8/2/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	California Scrub-Jay	8/4/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	California Scrub-Jay	8/6/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	California Scrub-Jay	8/7/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95834	Mourning Dove	8/3/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95829	Mourning Dove	8/7/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Oak Titmouse	8/9/2023	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95204	Unknown - Crow or Raven	8/3/2023	WNV
San Joaquin	San Joaquin Co MVCD	Tracy	95377	Unknown - Crow or Raven	8/4/2023	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	8/8/2023	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95110	American Crow	8/8/2023	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95148	California Scrub-Jay	8/2/2023	WNV
Solano	Solano Co MAD	Davis	95618	American Crow	8/9/2023	WNV
Solano	Solano Co MAD	Davis	95618	American Crow	8/9/2023	WNV
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95401	American Crow	8/4/2023	WNV
Stanislaus	East Side MAD	Oakdale	95361	California Scrub-Jay	8/7/2023	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95991	American Crow	8/4/2023	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95993	California Scrub-Jay	8/4/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/6/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/7/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	8/8/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Barn Swallow	8/7/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Mourning Dove	8/8/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Northern Mockingbird	8/7/2023	WNV
Yolo	Sacramento-Yolo MVCD	West Sacramento	95691	California Scrub-Jay	8/8/2023	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	Pheasant	8/1/2023	WNV

California Arbovirus Surveillance Bulletin #18

Week 32 Friday, August 11, 2023

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus
Butte	BUCO 113	373	Cx. tarsalis	Gridley	50	CO2	8/1/2023	WNV
Butte	BUCO 113	375	Cx. tarsalis	Gridley	50	CO2	8/1/2023	WNV
Butte	BUCO 116	378	Cx. tarsalis	Nelson	50	CO2	8/1/2023	WNV
Butte	BUCO 123	365	Cx. tarsalis	Oroville	50	CO2	8/1/2023	WNV
Butte	BUCO 123	366	Cx. tarsalis	Oroville	50	CO2	8/1/2023	WNV
Butte	BUCO 123	368	Cx. tarsalis	Oroville	50	CO2	8/1/2023	WNV
Butte	BUCO 126	361	Cx. tarsalis	Chico	50	CO2	7/31/2023	WNV
Butte	BUCO 126	363	Cx. tarsalis	Chico	50	CO2	7/31/2023	WNV
Butte	BUCO 141	350	Cx. tarsalis	Oroville	50	CO2	7/31/2023	WNV
Butte	BUCO 141	351	Cx. tarsalis	Oroville	50	CO2	7/31/2023	WNV
Butte	BUCO 141	353	Cx. tarsalis	Oroville	50	CO2	7/31/2023	WNV
Butte	BUCO 37	355	Cx. tarsalis	Honcut	50	CO2	7/31/2023	WNV
Butte	BUCO 68	381	Cx. tarsalis	Gridley	50	CO2	8/2/2023	WNV
Butte	BUCO 68	382	Cx. tarsalis	Gridley	50	CO2	8/2/2023	WNV
Butte	BUCO 68	383	Cx. tarsalis	Gridley	50	CO2	8/2/2023	WNV
Butte	BUCO 68	384	Cx. tarsalis	Gridley	50	CO2	8/2/2023	WNV
Butte	BUCO 84	370	Cx. tarsalis	Nelson	50	CO2	8/1/2023	WNV
Butte	BUCO 84	372	Cx. tarsalis	Nelson	50	CO2	8/1/2023	WNV
Contra Costa	CNTR 3502	855	Cx. tarsalis	Pittsburg	49	CO2	8/8/2023	WNV
Contra Costa	CNTR 7311	848	Cx. tarsalis	Oakley	49	CO2	8/8/2023	WNV
Fresno	CNSL 1930	214	Cx. quinquefasciatus	Clovis	37	GRVD	8/4/2023	WNV
Fresno	CNSL 3241	669	Cx. quinquefasciatus	Reedley	18	GRVD	8/3/2023	WNV
Fresno	CNSL 3430	212	Cx. stigmatosoma	Dinuba	50	CO2	8/3/2023	WNV
Fresno	CNSL 6147	210	Cx. quinquefasciatus	Laton	50	BGSENT	8/3/2023	SLEV
Fresno	CNSL 6405	209	Cx. tarsalis	Laton	40	CO2	8/3/2023	WNV
Fresno	CNSL 8222	204	Cx. quinquefasciatus	Fresno	50	GRVD	8/2/2023	SLEV
Fresno	FRNO 10	711	Cx. tarsalis	Fresno	41	CO2	8/3/2023	WNV
Fresno	FRNO 111	697	Cx. quinquefasciatus	Fresno	30	GRVD	8/3/2023	SLEV
Fresno	FRNO 123	705	Cx. quinquefasciatus	Fresno	14	GRVD	8/3/2023	SLEV
Fresno	FRNO 207	695	Cx. quinquefasciatus	Fresno	50	GRVD	8/3/2023	WNV
Fresno	FRNO 216	687	Cx. quinquefasciatus	Fresno	32	GRVD	8/1/2023	SLEV
Fresno	FRNO 261	710	Cx. tarsalis	Fresno	17	CO2	8/3/2023	WNV
Fresno	FRNO 27	707	Cx. quinquefasciatus	Fresno	50	GRVD	8/3/2023	WNV
Fresno	FRNO 31	704	Cx. quinquefasciatus	Fresno	24	GRVD	8/3/2023	WNV
Fresno	FRWS 1202	297	Cx. tarsalis	Dos Palos	50	CO2	8/8/2023	WNV
Fresno	FRWS 200003	304	Cx. tarsalis	Dos Palos	50	CO2	8/8/2023	WNV
Fresno	FRWS 200003	305	Cx. tarsalis	Dos Palos	50	CO2	8/8/2023	WNV
Fresno	FRWS 200003	306	Cx. tarsalis	Dos Palos	50	CO2	8/8/2023	WNV
Fresno	FRWS 2105	307	Cx. tarsalis	Dos Palos	32	CO2	8/8/2023	WNV
Fresno	FRWS 300001	295	Cx. tarsalis	Firebaugh	50	BGSENT	8/3/2023	WNV
Fresno	FRWS 300011	303	Cx. tarsalis	Firebaugh	45	CO2	8/8/2023	WNV
Fresno	FRWS 300031	296	Cx. tarsalis	Firebaugh	50	BGSENT	8/4/2023	WNV
Fresno	FRWS 300031	300	Cx. tarsalis	Firebaugh	29	CO2	8/8/2023	WNV
Fresno	FRWS 4102	312	Cx. tarsalis	Kerman	25	CO2	8/8/2023	WNV
Fresno	FRWS 4110	313	Cx. tarsalis	Mendota	15	CO2	8/8/2023	WNV
Fresno	FRWS 5101	314	Cx. tarsalis	Mendota	50	CO2	8/8/2023	WNV
Fresno	FRWS 5101	314	Cx. tarsalis	Mendota	50	CO2	8/8/2023	SLEV
Fresno	FRWS 5110	309	Cx. tarsalis	Tranquillity	26	CO2	8/8/2023	WNV
Fresno	FRWS 5110	309	Cx. tarsalis	Tranquillity	26	CO2	8/8/2023	SLEV
Imperial	IMPR 13	110	Cx. quinquefasciatus	Calipatria	50	CO2	8/8/2023	WNV
Imperial	IMPR 13	112	Cx. tarsalis	Calipatria	12	CO2	8/8/2023	WNV
Kern	DLNO 123	232	Cx. tarsalis	McFarland	50	CO2	8/2/2023	WNV
Kern	DLNO 73	230	Cx. tarsalis	McFarland	50	CO2	8/2/2023	WNV
Kern	KERN 110	1131	Cx. quinquefasciatus	Bakersfield	50	CO2	8/1/2023	WNV
Kern	KERN 1104	1126	Cx. tarsalis	Wasco	50	CO2	8/1/2023	WNV
Kern	KERN 1137	1134	Cx. tarsalis	Bakersfield	39	CO2	8/2/2023	WNV
Kern	KERN 156	1121	Cx. tarsalis	Butttonwillow	25	CO2	8/1/2023	WNV
Kern	KERN 3023	1122	Cx. tarsalis	Wasco	50	CO2	8/1/2023	WNV

California Arbovirus Surveillance Bulletin #18

Week 32 Friday, August 11, 2023

Kern	KERN 3026	1129	Cx. quinquefasciatus	Arvin	43	CO2	8/1/2023	WNV
Kern	KERN 3029	1137	Cx. tarsalis	Buttonwillow	50	CO2	8/3/2023	WNV
Kern	KERN 3039	1135	Cx. tarsalis	Bakersfield	50	CO2	8/3/2023	WNV
Kern	KERN 3041	1125	Cx. tarsalis	Bakersfield	50	CO2	8/1/2023	WNV
Kern	KERN 33	1130	Cx. quinquefasciatus	Arvin	50	CO2	8/1/2023	WNV
Kern	KERN 91	1132	Cx. tarsalis	Lost Hills	50	CO2	8/1/2023	WNV
Kern	KERN 91	1132	Cx tarsalis	Lost Hills	50	CO2	8/1/2023	SLEV
Kern	WEST 6306	52	Cx tarsalis	Buttonwillow	10	CO2	8/9/2023	SLEV
Kern	WEST50	50	Cx. tarsalis	Buttonwillow	30	CO2	8/9/2023	WNV
Kern	WEST54	54	Cx. tarsalis	Bakersfield	10	CO2	8/9/2023	WNV
Los Angeles	GRLA 2093	527	Cx. quinquefasciatus	South Gate	50	GRVD	8/3/2023	WNV
Los Angeles	GRLA 2270	524	Cx. quinquefasciatus	Bellflower	34	GRVD	8/3/2023	WNV
Los Angeles	GRLA 2419	5535	Cx. quinquefasciatus	Panorama City	50	GRVD	8/1/2023	WNV
Los Angeles	GRLA 2580	5530	Cx. quinquefasciatus	Sherman Oaks	50	GRVD	8/1/2023	WNV
Los Angeles	GRLA 2889	516	Cx. quinquefasciatus	Lakewood	50	GRVD	8/2/2023	WNV
Los Angeles	GRLA 2957	514	Cx. quinquefasciatus	Hawaiian Gardens	50	GRVD	8/2/2023	WNV
Los Angeles	GRLA 3051	515	Cx. quinquefasciatus	Signal Hill	50	GRVD	8/2/2023	WNV
Los Angeles	GRLA 3058	526	Cx. quinquefasciatus	Lynwood	50	GRVD	8/3/2023	WNV
Los Angeles	GRLA 3059	525	Cx. quinquefasciatus	Paramount	17	GRVD	8/3/2023	WNV
Los Angeles	LACW 1054	498	Cx. quinquefasciatus	Inglewood	50	CO2	8/3/2023	WNV
Los Angeles	LACW 1054	499	Cx. quinquefasciatus	Inglewood	50	CO2	8/3/2023	WNV
Los Angeles	SGVA424	424	Cx. quinquefasciatus	Azusa	50	GRVD	8/8/2023	WNV
Los Angeles	SGVA426	426	Cx. quinquefasciatus	Walnut	50	GRVD	8/8/2023	WNV
Los Angeles	SGVA427	427	Cx. quinquefasciatus	Azusa	50	GRVD	8/8/2023	WNV
Los Angeles	SGVA430	430	Cx. quinquefasciatus	Glendora	50	GRVD	8/8/2023	WNV
Los Angeles	SGVA431	431	Cx. quinquefasciatus	Irwindale	48	GRVD	8/8/2023	WNV
Los Angeles	SGVA432	432	Cx. quinquefasciatus	Glendora	50	GRVD	8/8/2023	WNV
Los Angeles	SGVA433	433	Cx. quinquefasciatus	Irwindale	50	GRVD	8/8/2023	WNV
Los Angeles	SGVA434	434	Cx. quinquefasciatus	West Covina	50	GRVD	8/8/2023	WNV
Los Angeles	SGVA436	436	Cx. quinquefasciatus	Pomona	50	GRVD	8/8/2023	WNV
Los Angeles	SGVA438	438	Cx. quinquefasciatus	Glendora	50	GRVD	8/8/2023	WNV
Los Angeles	SGVA439	439	Cx. quinquefasciatus	Covina	50	GRVD	8/8/2023	WNV
Los Angeles	SGVA446	446	Cx. quinquefasciatus	San Dimas	50	GRVD	8/8/2023	WNV
Los Angeles	SGVA452	452	Cx. quinquefasciatus	Covina	22	GRVD	8/8/2023	WNV
Los Angeles	SGVA453	453	Cx. quinquefasciatus	Covina	50	GRVD	8/8/2023	WNV
Los Angeles	SGVA454	454	Cx. quinquefasciatus	West Covina	35	GRVD	8/10/2023	WNV
Los Angeles	SGVA455	455	Cx. quinquefasciatus	West Covina	34	GRVD	8/10/2023	WNV
Los Angeles	SGVA456	456	Cx. quinquefasciatus	West Covina	49	GRVD	8/10/2023	WNV
Los Angeles	SGVA457	457	Cx. quinquefasciatus	Covina	39	GRVD	8/10/2023	WNV
Los Angeles	SGVA458	458	Cx. quinquefasciatus	Covina	50	GRVD	8/10/2023	WNV
Los Angeles	SGVA459	459	Cx. quinquefasciatus	Pasadena	50	GRVD	8/8/2023	WNV
Los Angeles	SGVA462	462	Cx. quinquefasciatus	west covina	47	GRVD	8/10/2023	WNV
Los Angeles	SGVA463	463	Cx. quinquefasciatus	Covina	29	GRVD	8/10/2023	WNV
Los Angeles	SGVA464	464	Cx. quinquefasciatus	west covina	15	GRVD	8/10/2023	WNV
Los Angeles	SGVA465	465	Cx. quinquefasciatus	Covina	27	GRVD	8/10/2023	WNV
Madera	MADR 1057	213	Cx. tarsalis	Chowchilla	43	CO2	8/1/2023	WNV
Madera	MADR 12	204	Cx. tarsalis	Madera	50	CO2	7/28/2023	WNV
Madera	MADR 189	221	Cx. tarsalis	Firebaugh	50	CO2	8/1/2023	WNV
Madera	MADR 204	195	Cx. tarsalis	Madera	50	CO2	7/28/2023	WNV
Madera	MADR 204	196	Cx. quinquefasciatus	Madera	50	CO2	7/28/2023	WNV
Madera	MADR 299	222	Cx. quinquefasciatus	CHOWCHILLA	50	CO2	8/1/2023	WNV
Madera	MADR 300	208	Cx. quinquefasciatus	Chowchilla	50	CO2	8/1/2023	WNV
Madera	MADR 309	239	Cx. quinquefasciatus	Madera	50	CO2	8/3/2023	WNV
Madera	MADR 309	240	Cx. tarsalis	Madera	50	CO2	8/3/2023	WNV
Madera	MADR 3334	234	Cx. tarsalis	Madera	50	CO2	8/2/2023	WNV
Madera	MADR 581	241	Cx. quinquefasciatus	Madera	50	CO2	8/3/2023	WNV
Madera	MADR 581	242	Cx. tarsalis	Madera	50	CO2	8/3/2023	WNV
Madera	MADR 581	244	Cx. tarsalis	Madera	50	CO2	8/3/2023	WNV
Madera	MADR 688	237	Cx. quinquefasciatus	Madera	14	CO2	8/3/2023	WNV
Madera	MADR 690	235	Cx. quinquefasciatus	Madera	37	CO2	8/3/2023	WNV
Madera	MADR 704	202	Cx. tarsalis	MADERA	50	CO2	7/28/2023	WNV
Madera	MADR 704	245	Cx. quinquefasciatus	MADERA	50	CO2	8/3/2023	WNV

California Arbovirus Surveillance Bulletin #18

Week 32 Friday, August 11, 2023

Madera	MADR 704	246	Cx. tarsalis	MADERA	50	CO2	8/3/2023	WNV
Madera	MADR 714	248	Cx. quinquefasciatus	MADERA	12	BGSENT	8/3/2023	WNV
Madera	MADR 716	255	Cx. tarsalis	Madera	8	CO2	8/3/2023	WNV
Madera	MADR 896	215	Cx. tarsalis	Mendota	50	CO2	8/1/2023	WNV
Madera	MADR 967	229	Cx. quinquefasciatus	Madera	50	CO2	8/2/2023	WNV
Merced	MADR 707	218	Cx. tarsalis	Merced	46	CO2	8/2/2023	WNV
Merced	MERC 858252	631	Cx. tarsalis	Dos Palos	16	BGSENT	8/3/2023	WNV
Orange	ORCO2700	2700	Cx. quinquefasciatus	Santa Ana	33	GRVD	8/3/2023	WNV
Orange	ORCO2701	2701	Cx. quinquefasciatus	Santa Ana	50	CO2	8/3/2023	WNV
Orange	ORCO2716	2716	Cx. quinquefasciatus	Santa Ana	52	CO2	8/3/2023	WNV
Orange	ORCO2720	2720	Cx. quinquefasciatus	Santa Ana	50	CO2	8/3/2023	WNV
Orange	ORCO2766	2766	Cx. quinquefasciatus	Santa Ana	41	GRVD	8/8/2023	WNV
Orange	ORCO2781	2781	Cx. quinquefasciatus	Fullerton	28	GRVD	8/8/2023	WNV
Orange	ORCO2814	2814	Cx. quinquefasciatus	Santa Ana	46	GRVD	8/8/2023	WNV
Orange	ORCO2837	2837	Cx. quinquefasciatus	La Habra	34	CO2	8/8/2023	WNV
Orange	ORCO2840	2840	Cx. quinquefasciatus	Westminster	27	GRVD	8/9/2023	WNV
Orange	ORCO29	2553	Cx. quinquefasciatus	Santa Ana	50	CO2	7/27/2023	WNV
Orange	ORCO325	2600	Cx. quinquefasciatus	La Habra	38	BGSENT	8/1/2023	WNV
Placer	PLCR1019	1019	Cx. tarsalis	Roseville	27	CO2	8/8/2023	WNV
Placer	PLCR1023	1023	Cx. tarsalis	Roseville	47	CO2	8/8/2023	WNV
Placer	PLCR1028	1028	Cx. pipiens	Lincoln	50	CO2	8/8/2023	WNV
Placer	PLCR1033	1033	Cx. tarsalis	Pleasant Grove	50	CO2	8/8/2023	WNV
Placer	PLCR1034	1034	Cx. tarsalis	Pleasant Grove	50	CO2	8/8/2023	WNV
Placer	PLCR1035	1035	Cx. tarsalis	Pleasant Grove	50	CO2	8/8/2023	WNV
Placer	PLCR1038	1038	Cx. tarsalis	Lincoln	13	CO2	8/8/2023	WNV
Placer	PLCR1043	1043	Cx. tarsalis	Lincoln	50	CO2	8/8/2023	WNV
Placer	PLCR1044	1044	Cx. tarsalis	Lincoln	49	CO2	8/8/2023	WNV
Placer	PLCR1047	1047	Cx. tarsalis	ROSEVILLE	50	CO2	8/8/2023	WNV
Placer	PLCR1048	1048	Cx. tarsalis	ROSEVILLE	50	CO2	8/8/2023	WNV
Placer	PLCR1049	1049	Cx. tarsalis	ROSEVILLE	50	CO2	8/8/2023	WNV
Placer	PLCR1051	1051	Cx. tarsalis	ROSEVILLE	50	CO2	8/8/2023	WNV
Placer	PLCR1053	1053	Cx. tarsalis	Roseville	50	CO2	8/8/2023	WNV
Placer	PLCR1054	1054	Cx. tarsalis	Roseville	50	CO2	8/8/2023	WNV
Placer	PLCR1056	1056	Cx. tarsalis	Roseville	44	CO2	8/8/2023	WNV
Placer	PLCR1060	1060	Cx. tarsalis	Elverta	50	CO2	8/8/2023	WNV
Placer	PLCR1071	1071	Cx. tarsalis	Lincoln	40	CO2	8/9/2023	WNV
Placer	PLCR1074	1074	Cx. tarsalis	Unknown	38	CO2	8/9/2023	WNV
Riverside	RIVR211	211	Cx. tarsalis	Hemet	11	CO2	7/26/2023	WNV
Riverside	RIVR226	226	Cx. tarsalis	Riverside	1	CO2	8/3/2023	WNV
Sacramento	SAYO4215	4215	Cx. pipiens	Carmichael	4	BGSENT	8/2/2023	WNV
Sacramento	SAYO4353	4353	Cx. pipiens	Walnut Grove	1	CO2	8/4/2023	WNV
Sacramento	SAYO4358	4358	Cx. pipiens	Isleton	11	CO2	8/4/2023	WNV
Sacramento	SAYO4359	4359	Cx. tarsalis	Isleton	50	CO2	8/4/2023	WNV
Sacramento	SAYO4370	4370	Cx. tarsalis	Isleton	50	CO2	8/4/2023	WNV
Sacramento	SAYO4373	4373	Cx. tarsalis	Isleton	50	CO2	8/4/2023	WNV
Sacramento	SAYO4376	4376	Cx. pipiens	Elk Grove	50	CO2	8/4/2023	WNV
Sacramento	SAYO4387	4387	Cx. tarsalis	Wilton	35	CO2	8/4/2023	WNV
Sacramento	SAYO4389	4389	Cx. tarsalis	Wilton	24	CO2	8/4/2023	WNV
Sacramento	SAYO4394	4394	Cx. pipiens	Elk Grove	13	CO2	8/4/2023	WNV
Sacramento	SAYO4401	4401	Cx. pipiens	Herald	5	GRVD	8/4/2023	WNV
Sacramento	SAYO4407	4407	Cx. tarsalis	Wilton	44	CO2	8/4/2023	WNV
Sacramento	SAYO4416	4416	Cx. tarsalis	Galt	50	CO2	8/4/2023	WNV
Sacramento	SAYO4423	4423	Cx. pipiens	Wilton	37	CO2	8/4/2023	WNV
Sacramento	SAYO4424	4424	Cx. tarsalis	Wilton	46	CO2	8/4/2023	WNV
Sacramento	SAYO4441	4441	Cx. pipiens	Orangevale	1	GRVD	8/4/2023	WNV
Sacramento	SAYO4443	4443	Cx. pipiens	Citrus Heights	25	GRVD	8/4/2023	WNV
Sacramento	SAYO4452	4452	Cx. pipiens	Citrus Heights	26	GRVD	8/4/2023	WNV
Sacramento	SAYO4461	4461	Cx. pipiens	Fair Oaks	14	GRVD	8/4/2023	WNV
Sacramento	SAYO4480	4480	Cx. pipiens	Sacramento	13	GRVD	8/4/2023	WNV
Sacramento	SAYO4483	4483	Cx. pipiens	Sacramento	2	BGSENT	8/4/2023	WNV
Sacramento	SAYO4511	4511	Cx. tarsalis	North Highlands	8	BGSENT	8/7/2023	WNV
Sacramento	SAYO4527	4527	Cx. pipiens	Sacramento	50	GRVD	8/8/2023	WNV

California Arbovirus Surveillance Bulletin #18

Week 32 Friday, August 11, 2023

Sacramento	SAYO4555	4555	Cx. tarsalis	Sacramento	50	CO2	8/8/2023	WNV
Sacramento	SAYO4557	4557	Cx. tarsalis	Sacramento	50	CO2	8/8/2023	WNV
Sacramento	SAYO4558	4558	Cx. tarsalis	Sacramento	50	CO2	8/8/2023	WNV
Sacramento	SAYO4570	4570	Cx. tarsalis	Sacramento	50	CO2	8/8/2023	WNV
Sacramento	SAYO4571	4571	Cx. tarsalis	Sacramento	50	CO2	8/8/2023	WNV
Sacramento	SAYO4600	4600	Cx. tarsalis	Sacramento, CA	40	CO2	8/8/2023	WNV
Sacramento	SAYO4610	4610	Cx. tarsalis	Carmichael	27	CO2	8/8/2023	WNV
Sacramento	SAYO4629	4629	Cx. tarsalis	Sacramento	18	CO2	8/8/2023	WNV
Sacramento	SAYO4633	4633	Cx. pipiens	Sacramento	6	GRVD	8/8/2023	WNV
Sacramento	SAYO4655	4655	Cx. tarsalis	Sacramento	8	BGSENT	8/8/2023	WNV
Sacramento	SAYO4664	4664	Cx. pipiens	Sacramento	6	BGSENT	8/8/2023	WNV
Sacramento	SAYO4671	4671	Cx. tarsalis	Sacramento	8	BGSENT	8/9/2023	WNV
Sacramento	SAYO4680	4680	Cx. pipiens	Sacramento	5	BGSENT	8/9/2023	WNV
Sacramento	SAYO4700	4700	Cx. pipiens	Sacramento	12	BGSENT	8/9/2023	WNV
San Bernardino	SANB223	223	Cx. tarsalis	San Bernardino	50	CO2	8/4/2023	WNV
San Bernardino	SANB224	224	Cx. tarsalis	San Bernardino	50	CO2	8/4/2023	WNV
San Bernardino	SANB225	225	Cx. tarsalis	San Bernardino	42	CO2	8/4/2023	WNV
San Bernardino	SANB226	226	Cx. tarsalis	San Bernardino	18	CO2	8/4/2023	WNV
San Bernardino	WVAL1392	1392	Cx. quinquefasciatus	Ontario	17	BGSENT	8/8/2023	WNV
San Bernardino	WVAL1393	1393	Cx. quinquefasciatus	Upland	8	GRVD	8/8/2023	WNV
San Bernardino	WVAL1396	1396	Cx. quinquefasciatus	Upland	8	GRVD	8/8/2023	WNV
San Bernardino	WVAL1398	1398	Cx. quinquefasciatus	Chino	14	GRVD	8/8/2023	WNV
San Bernardino	WVAL1399	1399	Cx. quinquefasciatus	Ontario	31	GRVD	8/8/2023	WNV
San Bernardino	WVAL1401	1401	Cx. quinquefasciatus	Rancho Cucamonga	19	GRVD	8/8/2023	WNV
San Bernardino	WVAL1409	1409	Cx. quinquefasciatus	Chino	11	CO2	8/8/2023	WNV
San Bernardino	WVAL1420	1420	Cx. tarsalis	Upland	21	CO2	8/8/2023	WNV
San Bernardino	WVAL1442	1442	Cx. quinquefasciatus	Rancho Cucamonga	14	GRVD	8/9/2023	WNV
San Bernardino	WVAL1444	1444	Cx. quinquefasciatus	Ontario	7	GRVD	8/9/2023	WNV
San Bernardino	WVAL1446	1446	Cx. quinquefasciatus	Ontario	45	GRVD	8/9/2023	WNV
San Bernardino	WVAL1449	1449	Cx. quinquefasciatus	Ontario	54	CO2	8/9/2023	WNV
San Bernardino	WVAL1462	1462	Cx. stigmatosoma	Chino Hills	19	GRVD	8/9/2023	WNV
San Bernardino	WVAL1479	1479	Cx. quinquefasciatus	Ontario	17	BGSENT	8/9/2023	WNV
San Bernardino	WVAL1498	1498	Cx. quinquefasciatus	Chino	30	BGSENT	8/10/2023	WNV
San Bernardino	WVAL1499	1499	Cx. quinquefasciatus	Chino	12	BGSENT	8/10/2023	WNV
San Bernardino	WVAL1505	1505	Cx. quinquefasciatus	Ontario	5	BGSENT	8/10/2023	WNV
San Joaquin	SJCM1989	1989	Cx. tarsalis	Ripon	9	CO2	8/8/2023	WNV
San Joaquin	SJCM1993	1993	Cx. tarsalis	Ripon	8	CO2	8/8/2023	WNV
San Joaquin	SJCM1994	1994	Cx. tarsalis	Escalon	50	CO2	8/8/2023	WNV
San Joaquin	SJCM1995	1995	Cx. tarsalis	Escalon	14	CO2	8/8/2023	WNV
San Joaquin	SJCM1996	1996	Cx. pipiens	Escalon	28	CO2	8/8/2023	WNV
San Joaquin	SJCM1997	1997	Cx. tarsalis	Manteca	50	CO2	8/8/2023	WNV
San Joaquin	SJCM1998	1998	Cx. tarsalis	Manteca	17	CO2	8/8/2023	WNV
San Joaquin	SJCM1999	1999	Cx. pipiens	Manteca	18	CO2	8/8/2023	WNV
San Joaquin	SJCM2000	2000	Cx. tarsalis	Manteca	17	CO2	8/8/2023	WNV
San Joaquin	SJCM2001	2001	Cx. pipiens	Manteca	16	CO2	8/8/2023	WNV
San Joaquin	SJCM2002	2002	Cx. tarsalis	Manteca	31	CO2	8/8/2023	WNV
San Joaquin	SJCM2003	2003	Cx. tarsalis	Manteca	50	CO2	8/8/2023	WNV
San Joaquin	SJCM2004	2004	Cx. tarsalis	Manteca	34	CO2	8/8/2023	WNV
San Joaquin	SJCM2007	2007	Cx. tarsalis	Lodi	50	CO2	8/8/2023	WNV
San Joaquin	SJCM2010	2010	Cx. tarsalis	Escalon	18	CO2	8/8/2023	WNV
San Joaquin	SJCM2011	2011	Cx. pipiens	Escalon	47	CO2	8/8/2023	WNV
San Joaquin	SJCM2012	2012	Cx. tarsalis	Thornton	50	CO2	8/8/2023	WNV
San Joaquin	SJCM2013	2013	Cx. tarsalis	Thornton	19	CO2	8/8/2023	WNV
San Joaquin	SJCM2014	2014	Cx. tarsalis	Lodi	50	CO2	8/8/2023	WNV
San Joaquin	SJCM2017	2017	Cx. tarsalis	Lodi	87	CO2	8/8/2023	WNV
San Joaquin	SJCM2018	2018	Cx. tarsalis	Lodi	50	CO2	8/8/2023	WNV
San Joaquin	SJCM2019	2019	Cx. tarsalis	Lodi	50	CO2	8/8/2023	WNV
San Joaquin	SJCM2020	2020	Cx. tarsalis	Lodi	50	CO2	8/8/2023	WNV
San Joaquin	SJCM2022	2022	Cx. tarsalis	Escalon	12	CO2	8/8/2023	WNV
San Joaquin	SJCM2023	2023	Cx. tarsalis	Lodi	52	CO2	8/8/2023	WNV
San Joaquin	SJCM2024	2024	Cx. pipiens	Lodi	8	CO2	8/8/2023	WNV
San Joaquin	SJCM2033	2033	Cx. pipiens	Stockton	10	CO2	8/8/2023	WNV

California Arbovirus Surveillance Bulletin #18

Week 32 Friday, August 11, 2023

San Joaquin	SJCM2038	2038	Cx. tarsalis	Stockton	15	CO2	8/8/2023	WNV
San Joaquin	SJCM2051	2051	Cx. tarsalis	Stockton	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2052	2052	Cx. tarsalis	Stockton	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2053	2053	Cx. tarsalis	Stockton	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2054	2054	Cx. tarsalis	Stockton	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2055	2055	Cx. tarsalis	Stockton	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2056	2056	Cx. pipiens	Stockton	8	CO2	8/8/2023	WNV
San Joaquin	SJCM2057	2057	Cx. tarsalis	Stockton	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2058	2058	Cx. tarsalis	Stockton	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2059	2059	Cx. tarsalis	Stockton	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2060	2060	Cx. tarsalis	Stockton	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2061	2061	Cx. tarsalis	Stockton	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2062	2062	Cx. pipiens	Stockton	33	CO2	8/8/2023	WNV
San Joaquin	SJCM2063	2063	Cx. tarsalis	Stockton	50	CO2	8/8/2023	WNV
San Joaquin	SJCM2064	2064	Cx. tarsalis	Stockton	48	CO2	8/8/2023	WNV
San Joaquin	SJCM2065	2065	Cx. pipiens	Stockton	9	CO2	8/8/2023	WNV
San Joaquin	SJCM2066	2066	Cx. tarsalis	Stockton	50	CO2	8/8/2023	WNV
San Joaquin	SJCM2069	2069	Cx. tarsalis	Stockton	50	CO2	8/8/2023	WNV
San Joaquin	SJCM2078	2078	Cx. tarsalis	Thornton	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2079	2079	Cx. tarsalis	Thornton	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2081	2081	Cx. tarsalis	Thornton	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2083	2083	Cx. tarsalis	Lodi	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2084	2084	Cx. tarsalis	Lodi	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2085	2085	Cx. tarsalis	Lodi	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2086	2086	Cx. tarsalis	Lodi	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2087	2087	Cx. tarsalis	Lodi	100	CO2	8/8/2023	WNV
San Joaquin	SJCM2088	2088	Cx. pipiens	Lodi	29	CO2	8/8/2023	WNV
San Joaquin	SJCM2090	2090	Cx. tarsalis	Stockton	9	CO2	8/10/2023	WNV
San Joaquin	SJCM2100	2100	Cx. tarsalis	Acampo	54	CO2	8/10/2023	WNV
San Joaquin	SJCM2107	2107	Cx. tarsalis	Lodi	50	CO2	8/10/2023	WNV
San Joaquin	SJCM2108	2108	Cx. tarsalis	Lodi	17	CO2	8/10/2023	WNV
San Joaquin	SJCM2109	2109	Cx. pipiens	Lodi	50	CO2	8/10/2023	WNV
San Joaquin	SJCM2110	2110	Cx. pipiens	Lodi	13	CO2	8/10/2023	WNV
San Joaquin	SJCM2120	2120	Cx. tarsalis	Farmington	37	CO2	8/10/2023	WNV
San Joaquin	SJCM2121	2121	Cx. pipiens	Farmington	50	CO2	8/10/2023	WNV
San Joaquin	SJCM2122	2122	Cx. pipiens	Farmington	50	CO2	8/10/2023	WNV
San Joaquin	SJCM2123	2123	Cx. pipiens	Farmington	50	CO2	8/10/2023	WNV
San Joaquin	SJCM2124	2124	Cx. pipiens	Farmington	11	CO2	8/10/2023	WNV
San Joaquin	SJCM2126	2126	Cx. pipiens	Stockton	5	CO2	8/10/2023	WNV
San Joaquin	SJCM2127	2127	Cx. pipiens	Farmington	100	CO2	8/10/2023	WNV
San Joaquin	SJCM2128	2128	Cx. pipiens	Farmington	100	CO2	8/10/2023	WNV
San Joaquin	SJCM2130	2130	Cx. pipiens	Farmington	100	CO2	8/10/2023	WNV
San Joaquin	SJCM2131	2131	Cx. pipiens	Farmington	100	CO2	8/10/2023	WNV
Santa Clara	STCL2312	2312	Cx. pipiens	Sunnyvale	11	CO2-EVS	8/8/2023	WNV
Santa Clara	STCL2335	2335	Cx. pipiens	San Jose	3	GRVD	8/8/2023	WNV
Santa Clara	STCL31810	1976	Cx. pipiens	Sunnyvale	13	CO2-EVS	7/25/2023	WNV
Santa Clara	STCL32309	1966	Cx. pipiens	Milpitas	15	GRVD	7/25/2023	WNV
Shasta	SHAS1414	1414	Cx. pipiens	Cottonwood	22	CO2	8/8/2023	WNV
Shasta	SHAS1430	1430	Cx. pipiens	Anderson	50	CO2	8/8/2023	WNV
Shasta	SHAS1435	1435	Cx. pipiens	Anderson	50	CO2	8/8/2023	WNV
Shasta	SHAS1439	1439	Cx. pipiens	Anderson	50	CO2	8/8/2023	WNV
Shasta	SHAS1442	1442	Cx. pipiens	Anderson	46	CO2	8/8/2023	WNV
Shasta	SHAS1457	1457	Cx. tarsalis	Cottonwood	49	CO2	8/8/2023	WNV
Shasta	SHAS1459	1459	Cx. tarsalis	Shasta Lake	15	CO2	8/8/2023	WNV
Shasta	SHAS1462	1462	Cx. pipiens	Anderson	35	CO2	8/8/2023	WNV
Shasta	SHAS1468	1468	Cx. pipiens	Anderson	50	CO2	8/8/2023	WNV
Shasta	SHAS1469	1469	Cx. pipiens	Anderson	50	CO2	8/8/2023	WNV
Shasta	SHAS1474	1474	Cx. pipiens	Redding	14	CO2	8/8/2023	WNV
Shasta	SHAS1481	1481	Cx. tarsalis	Redding	28	CO2	8/8/2023	WNV
Shasta	SHAS1485	1485	Cx. tarsalis	Lake California	17	CO2	8/9/2023	WNV
Shasta	SHAS1491	1491	Cx. pipiens	Redding	26	CO2	8/9/2023	WNV
Shasta	SHAS1499	1499	Cx. tarsalis	Redding	24	CO2	8/9/2023	WNV

California Arbovirus Surveillance Bulletin #18

Week 32 Friday, August 11, 2023

Shasta	SHAS1503	1503	Cx. tarsalis	Redding	19	CO2	8/9/2023	WNV
Shasta	SHAS1505	1505	Cx. tarsalis	Redding	21	CO2	8/9/2023	WNV
Shasta	SHAS1519	1519	Cx. pipiens	Redding	14	CO2	8/9/2023	WNV
Shasta	SHAS1527	1527	Cx. tarsalis	Bella Vista	50	CO2	8/9/2023	WNV
Shasta	SHAS1529	1529	Cx. tarsalis	Bella Vista	30	CO2	8/9/2023	WNV
Shasta	SHAS1533	1533	Cx. pipiens	Redding	50	CO2	8/9/2023	WNV
Solano	SOLA327	327	Cx. tarsalis	Rio Vista	50	CO2	8/10/2023	WNV
Stanislaus	EAST 1008	23174	Cx. tarsalis	Modesto	11	CO2	8/3/2023	WNV
Stanislaus	EAST 1077	23166	Cx. pipiens	Modesto	35	GRVD	8/1/2023	WNV
Stanislaus	EAST 2012	23167	Cx. tarsalis	MODESTO	24	CO2	8/2/2023	WNV
Stanislaus	EAST 2057	23169	Cx. pipiens	Modesto	14	CO2	8/3/2023	WNV
Stanislaus	TRLK 2315	1227	Cx tarsalis	Grayson	50	CO2	8/8/2023	SLEV
Stanislaus	TRLK 806	1190	Cx tarsalis	Grayson	41	CO2	8/8/2023	SLEV
Stanislaus	TRLK1188	1188	Cx. tarsalis	Grayson	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1189	1189	Cx. tarsalis	Grayson	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1190	1190	Cx. tarsalis	Grayson	41	CO2	8/8/2023	WNV
Stanislaus	TRLK1191	1191	Cx. pipiens	Grayson	32	CO2	8/8/2023	WNV
Stanislaus	TRLK1192	1192	Cx. tarsalis	Patterson	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1195	1195	Cx. tarsalis	Modesto	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1196	1196	Cx. tarsalis	Modesto	25	CO2	8/8/2023	WNV
Stanislaus	TRLK1197	1197	Cx. tarsalis	Modesto	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1198	1198	Cx. tarsalis	Modesto	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1199	1199	Cx. tarsalis	Modesto	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1200	1200	Cx. pipiens	Patterson	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1201	1201	Cx. pipiens	Patterson	46	CO2	8/8/2023	WNV
Stanislaus	TRLK1203	1203	Cx. tarsalis	Patterson	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1204	1204	Cx. tarsalis	Patterson	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1208	1208	Cx. tarsalis	Patterson	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1210	1210	Cx. tarsalis	Patterson	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1212	1212	Cx. pipiens	Crows Landing	41	CO2	8/8/2023	WNV
Stanislaus	TRLK1221	1221	Cx. tarsalis	Modesto	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1222	1222	Cx. tarsalis	Modesto	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1225	1225	Cx. pipiens	Grayson	30	CO2	8/8/2023	WNV
Stanislaus	TRLK1226	1226	Cx. tarsalis	Grayson	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1227	1227	Cx. tarsalis	Grayson	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1228	1228	Cx. tarsalis	Grayson	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1229	1229	Cx. tarsalis	Grayson	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1230	1230	Cx. tarsalis	Grayson	38	CO2	8/8/2023	WNV
Stanislaus	TRLK1231	1231	Cx. tarsalis	Vernalis	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1233	1233	Cx. tarsalis	Vernalis	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1235	1235	Cx. tarsalis	Vernalis	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1236	1236	Cx. tarsalis	Vernalis	50	CO2	8/8/2023	WNV
Stanislaus	TRLK1237	1237	Cx. tarsalis	Vernalis	50	CO2	8/8/2023	WNV
Sutter	SUYA442	442	Cx. tarsalis	Robbins	50	CO2	8/8/2023	WNV
Sutter	SUYA444	444	Cx. tarsalis	Pleasant Grove	50	CO2	8/8/2023	WNV
Sutter	SUYA446	446	Cx. tarsalis	Rio Oso	7	REST	8/8/2023	WNV
Sutter	SUYA449	449	Cx. tarsalis	Sutter	50	REST	8/7/2023	WNV
Sutter	SUYA454	454	Cx. tarsalis	Sacramento, CA	9	REST	8/9/2023	WNV
Sutter	SUYA455	455	Cx. tarsalis	Live Oak	38	REST	8/7/2023	WNV
Tulare	DLNO 14	238	Cx quinquefasciatus	Terra Bella	50	CO2	8/4/2023	SLEV
Tulare	DLNO 216	225	Cx. tarsalis	Earlimart	50	CO2	7/28/2023	WNV
Tulare	DLTA 60322	5033	Cx. quinquefasciatus	Exeter	13	CO2	8/8/2023	WNV
Tulare	DLTA 6407	5048	Cx. quinquefasciatus	Dinuba	44	BGSENT	8/9/2023	WNV
Tulare	DLTA 64074	4990	Cx. quinquefasciatus	DINUBA	10	BGSENT	8/4/2023	WNV
Tulare	DLTA 64074	5011	Cx. quinquefasciatus	DINUBA	22	GRVD	8/4/2023	WNV
Tulare	DLTA 6408	5053	Cx. quinquefasciatus	Dinuba	15	GRVD	8/9/2023	WNV
Tulare	DLTA 64084	4983	Cx. quinquefasciatus	Dinuba	50	GRVD	8/4/2023	WNV
Tulare	DLTA 64161	5028	Cx. quinquefasciatus	DINUBA	15	BGSENT	8/8/2023	WNV
Tulare	DLTA 64161	5028	Cx quinquefasciatus	Dinuba	15	BGSENT	8/8/2023	SLEV
Tulare	DLTA 6420	4997	Cx. quinquefasciatus	Dinuba	13	GRVD	8/4/2023	WNV
Tulare	DLTA 65201	5025	Cx. quinquefasciatus	CUTLER	10	BGSENT	8/8/2023	WNV
Tulare	DLTA 65312	4981	Cx stigmatosoma	Cutler	50	CO2	8/3/2023	SLEV

California Arbovirus Surveillance Bulletin #18

Week 32 Friday, August 11, 2023

Tulare	DLTA 653232	4969	Cx tarsalis	Yetttem	17	CO2	8/3/2023	SLEV
Tulare	DLTA 8413	5041	Cx. quinquefasciatus	Visalia	50	GRVD	8/8/2023	WNV
Tulare	DLTA 8413	5044	Cx. quinquefasciatus	Visalia	16	BGSENT	8/9/2023	WNV
Tulare	DLTA 84131	5046	Cx. quinquefasciatus	Visalia	18	CO2	8/9/2023	WNV
Tulare	DLTA 8414	4987	Cx. quinquefasciatus	Visalia	50	BGSENT	8/4/2023	WNV
Tulare	DLTA 841631	4925	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2023	WNV
Tulare	DLTA 841631	4925	Cx quinquefasciatus	Visalia	50	CO2	8/2/2023	SLEV
Tulare	DLTA 8424	5059	Cx. quinquefasciatus	Visalia	31	GRVD	8/9/2023	WNV
Tulare	DLTA 84271	5018	Cx. quinquefasciatus	VISALIA	50	BGSENT	8/8/2023	WNV
Tulare	DLTA 84271	5019	Cx. quinquefasciatus	VISALIA	50	BGSENT	8/8/2023	WNV
Tulare	DLTA 84274	4994	Cx. quinquefasciatus	Visalia	27	GRVD	8/4/2023	WNV
Tulare	DLTA 84274	5001	Cx. quinquefasciatus	Visalia	31	BGSENT	8/4/2023	WNV
Tulare	DLTA 8508	5040	Cx quinquefasciatus	Visalia	19	GRVD	8/8/2023	SLEV
Tulare	DLTA 8528	5010	Cx. quinquefasciatus	Visalia	15	GRVD	8/4/2023	WNV
Tulare	DLTA 8528	5036	Cx. quinquefasciatus	Visalia	18	GRVD	8/8/2023	WNV
Tulare	DLTA 8532	5066	Cx. quinquefasciatus	Visalia	20	GRVD	8/10/2023	WNV
Tulare	DLTA 9401	5026	Cx tarsalis	Visalia	10	BGSENT	8/8/2023	SLEV
Tulare	DLTA 9403	5038	Cx. quinquefasciatus	Visalia	14	GRVD	8/8/2023	WNV
Tulare	DLTA 94122	4869	Cx quinquefasciatus	Visalia	20	GRVD	8/2/2023	SLEV
Tulare	DLTA 962621	5067	Cx. quinquefasciatus	Exeter	22	CO2	8/10/2023	WNV
Tulare	DLTA 962621	5068	Cx. tarsalis	Exeter	13	CO2	8/10/2023	WNV
Tulare	DLTA64163	4961	Cx. quinquefasciatus	Dinuba	18	GRVD	8/3/2023	WNV
Tulare	DLTA6507	4960	Cx. quinquefasciatus	Orosi	10	GRVD	8/3/2023	WNV
Tulare	DLTA653232	4967	Cx. quinquefasciatus	Yetttem	47	CO2	8/3/2023	WNV
Tulare	DLTA653232	4969	Cx. tarsalis	Yetttem	17	CO2	8/3/2023	WNV
Tulare	DLTA75011	4975	Cx. stigmatosoma	Seville	50	CO2	8/3/2023	WNV
Tulare	DLTA75011	4976	Cx. stigmatosoma	Seville	50	CO2	8/3/2023	WNV
Tulare	DLTA75011	4977	Cx. stigmatosoma	Seville	49	CO2	8/3/2023	WNV
Tulare	TLRE101	101	Cx. quinquefasciatus	Tulare	15	GRVD	8/3/2023	WNV
Tulare	TLRE102	102	Cx. quinquefasciatus	Tulare	29	GRVD	8/3/2023	WNV
Tulare	TLRE103	103	Cx. quinquefasciatus	Tulare	13	GRVD	8/3/2023	WNV
Tulare	TLRE166	90	Cx. quinquefasciatus	Plainview	50	GRVD	8/1/2023	WNV
Tulare	TLRE166	91	Cx. tarsalis	Plainview	28	GRVD	8/1/2023	WNV
Tulare	TLRE459	92	Cx. quinquefasciatus	Woodville	43	GRVD	8/1/2023	WNV
Tulare	TLRE460	89	Cx. quinquefasciatus	Plainview	50	GRVD	8/1/2023	WNV
Tulare	TLRE469	88	Cx. quinquefasciatus	Tulare	17	GRVD	7/26/2023	WNV
Tulare	TLRE99	99	Cx. quinquefasciatus	Visalia	27	GRVD	8/2/2023	WNV
Yolo	SAYO4261	4261	Cx. tarsalis	Winters	36	BGSENT	8/3/2023	WNV
Yolo	SAYO4541	4541	Cx. pipiens	West Sacramento	8	GRVD	8/8/2023	WNV
Yolo	SAYO4543	4543	Cx. tarsalis	West Sacramento	50	CO2	8/8/2023	WNV
Yolo	SAYO4549	4549	Cx. pipiens	Knights Landing	13	GRVD	8/8/2023	WNV
Yolo	SAYO4550	4550	Cx. pipiens	Woodland	50	CO2	8/8/2023	WNV
Yolo	SAYO4551	4551	Cx. tarsalis	Woodland	12	CO2	8/8/2023	WNV
Yolo	SAYO4563	4563	Cx. tarsalis	Dunnigan	50	CO2	8/8/2023	WNV
Yolo	SAYO4564	4564	Cx. tarsalis	Dunnigan	50	CO2	8/8/2023	WNV
Yolo	SAYO4565	4565	Cx. tarsalis	Dunnigan	50	CO2	8/8/2023	WNV
Yolo	SAYO4575	4575	Cx. tarsalis	West Sacramento	37	CO2	8/8/2023	WNV
Yolo	SAYO4581	4581	Cx. tarsalis	West Sacramento	17	CO2	8/8/2023	WNV
Yolo	SAYO4582	4582	Cx. pipiens	West Sacramento	17	GRVD	8/8/2023	WNV
Yolo	SAYO4589	4589	Cx. tarsalis	Zamora	50	CO2	8/8/2023	WNV
Yolo	SAYO4605	4605	Cx. tarsalis	Woodland	50	CO2	8/8/2023	WNV
Yolo	SAYO4606	4606	Cx. tarsalis	Woodland	50	CO2	8/8/2023	WNV
Yolo	SAYO4607	4607	Cx. tarsalis	Woodland	50	CO2	8/8/2023	WNV
Yolo	SAYO4608	4608	Cx. tarsalis	Woodland	50	CO2	8/8/2023	WNV
Yolo	SAYO4692	4692	Cx. tarsalis	Winters	18	BGSENT	8/9/2023	WNV
Yolo	SAYO4716	4716	Cx. tarsalis	Woodland	50	CO2	8/9/2023	WNV
Yolo	SAYO4719	4719	Cx. pipiens	Woodland	1	CO2	8/9/2023	WNV
Yolo	SAYO4725	4725	Cx. tarsalis	woodland	50	CO2	8/9/2023	WNV
Yolo	SAYO4726	4726	Cx. tarsalis	woodland	50	CO2	8/9/2023	WNV
Yolo	SAYO4727	4727	Cx. tarsalis	woodland	50	CO2	8/9/2023	WNV
Yolo	SAYO4728	4728	Cx. tarsalis	woodland	50	CO2	8/9/2023	WNV
Yolo	SAYO4729	4729	Cx. tarsalis	woodland	50	CO2	8/9/2023	WNV

California Arbovirus Surveillance Bulletin #18

Week 32 Friday, August 11, 2023

Yolo	SAYO4732	4732	Cx. tarsalis	Woodland	11	GRVD	8/9/2023	WNV
Yolo	SAYO4736	4736	Cx. tarsalis	Davis	50	CO2	8/9/2023	WNV
Yolo	SAYO4743	4743	Cx. tarsalis	Davis	27	CO2	8/9/2023	WNV
Yolo	SAYO4752	4752	Cx. tarsalis	Davis	12	CO2	8/9/2023	WNV
Yuba	SUYA453	453	Cx. tarsalis	Marysville	50	CO2	8/10/2023	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05	Band 06
Butte	BUCO 1	Chico	8/1/2023	WNV	2126	2127	2130			
Butte	BUCO 2	Oroville	8/1/2023	WNV	2132	2133	2135	2170		
Butte	BUCO 3	Oroville	8/1/2023	WNV	2141	2142				
Butte	BUCO 4	Gridley	8/1/2023	WNV	2144	2145	2146	2148		
Butte	BUCO 5	Honcut	8/1/2023	WNV	2153					
Butte	BUCO 6	Chico	8/1/2023	WNV	2158	2160				
Butte	BUCO 7	Chico	8/1/2023	WNV	2164	2168				
Sutter	SUYA 14	Sutter	8/3/2023	WNV	2813					
Sutter	SUYA 15	Robbins	8/3/2023	WNV	2825	2827				
Sutter	SUYA 30	Live Oak	8/3/2023	WNV	2803	2806				
Sutter	SUYA 84	Yuba City	8/3/2023	WNV	2784					
Tulare	TLRE 8	Tulare	8/4/2023	WNV	2881	2882	2885	2886	2887	2889
Yuba	SUYA 10	Olivehurst	8/3/2023	WNV	2787	2790	2791			

California Arbovirus Surveillance Bulletin #18

Week 32 Friday, August 11, 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