

## California Arbovirus Surveillance Bulletin #17

Week 31 Friday, August 4, 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: Kern (1), Merced (1), San Bernardino (2), San Joaquin (1), and Tulare (1). **These are the first human cases of WNV reported from Kern, Merced, San Bernardino, and San Joaquin counties this year.** In 2023, a total of 8 human cases of WNV have been reported from 5 counties: Kern (1), Merced (1), San Bernardino (2), San Joaquin (1), and Tulare (3). Of the 8 cases, (75%) had neuroinvasive disease. The median age of the case-patients was 43 years and 8 (100%) of the case-patients were male. The dates of symptom onset ranged from June 30 to July 20. In addition to the 8 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, 7 human cases of WNV had been reported from 4 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, 2 human cases of SLEV had been reported from 2 counties.

#### Dead Birds

A total of 34 new WNV positive dead birds were reported this week from 13 counties: Colusa (2), Contra Costa (1), Los Angeles (1), Placer (3), Riverside (4), Sacramento (12), San Bernardino (3), San Joaquin (2), Solano (1), Sonoma (1), Sutter (1), Tulare (1), and Yolo (2). **This is the first detection of WNV activity in Colusa and Sonoma counties and the first detection of a WNV positive bird in San Bernardino County this year.** In 2023, 181 WNV positive dead birds have been reported from 20 counties. At this time last year, 60 WNV positive dead birds had been reported from 13 counties.

#### Mosquito Pools

##### West Nile virus

A total of 393 new WNV positive mosquito pools were identified from 22 counties: Butte (10), Contra Costa (1), Fresno (11), Kern (10), Kings (14), Lake (5), Los Angeles (41), Madera (23), Merced (5), Orange (1), Placer (21), Riverside (13), Sacramento (30), San Bernardino (21), San Joaquin (48), Shasta (23), Stanislaus (25), Sutter (9), Tulare (39), Ventura (1), Yolo (37), and Yuba (5). **This is the first detection of WNV activity in Orange County this year and the first detection of a WNV positive mosquito pool in Ventura County this year.** In 2023, 1,582 WNV positive mosquito pools have been reported from 27 counties. At this time last year, 965 WNV positive mosquito pools had been reported from 22 counties.

##### St. Louis encephalitis virus

A total of 25 new SLEV positive mosquito pools were identified from 6 counties: Fresno (6), Kern (5), Kings (3), Madera (1), Riverside (9), and Tulare (1). In 2023, 162 SLEV positive mosquito pools have been reported from 9 counties. At this time last year, 12 SLEV positive pools had been reported from 4 counties.

#### Sentinel Chickens

A total of 14 WNV positive chickens were reported this week from Merced County. In 2023, 27 WNV positive chickens have been reported from 4 counties. At this time last year, 17 WNV positive chickens had been reported from 5 counties.

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2022 & 2023 YTD West Nile Virus Comparisons		
	2022	2023
Total No. Dead Bird Reports	3,066	3,602
No. Positive Counties	23	31
No. Human Cases	7	8
No. Positive Dead Birds / No. Tested	60 / 817	181 / 913
No. Positive Mosquito Pools / No. Tested	965 / 18,736	1,582 / 28,718
No. Seroconversions / No. Tested	17 / 2,815	27 / 2,074

YTD WNV Activity by Element and County, 2023					
County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			3	4	
Butte				24	4
Colusa			2		
Contra Costa			3	3	
El Dorado			1		
Fresno				48	
Imperial				1	
Kern	1	1		37	
Kings		1		47	
Lake			1	7	
Los Angeles			11	105	
Madera				43	
Merced	1			11	19
Napa				2	
Orange				1	
Placer			16	108	
Riverside			10	24	
Sacramento			82	151	
San Bernadino	2		3	42	
San Joaquin	1		11	267	
San Mateo			1		
Santa Clara			15	1	
Shasta				46	
Solano			2	12	
Sonoma			1		
Stanislaus			1	102	
Sutter			3	42	2
Tulare	3		5	280	2
Ventura			3	1	
Yolo			7	157	
Yuba				16	
<b>Totals</b>	<b>8</b>	<b>2</b>	<b>181</b>	<b>1,582</b>	<b>27</b>

\*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		21	
Imperial		1	
Kern	1	22	
Kings		7	
Madera		1	
Riverside		99	
San Joaquin		1	
Stanislaus		1	
Tulare		9	
<b>Totals</b>	<b>1</b>	<b>162</b>	<b>0</b>

### TESTING SUMMARIES

		WNV	SLEV	WEEV
<b>Human Cases</b>	Week	6	0	0
	YTD	8	1	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
<b>Dead Birds</b>	Week	34 / 69					
	YTD	181 / 913					
<b>Chicken Sera</b>	Week	14 / 88	0 / 88	0 / 88			
	YTD	27 / 2,074	0 / 2,074	0 / 2,074			
<b>Mosquito Pools</b>	Week	393 / 2,033	28 / 2,008	0 / 2,005	0 / 17	0 / 17	0 / 17
	YTD	1,582 / 28,718	162 / 25,882	0 / 28,188	0 / 303	0 / 303	0 / 303

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### NEW POSITIVES

#### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Colusa	Colusa MAD	Grimes	95950	American Crow	7/10/2023	WNV
Colusa	Colusa MAD	Grimes	95950	California Scrub-Jay	7/26/2023	WNV
Contra Costa	Contra Costa MVCD	Oakley	94561	California Scrub-Jay	7/28/2023	WNV
Los Angeles	San Gabriel Valley MVCD	Covina	91722	American Crow	8/1/2023	WNV
Placer	Placer MVCD	Lincoln	95648	House Finch	7/27/2023	WNV
Placer	Placer MVCD	Roseville	95678	House Finch	8/1/2023	WNV
Placer	Placer MVCD	Roseville	95747	Rock Dove (Pigeon)	7/27/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/21/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92882	Bullock's Oriole	7/26/2023	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	7/24/2023	WNV
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	7/24/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	7/31/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	Western Bluebird	7/26/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Elverta	95626	American Crow	7/31/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Orangevale	95662	House Finch	7/28/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	Oak Titmouse	7/28/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	American Crow	7/27/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	7/27/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	American Crow	7/28/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	7/30/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	California Scrub-Jay	7/27/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Walnut Grove	95690	Western Bluebird	7/31/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	7/31/2023	WNV
San Bernardino	San Bernardino Vector Control Program	Redlands	92374	American Crow	7/26/2023	WNV
San Bernardino	San Bernardino Vector Control Program	San Bernardino	92410	California Scrub-Jay	7/25/2023	WNV
San Bernardino	West Valley MVCD	Ontario	91762	American Crow	7/30/2023	WNV
San Joaquin	San Joaquin Co MVCD	French Camp	95231	American Crow	8/1/2023	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95204	California Scrub-Jay	8/1/2023	WNV
Solano	Solano Co MAD	Vacaville	95687	American Crow	8/2/2023	WNV
Sonoma	Marin-Sonoma MVCD	Petaluma	94954	American Crow	8/3/2023	WNV
Sutter	Sutter-Yuba MVCD	Nicolaus	95659	Bushtit	8/3/2023	WNV
Tulare	Delta MVCD	Visalia	93277	California Scrub-Jay	7/31/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Lesser Goldfinch	7/29/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Mourning Dove	7/25/2023	WNV

#### Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus
Butte	BUCO 30	321	Cx tarsalis	Chico	50	CO2	7/24/2023	WNV
Butte	BUCO 30	322	Cx tarsalis	Chico	50	CO2	7/24/2023	WNV
Butte	BUCO 49	320	Cx tarsalis	Biggs	50	CO2	7/24/2023	WNV
Butte	BUCO 55	332	Cx tarsalis	Palermo	50	CO2	7/26/2023	WNV
Butte	BUCO 55	334	Cx tarsalis	Palermo	50	CO2	7/26/2023	WNV
Butte	BUCO 57	343	Cx tarsalis	Chico	50	CO2	7/25/2023	WNV
Butte	BUCO 69	330	Cx tarsalis	Oroville	50	CO2	7/25/2023	WNV
Butte	BUCO 75	313	Cx tarsalis	Chico	50	CO2	7/24/2023	WNV
Butte	BUCO 75	314	Cx tarsalis	Chico	50	CO2	7/24/2023	WNV
Butte	BUCO 75	315	Cx tarsalis	Chico	50	CO2	7/24/2023	WNV
Contra Costa	CNTR 1688	784	Cx pipiens	Brentwood	27	CO2	8/1/2023	WNV
Fresno	CNSL 1068	675	Cx tarsalis	Fresno	50	CO2	7/26/2023	WNV
Fresno	CNSL 1215	664	Cx quinquefasciatus	Fresno	14	GRVD	7/25/2023	SLEV
Fresno	CNSL 1242	672	Cx quinquefasciatus	Fresno	27	GRVD	7/26/2023	WNV
Fresno	CNSL 1765	671	Cx quinquefasciatus	Clovis	26	GRVD	7/26/2023	WNV
Fresno	CNSL 2266	199	Cx quinquefasciatus	Sanger	47	GRVD	7/28/2023	WNV
Fresno	CNSL 4150	680	Cx quinquefasciatus	Selma	40	GRVD	7/27/2023	SLEV
Fresno	CNSL 8036	662	Cx quinquefasciatus	Fresno	23	GRVD	7/25/2023	WNV
Fresno	FRNO 112	657	Cx quinquefasciatus	Fresno	34	BGSENT	7/25/2023	WNV
Fresno	FRNO 174	672	Cx quinquefasciatus	Fresno	18	GRVD	7/27/2023	WNV
Fresno	FRNO 176	656	Cx quinquefasciatus	Fresno	17	GRVD	7/27/2023	SLEV
Fresno	FRNO 186	681	Cx quinquefasciatus	Fresno	25	GRVD	7/25/2023	WNV
Fresno	FRNO 35	679	Cx quinquefasciatus	Fresno	50	GRVD	7/27/2023	SLEV

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Fresno	FRNO 8	663	Cx quinquefasciatus	Fresno	32	GRVD	7/25/2023	SLEV
Fresno	FRNO 8006	676	Cx quinquefasciatus	Kerman	22	GRVD	7/25/2023	WNV
Fresno	FRNO 88	677	Cx quinquefasciatus	Fresno	39	GRVD	7/25/2023	SLEV
Fresno	FRWS 100006	288	Cx tarsalis	Dos Palos	50	CO2	8/1/2023	WNV
Fresno	FRWS 4301	273	Cx tarsalis	Cantua Creek	50	BGSENT	7/28/2023	WNV
Kern	KERN 1104	1102	Cx tarsalis	Wasco	27	CO2	7/25/2023	WNV
Kern	KERN 1105	1098	Cx tarsalis	Lost Hills	50	CO2	7/25/2023	WNV
Kern	KERN 2022	1112	Cx quinquefasciatus	Shafter	21	GRVD	7/27/2023	WNV
Kern	KERN 3004	1118	Cx quinquefasciatus	Bakersfield	31	CO2	7/28/2023	WNV
Kern	KERN 3004	1118	Cx quinquefasciatus	Bakersfield	31	CO2	7/28/2023	SLEV
Kern	KERN 3021	1095	Cx tarsalis	Wasco	38	CO2	7/25/2023	SLEV
Kern	KERN 3023	1097	Cx tarsalis	Wasco	50	CO2	7/25/2023	WNV
Kern	KERN 35	1113	Cx tarsalis	Bakersfield	50	CO2	7/27/2023	SLEV
Kern	KERN 39	1115	Cx tarsalis	Wasco	50	CO2	7/27/2023	SLEV
Kern	KERN 40	1096	Cx tarsalis	Lost Hills	50	CO2	7/25/2023	WNV
Kern	KERN 47	1111	Cx quinquefasciatus	Buttonwillow	50	GRVD	7/27/2023	WNV
Kern	KERN 91	1093	Cx tarsalis	Lost Hills	40	CO2	7/25/2023	WNV
Kern	WEST 6200	47	Cx quinquefasciatus	Taft	36	GRVD	8/2/2023	WNV
Kern	WEST 6209	44	Cx quinquefasciatus	Taft	12	GRVD	8/2/2023	WNV
Kern	WEST 6225	46	Cx quinquefasciatus	Taft	13	GRVD	8/2/2023	SLEV
Kings	KNGS 3028	337	Cx tarsalis	Hanford	50	CO2	7/24/2023	WNV
Kings	KNGS 3028	338	Cx tarsalis	Hanford	50	CO2	7/24/2023	WNV
Kings	KNGS 3028	339	Cx tarsalis	Hanford	50	CO2	7/24/2023	WNV
Kings	KNGS 3030	343	Cx tarsalis	Lemoore	49	CO2	7/25/2023	WNV
Kings	KNGS 3074	356	Cx tarsalis	Armona	50	CO2	7/26/2023	WNV
Kings	KNGS 3074	357	Cx tarsalis	Armona	26	CO2	7/26/2023	WNV
Kings	KNGS 3079	350	Cx tarsalis	Lemoore	50	CO2	7/25/2023	WNV
Kings	KNGS 3083	344	Cx tarsalis	Lemoore	50	CO2	7/25/2023	WNV
Kings	KNGS 3083	346	Cx tarsalis	Lemoore	50	CO2	7/25/2023	WNV
Kings	KNGS 3130	359	Cx tarsalis	Hardwick	50	CO2	7/27/2023	SLEV
Kings	KNGS 3130	360	Cx tarsalis	Hardwick	50	CO2	7/27/2023	WNV
Kings	KNGS 3130	361	Cx tarsalis	Hardwick	50	CO2	7/27/2023	WNV
Kings	KNGS 3130	362	Cx tarsalis	Hardwick	50	CO2	7/27/2023	WNV
Kings	KNGS 3130	362	Cx tarsalis	Hardwick	50	CO2	7/27/2023	SLEV
Kings	KNGS 3130	362	Cx tarsalis		50	CO2	7/27/23	SLEV
Kings	KNGS 3131	355	Cx tarsalis	Stratford	50	CO2	7/26/2023	WNV
Kings	KNGS 8010	336	Cx tarsalis	Hanford	50	CO2	7/24/2023	WNV
Lake	LAKE 131	234	Cx tarsalis	Lower Lake	50	CO2	7/25/2023	WNV
Lake	LAKE 226	205	Cx tarsalis	Lower Lake	25	CO2	7/25/2023	WNV
Lake	LAKE 233	236	Cx tarsalis	Clearlake Oaks	50	CO2	7/25/2023	WNV
Lake	LAKE 293	238	Cx tarsalis	Lakeport	50	CO2	7/25/2023	WNV
Lake	LAKE 392	217	Cx tarsalis	Middletown	50	CO2	7/25/2023	WNV
Los Angeles	GRLA 2007	5489	Cx quinquefasciatus	Toluca Lake	50	GRVD	7/25/2023	WNV
Los Angeles	GRLA 2021	5503	Cx quinquefasciatus	Reseda	50	GRVD	7/26/2023	WNV
Los Angeles	GRLA 2030	5517	Cx quinquefasciatus	West Hills	12	GRVD	7/27/2023	WNV
Los Angeles	GRLA 2222	477	Cx quinquefasciatus	Rowland Heights	50	GRVD	7/25/2023	WNV
Los Angeles	GRLA 2222	479	Cx stigmatosoma	Rowland Heights	24	GRVD	7/25/2023	WNV
Los Angeles	GRLA 2268	492	Cx quinquefasciatus	Cerritos	50	GRVD	7/26/2023	WNV
Los Angeles	GRLA 2635	5500	Cx quinquefasciatus	Lake Balboa	50	GRVD	7/26/2023	WNV
Los Angeles	GRLA 2724	5515	Cx quinquefasciatus	Winnetka	50	GRVD	7/27/2023	WNV
Los Angeles	GRLA 2819	5510	Cx quinquefasciatus	Canoga Park	16	GRVD	7/27/2023	WNV
Los Angeles	GRLA 2821	5511	Cx quinquefasciatus	Winnetka	50	GRVD	7/27/2023	WNV
Los Angeles	GRLA 2823	5512	Cx quinquefasciatus	Chatsworth	36	GRVD	7/27/2023	WNV
Los Angeles	GRLA 2955	490	Cx quinquefasciatus	Cerritos	50	GRVD	7/26/2023	WNV
Los Angeles	GRLA 2995	5513	Cx quinquefasciatus	Woodland Hills	50	GRVD	7/27/2023	WNV
Los Angeles	GRLA 3028	5519	Cx quinquefasciatus	West Hills	27	GRVD	7/27/2023	WNV
Los Angeles	GRLA 3036	5518	Cx quinquefasciatus	Canoga Park	50	GRVD	7/27/2023	WNV
Los Angeles	GRLA 3040	487	Cx quinquefasciatus	La Mirada	50	GRVD	7/26/2023	WNV
Los Angeles	GRLA 3060	489	Cx quinquefasciatus	Norwalk	50	GRVD	7/26/2023	WNV
Los Angeles	GRLA 3080	5493	Cx quinquefasciatus	North Hollywood	50	GRVD	7/25/2023	WNV
Los Angeles	SGVA 1022	397	Cx quinquefasciatus	Azusa	50	GRVD	8/1/2023	WNV
Los Angeles	SGVA 1070	394	Cx quinquefasciatus	Bradbury	50	GRVD	8/1/2023	WNV

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Los Angeles	SGVA 1076	391	Cx quinquefasciatus	Pomona	50	GRVD	8/1/2023	WNV
Los Angeles	SGVA 1119	396	Cx quinquefasciatus	La Verne	34	GRVD	8/1/2023	WNV
Los Angeles	SGVA 1216	408	Cx quinquefasciatus	Covina	50	GRVD	8/3/2023	WNV
Los Angeles	SGVA 1217	413	Cx quinquefasciatus	Covina	50	GRVD	8/3/2023	WNV
Los Angeles	SGVA 1280	406	Cx quinquefasciatus	Covina	35	GRVD	8/3/2023	WNV
Los Angeles	SGVA 1281	409	Cx quinquefasciatus	Covina	47	GRVD	8/3/2023	WNV
Los Angeles	SGVA 1289	411	Cx quinquefasciatus	Covina	28	GRVD	8/3/2023	WNV
Los Angeles	SGVA 1290	405	Cx quinquefasciatus	Covina	50	GRVD	8/3/2023	WNV
Los Angeles	SGVA 332	379	Cx quinquefasciatus	Baldwin Park	50	GRVD	8/2/2023	WNV
Los Angeles	SGVA 448	412	Cx quinquefasciatus	La Verne	50	GRVD	8/3/2023	WNV
Los Angeles	SGVA 451	384	Cx quinquefasciatus	Glendora	50	GRVD	8/1/2023	WNV
Los Angeles	SGVA 458	380	Cx quinquefasciatus	Covina	47	GRVD	8/1/2023	WNV
Los Angeles	SGVA 508	414	Cx quinquefasciatus	Covina	50	GRVD	8/3/2023	WNV
Los Angeles	SGVA 509	388	Cx quinquefasciatus	Glendora	50	GRVD	8/1/2023	WNV
Los Angeles	SGVA 62	402	Cx quinquefasciatus	Covina	50	GRVD	8/3/2023	WNV
Los Angeles	SGVA 64	410	Cx quinquefasciatus	West Covina	50	GRVD	8/3/2023	WNV
Los Angeles	SGVA 7	395	Cx quinquefasciatus	Claremont	50	GRVD	8/1/2023	WNV
Los Angeles	SGVA 898	382	Cx quinquefasciatus	San Gabriel	50	GRVD	8/1/2023	WNV
Los Angeles	SGVA 915	378	Cx quinquefasciatus	San Dimas	50	GRVD	8/1/2023	WNV
Los Angeles	SGVA 965	376	Cx quinquefasciatus	Claremont	50	GRVD	8/1/2023	WNV
Los Angeles	SGVA 972	407	Cx quinquefasciatus	Covina	50	GRVD	8/3/2023	WNV
Madera	MADR 1057	151	Cx tarsalis	Chowchilla	44	CO2	7/25/2023	WNV
Madera	MADR 189	164	Cx tarsalis	Firebaugh	50	CO2	7/25/2023	WNV
Madera	MADR 195	189	Cx quinquefasciatus	Madera	46	CO2	7/28/2023	WNV
Madera	MADR 227	140	Cx quinquefasciatus	Madera	50	CO2	7/20/2023	WNV
Madera	MADR 227	141	Cx tarsalis	Madera	50	CO2	7/20/2023	WNV
Madera	MADR 227	182	Cx quinquefasciatus	Madera	50	CO2	7/27/2023	WNV
Madera	MADR 227	183	Cx tarsalis	Madera	50	CO2	7/27/2023	WNV
Madera	MADR 298	156	Cx quinquefasciatus	Chowchilla	22	CO2	7/25/2023	WNV
Madera	MADR 300	152	Cx quinquefasciatus	Chowchilla	19	CO2	7/25/2023	SLEV
Madera	MADR 311	173	Cx quinquefasciatus	Madera	50	CO2	7/27/2023	WNV
Madera	MADR 3334	142	Cx quinquefasciatus	Madera	50	CO2	7/20/2023	WNV
Madera	MADR 3334	143	Cx tarsalis	Madera	50	CO2	7/20/2023	WNV
Madera	MADR 3334	180	Cx quinquefasciatus	Madera	50	CO2	7/27/2023	WNV
Madera	MADR 3334	181	Cx tarsalis	Madera	50	CO2	7/27/2023	WNV
Madera	MADR 3334	184	Cx quinquefasciatus	Madera	50	CO2	7/27/2023	WNV
Madera	MADR 3334	185	Cx tarsalis	Madera	50	CO2	7/27/2023	WNV
Madera	MADR 697	158	Cx tarsalis	Firebaugh	50	CO2	7/25/2023	WNV
Madera	MADR 704	129	Cx tarsalis	Madera	50	CO2	7/19/2023	WNV
Madera	MADR 704	130	Cx quinquefasciatus	Madera	50	CO2	7/19/2023	WNV
Madera	MADR 706	188	Cx tarsalis	Madera	50	CO2	7/28/2023	WNV
Madera	MADR 714	145	Aedes aegypti	Madera	13	BGSENT	7/19/2023	WNV
Madera	MADR 967	134	Cx quinquefasciatus	Madera	31	CO2	7/20/2023	WNV
Madera	MADR 967	135	Cx tarsalis	Madera	50	CO2	7/20/2023	WNV
Madera	MADR 967	179	Cx tarsalis	Madera	41	CO2	7/27/2023	WNV
Merced	MERC 1005	623	Cx tarsalis	Atwater	11	CO2	8/1/2023	WNV
Merced	MERC 346755	618	Cx pipiens	Mcswain	11	CO2	7/27/2023	WNV
Merced	MERC 405	625	Cx pipiens	Hilmar	50	CO2	8/2/2023	WNV
Merced	MERC 441536	627	Cx pipiens	Hilmar-Irwin	45	BGSENT	8/2/2023	WNV
Merced	MERC 818438	616	Cx pipiens	Merced	50	CO2	7/27/2023	WNV
Orange	ORCO 328	2394	Cx quinquefasciatus	Fullerton	29	GRVD	7/20/2023	WNV
Placer	PLCR 1114	979	Cx tarsalis	Lincoln	50	CO2	8/1/2023	WNV
Placer	PLCR 1114	980	Cx tarsalis	Lincoln	50	CO2	8/1/2023	WNV
Placer	PLCR 139	930	Cx tarsalis	Roseville	50	CO2	8/1/2023	WNV
Placer	PLCR 139	932	Cx tarsalis	Roseville	50	CO2	8/1/2023	WNV
Placer	PLCR 17	959	Cx tarsalis	Sheridan	50	CO2	8/1/2023	WNV
Placer	PLCR 191218	914	Cx tarsalis	Roseville	50	CO2	8/1/2023	WNV
Placer	PLCR 191218	916	Cx tarsalis	Roseville	50	CO2	8/1/2023	WNV
Placer	PLCR 194232	940	Cx tarsalis	Pleasant Grove	50	CO2	8/1/2023	WNV
Placer	PLCR 194232	941	Cx tarsalis	Pleasant Grove	50	CO2	8/1/2023	WNV
Placer	PLCR 194232	942	Cx tarsalis	Pleasant Grove	50	CO2	8/1/2023	WNV
Placer	PLCR 194232	944	Cx tarsalis	Pleasant Grove	39	CO2	8/1/2023	WNV

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Placer	PLCR 197861	1009	Cx tarsalis	Lincoln	5	CO2	8/3/2023	WNV
Placer	PLCR 25	951	Cx tarsalis	Lincoln	50	CO2	8/1/2023	WNV
Placer	PLCR 25	952	Cx tarsalis	Lincoln	40	CO2	8/1/2023	WNV
Placer	PLCR 30	977	Cx pipiens	Lincoln	50	CO2	8/1/2023	WNV
Placer	PLCR 30	978	Cx tarsalis	Lincoln	23	CO2	8/1/2023	WNV
Placer	PLCR 466642	921	Cx tarsalis	Roseville	13	CO2	8/1/2023	WNV
Placer	PLCR 525	967	Cx tarsalis	Lincoln	50	CO2	8/1/2023	WNV
Placer	PLCR 525	968	Cx tarsalis	Lincoln	50	CO2	8/1/2023	WNV
Placer	PLCR 525	969	Cx tarsalis	Lincoln	50	CO2	8/1/2023	WNV
Placer	PLCR 525	970	Cx tarsalis	Lincoln	50	CO2	8/1/2023	WNV
Riverside	COAV 0	4119	Cx tarsalis	Indio	7	CO2	8/4/2023	SLEV
Riverside	COAV 0	4121	Cx tarsalis	Indio	50	CO2	8/4/2023	SLEV
Riverside	COAV 122	4007	Cx tarsalis	Mecca	33	CO2	8/2/2023	SLEV
Riverside	COAV 130	3943	Cx tarsalis	Oasis	50	CO2	8/2/2023	WNV
Riverside	COAV 130	3943	Cx tarsalis	Oasis	50	CO2	8/2/2023	SLEV
Riverside	COAV 2	3941	Cx tarsalis	Oasis	8	CO2	8/2/2023	WNV
Riverside	COAV 2	3941	Cx tarsalis	Oasis	8	CO2	8/2/2023	SLEV
Riverside	COAV 30	3947	Cx quinquefasciatus	Thermal	50	CO2	8/2/2023	SLEV
Riverside	COAV 33	4029	Cx tarsalis	Thermal	49	CO2	8/2/2023	WNV
Riverside	COAV 35	3950	Cx tarsalis	Mecca	17	CO2	8/2/2023	WNV
Riverside	COAV 5	4025	Cx tarsalis	Oasis	50	CO2	8/2/2023	SLEV
Riverside	COAV 56	4008	Cx tarsalis	North Shore	50	CO2	8/2/2023	WNV
Riverside	COAV 56	4008	Cx tarsalis	North Shore	50	CO2	8/2/2023	SLEV
Riverside	COAV 8	3938	Cx tarsalis	Oasis	8	CO2	8/2/2023	SLEV
Riverside	NWST 183	157	Cx quinquefasciatus	Corona	50	BGSENT	7/20/2023	WNV
Riverside	NWST 218	165	Cx quinquefasciatus	Eastvale	47	GRVD	7/25/2023	WNV
Riverside	NWST 229	155	Cx quinquefasciatus	Riverside	50	BGSENT	7/19/2023	WNV
Riverside	NWST 23	139	Cx quinquefasciatus	Norco	50	BGSENT	7/11/2023	WNV
Riverside	NWST 236	159	Cx tarsalis	Corona	50	BGSENT	7/20/2023	WNV
Riverside	NWST 37	147	Cx quinquefasciatus	Eastvale	50	GRVD	7/13/2023	WNV
Riverside	NWST 48	140	Cx quinquefasciatus	Norco	33	GRVD	7/11/2023	WNV
Riverside	NWST 80	168	Cx quinquefasciatus	Norco	50	BGSENT	7/25/2023	WNV
Sacramento	SAYO 201006	4151	Cx tarsalis	Sacramento	50	CO2	8/1/2023	WNV
Sacramento	SAYO 201006	4152	Cx tarsalis	Sacramento	50	CO2	8/1/2023	WNV
Sacramento	SAYO 202006	4138	Cx tarsalis	Sacramento	50	CO2	8/1/2023	WNV
Sacramento	SAYO 202006	4139	Cx tarsalis	Sacramento	50	CO2	8/1/2023	WNV
Sacramento	SAYO 213017	4160	Cx pipiens	Sacramento	23	GRVD	8/1/2023	WNV
Sacramento	SAYO 214011	3886	Cx pipiens	Fair Oaks	24	CO2	7/28/2023	WNV
Sacramento	SAYO 214013	3873	Cx tarsalis	Carmichael	50	CO2	7/28/2023	WNV
Sacramento	SAYO 214013	3874	Cx pipiens	Carmichael	13	GRVD	7/28/2023	WNV
Sacramento	SAYO 214030	3882	Cx pipiens	Fair Oaks	14	GRVD	7/28/2023	WNV
Sacramento	SAYO 222064	4044	Cx pipiens	Sacramento	40	GRVD	8/1/2023	WNV
Sacramento	SAYO 223006	4182	Cx pipiens	South Watt Avenue	25	CO2	8/1/2023	WNV
Sacramento	SAYO 232012	4189	Cx pipiens	Elk Grove	13	CO2	8/1/2023	WNV
Sacramento	SAYO 232012	4190	Cx tarsalis	Elk Grove	26	CO2	8/1/2023	WNV
Sacramento	SAYO 233009	4192	Cx pipiens	Elk Grove	15	CO2	8/1/2023	WNV
Sacramento	SAYO 234011	4198	Cx tarsalis	Sacramento	27	CO2	8/1/2023	WNV
Sacramento	SAYO 242013	3961	Cx tarsalis	Hood	50	CO2	7/28/2023	WNV
Sacramento	SAYO 243009	4180	Cx tarsalis	Elk Grove	22	CO2	8/1/2023	WNV
Sacramento	SAYO 243026	3964	Cx pipiens	Elk Grove	50	CO2	7/28/2023	WNV
Sacramento	SAYO 243026	3967	Cx tarsalis	Elk Grove	50	CO2	7/28/2023	WNV
Sacramento	SAYO 243026	3968	Cx tarsalis	Elk Grove	50	CO2	7/28/2023	WNV
Sacramento	SAYO 243026	3969	Cx tarsalis	Elk Grove	50	CO2	7/28/2023	WNV
Sacramento	SAYO 243026	3971	Cx pipiens	Elk Grove	17	GRVD	7/28/2023	WNV
Sacramento	SAYO 245002	3914	Cx tarsalis	Wilton	50	CO2	7/28/2023	WNV
Sacramento	SAYO 253016	3949	Cx tarsalis	Galt	32	CO2	7/28/2023	WNV
Sacramento	SAYO 271007	3859	Cx tarsalis	Isleton	41	CO2	7/28/2023	WNV
Sacramento	SAYO 378908	3850	Cx pipiens	Citrus Heights	17	BGSENT	7/28/2023	WNV
Sacramento	SAYO 411552	3847	Cx pipiens	Citrus Heights	31	BGSENT	7/28/2023	WNV
Sacramento	SAYO 412143	3839	Cx pipiens	Citrus Heights	25	BGSENT	7/28/2023	WNV
Sacramento	SAYO 412189	3956	Cx pipiens	Fair Oaks	12	BGSENT	7/28/2023	WNV
Sacramento	SAYO 412191	3920	Cx tarsalis	Fair Oaks	15	BGSENT	7/28/2023	WNV

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San Bernardino	SANB 332	217	Cx quinquefasciatus	Fontana	27	CO2	7/26/2023	WNV
San Bernardino	SANB 37	220	Cx tarsalis	San Bernardino	33	CO2	7/28/2023	WNV
San Bernardino	SANB 371	219	Cx quinquefasciatus	San Bernardino	10	CO2	7/26/2023	WNV
San Bernardino	WVAL 1089	1376	Cx quinquefasciatus	Montclair	11	BGSENT	8/4/2023	WNV
San Bernardino	WVAL 1091	1378	Cx quinquefasciatus	Ontario	7	BGSENT	8/4/2023	WNV
San Bernardino	WVAL 12	1293	Cx quinquefasciatus	Chino	22	BGSENT	8/2/2023	WNV
San Bernardino	WVAL 127	1228	Cx quinquefasciatus	Ontario	36	GRVD	8/1/2023	WNV
San Bernardino	WVAL 4552	1337	Cx quinquefasciatus	Rancho Cucamonga	25	BGSENT	8/3/2023	WNV
San Bernardino	WVAL 4637	1278	Cx quinquefasciatus	Rancho Cucamonga	8	GRVD	8/2/2023	WNV
San Bernardino	WVAL 4721	1245	Cx quinquefasciatus	Chino	21	BGSENT	8/1/2023	WNV
San Bernardino	WVAL 4932	1291	Cx quinquefasciatus	Ontario	33	BGSENT	8/2/2023	WNV
San Bernardino	WVAL 4998	1374	Cx quinquefasciatus	Chino	48	BGSENT	8/4/2023	WNV
San Bernardino	WVAL 5009	1236	Cx quinquefasciatus	Rancho Cucamonga	19	GRVD	8/1/2023	WNV
San Bernardino	WVAL 5625	1343	Cx quinquefasciatus	Chino	50	BGSENT	8/3/2023	WNV
San Bernardino	WVAL 5625	1345	Cx quinquefasciatus	Chino	50	BGSENT	8/3/2023	WNV
San Bernardino	WVAL 5676	1340	Cx quinquefasciatus	Rancho Cucamonga	10	BGSENT	8/3/2023	WNV
San Bernardino	WVAL 5678	1339	Cx quinquefasciatus	Rancho Cucamonga	9	BGSENT	8/3/2023	WNV
San Bernardino	WVAL 6015	1226	Cx quinquefasciatus	Ontario	9	GRVD	8/1/2023	WNV
San Bernardino	WVAL 6053	1371	Cx quinquefasciatus	Ontario	22	BGSENT	8/4/2023	WNV
San Bernardino	WVAL 70	1279	Cx quinquefasciatus	Ontario	50	GRVD	8/2/2023	WNV
San Bernardino	WVAL 9005	1232	Cx quinquefasciatus	Upland	24	GRVD	8/1/2023	WNV
San Joaquin	SJCM 8004	1878	Cx tarsalis	Lodi	50	CO2	8/1/2023	WNV
San Joaquin	SJCM 8008	1908	Cx tarsalis	Manteca	40	CO2	8/1/2023	WNV
San Joaquin	SJCM 8011	1944	Cx tarsalis	Ripon	7	CO2	8/1/2023	WNV
San Joaquin	SJCM 8018	1959	Cx tarsalis	Stockton	100	CO2	8/2/2023	WNV
San Joaquin	SJCM 8018	1960	Cx tarsalis	Stockton	100	CO2	8/2/2023	WNV
San Joaquin	SJCM 8018	1961	Cx tarsalis	Stockton	100	CO2	8/2/2023	WNV
San Joaquin	SJCM 8018	1962	Cx tarsalis	Stockton	100	CO2	8/2/2023	WNV
San Joaquin	SJCM 8018	1963	Cx tarsalis	Stockton	100	CO2	8/2/2023	WNV
San Joaquin	SJCM 8022	1919	Cx tarsalis	Holt	50	CO2	8/1/2023	WNV
San Joaquin	SJCM 8022	1921	Cx tarsalis	Holt	50	CO2	8/1/2023	WNV
San Joaquin	SJCM 8029	1982	Cx pipiens	Farmington	100	CO2	8/3/2023	WNV
San Joaquin	SJCM 8056	1938	Cx tarsalis	Manteca	50	CO2	8/1/2023	WNV
San Joaquin	SJCM 8074	1966	Cx tarsalis	Morada	13	CO2	8/3/2023	WNV
San Joaquin	SJCM 8075	1973	Cx tarsalis	Lodi	23	CO2	8/3/2023	WNV
San Joaquin	SJCM 8083	1893	Cx tarsalis	Escalon	26	CO2	8/1/2023	WNV
San Joaquin	SJCM 8083	1894	Cx pipiens	Escalon	17	CO2	8/1/2023	WNV
San Joaquin	SJCM 8094	1912	Cx tarsalis	Manteca	50	CO2	8/1/2023	WNV
San Joaquin	SJCM 8094	1913	Cx tarsalis	Manteca	50	CO2	8/1/2023	WNV
San Joaquin	SJCM 8094	1914	Cx tarsalis	Manteca	50	CO2	8/1/2023	WNV
San Joaquin	SJCM 8094	1915	Cx tarsalis	Manteca	50	CO2	8/1/2023	WNV
San Joaquin	SJCM 8094	1916	Cx tarsalis	Manteca	23	CO2	8/1/2023	WNV
San Joaquin	SJCM 8111	1874	Cx tarsalis	Stockton	50	CO2	8/1/2023	WNV
San Joaquin	SJCM 8160	1932	Cx tarsalis	Lodi	11	CO2	8/1/2023	WNV
San Joaquin	SJCM 8161	1909	Cx tarsalis	Ripon	41	CO2	8/1/2023	WNV
San Joaquin	SJCM 8191	1882	Cx tarsalis	Lodi	14	CO2	8/1/2023	WNV
San Joaquin	SJCM 8198	1867	Cx tarsalis	Stockton	15	CO2	8/1/2023	WNV
San Joaquin	SJCM 8199	1934	Cx tarsalis	Manteca	50	CO2	8/1/2023	WNV
San Joaquin	SJCM 8199	1935	Cx tarsalis	Manteca	50	CO2	8/1/2023	WNV
San Joaquin	SJCM 8199	1936	Cx tarsalis	Manteca	20	CO2	8/1/2023	WNV
San Joaquin	SJCM 8199	1937	Cx pipiens	Manteca	5	CO2	8/1/2023	WNV
San Joaquin	SJCM 8203	1957	Cx tarsalis	Lodi	49	CO2	8/1/2023	WNV
San Joaquin	SJCM 8204	1899	Cx tarsalis	Stockton	100	CO2	8/1/2023	WNV
San Joaquin	SJCM 8204	1900	Cx tarsalis	Stockton	100	CO2	8/1/2023	WNV
San Joaquin	SJCM 8204	1901	Cx tarsalis	Stockton	100	CO2	8/1/2023	WNV
San Joaquin	SJCM 8204	1902	Cx tarsalis	Stockton	100	CO2	8/1/2023	WNV
San Joaquin	SJCM 8204	1903	Cx tarsalis	Stockton	100	CO2	8/1/2023	WNV
San Joaquin	SJCM 8204	1904	Cx pipiens	Stockton	45	CO2	8/1/2023	WNV
San Joaquin	SJCM 8206	1950	Cx tarsalis	Lodi	100	CO2	8/1/2023	WNV
San Joaquin	SJCM 8206	1951	Cx tarsalis	Lodi	100	CO2	8/1/2023	WNV
San Joaquin	SJCM 8206	1952	Cx tarsalis	Lodi	100	CO2	8/1/2023	WNV
San Joaquin	SJCM 8206	1953	Cx tarsalis	Lodi	100	CO2	8/1/2023	WNV



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San Joaquin	SJCM 8206	1954	Cx tarsalis	Lodi	100	CO2	8/1/2023	WNV
San Joaquin	SJCM 8206	1955	Cx pipiens	Lodi	45	CO2	8/1/2023	WNV
San Joaquin	SJCM 8210	1905	Cx tarsalis	Escalon	17	CO2	8/1/2023	WNV
San Joaquin	SJCM 8210	1906	Cx pipiens	Escalon	23	CO2	8/1/2023	WNV
San Joaquin	SJCM 8219	1868	Cx tarsalis	Stockton	50	CO2	8/1/2023	WNV
San Joaquin	SJCM 8233	1890	Cx tarsalis	Stockton	50	CO2	8/1/2023	WNV
San Joaquin	SJCM 8233	1891	Cx tarsalis	Stockton	34	CO2	8/1/2023	WNV
Shasta	SHAS 10020	1289	Cx pipiens	Anderson	13	CO2	8/1/2023	WNV
Shasta	SHAS 148	1282	Cx tarsalis	Cottonwood	19	CO2	8/1/2023	WNV
Shasta	SHAS 148	1283	Cx pipiens	Cottonwood	12	CO2	8/1/2023	WNV
Shasta	SHAS 177	1314	Cx pipiens	Redding	35	CO2	8/1/2023	WNV
Shasta	SHAS 204	1262	Cx tarsalis	Redding	44	CO2	7/27/2023	WNV
Shasta	SHAS 331	1333	Cx tarsalis	Millville	34	CO2	8/2/2023	WNV
Shasta	SHAS 555	1358	Cx tarsalis	Redding	24	CO2	8/2/2023	WNV
Shasta	SHAS 617	1270	Cx pipiens	Cottonwood	19	CO2	8/1/2023	WNV
Shasta	SHAS 618	1306	Cx pipiens	Anderson	36	CO2	8/1/2023	WNV
Shasta	SHAS 618	1310	Cx tarsalis	Anderson	13	CO2	8/1/2023	WNV
Shasta	SHAS 623	1341	Cx tarsalis	Redding	43	CO2	8/2/2023	WNV
Shasta	SHAS 628	1302	Cx pipiens	Anderson	50	CO2	8/1/2023	WNV
Shasta	SHAS 628	1303	Cx pipiens	Anderson	16	CO2	8/1/2023	WNV
Shasta	SHAS 629	1368	Cx tarsalis	Anderson	23	CO2	8/2/2023	WNV
Shasta	SHAS 629	1369	Cx pipiens	Anderson	50	CO2	8/2/2023	WNV
Shasta	SHAS 629	1371	Cx pipiens	Anderson	50	CO2	8/2/2023	WNV
Shasta	SHAS 634	1385	Cx tarsalis	Anderson	21	CO2	8/2/2023	WNV
Shasta	SHAS 634	1386	Cx pipiens	Anderson	50	CO2	8/2/2023	WNV
Shasta	SHAS 917	1296	Cx tarsalis	Redding	45	CO2	8/1/2023	WNV
Shasta	SHAS 918	1317	Cx tarsalis	Redding	30	CO2	8/1/2023	WNV
Shasta	SHAS 93	1398	Cx tarsalis	Anderson	30	CO2	8/2/2023	WNV
Shasta	SHAS 93	1399	Cx tarsalis	Anderson	30	CO2	8/2/2023	WNV
Shasta	SHAS 93	1400	Cx tarsalis	Anderson	45	CO2	8/2/2023	WNV
Stanislaus	EAST 1088	23148	Cx pipiens	Modesto	50	CO2	7/25/2023	WNV
Stanislaus	EAST 2023	23151	Cx pipiens	Modesto	17	GRVD	7/25/2023	WNV
Stanislaus	EAST 2044	23157	Cx pipiens	Modesto	14	GRVD	7/27/2023	WNV
Stanislaus	EAST 2053	23161	Cx pipiens	Modesto	19	GRVD	7/28/2023	WNV
Stanislaus	EAST 2054	23159	Cx pipiens	Modesto	28	GRVD	7/28/2023	WNV
Stanislaus	TRLK 1107	1171	Cx tarsalis	Denair	50	CO2	8/1/2023	WNV
Stanislaus	TRLK 1209	1148	Cx pipiens	Ceres	49	CO2	8/1/2023	WNV
Stanislaus	TRLK 1301	1143	Cx tarsalis	Denair	22	CO2	8/1/2023	WNV
Stanislaus	TRLK 1302	1144	Cx pipiens	Turlock	19	CO2	8/1/2023	WNV
Stanislaus	TRLK 1310	1145	Cx pipiens	Hughson	12	CO2	8/1/2023	WNV
Stanislaus	TRLK 17131	1170	Cx pipiens	Turlock	23	CO2	8/1/2023	WNV
Stanislaus	TRLK 17152	1166	Cx pipiens	Denair	50	CO2	8/1/2023	WNV
Stanislaus	TRLK 1905	1177	Cx pipiens	Denair	50	CO2	8/1/2023	WNV
Stanislaus	TRLK 23170	1133	Cx pipiens	Turlock	50	CO2	7/27/2023	WNV
Stanislaus	TRLK 23170	1134	Cx pipiens	Turlock	50	CO2	7/27/2023	WNV
Stanislaus	TRLK 23170	1135	Cx pipiens	Turlock	50	CO2	7/27/2023	WNV
Stanislaus	TRLK 23172	1136	Cx pipiens	Turlock	50	CO2	7/27/2023	WNV
Stanislaus	TRLK 23172	1137	Cx pipiens	Turlock	47	CO2	7/27/2023	WNV
Stanislaus	TRLK 432	1156	Cx pipiens	Turlock	50	CO2	8/1/2023	WNV
Stanislaus	TRLK 432	1160	Cx pipiens	Turlock	50	CO2	8/1/2023	WNV
Stanislaus	TRLK 432	1161	Cx pipiens	Turlock	50	CO2	8/1/2023	WNV
Stanislaus	TRLK 432	1162	Cx pipiens	Turlock	50	CO2	8/1/2023	WNV
Stanislaus	TRLK 432	1163	Cx tarsalis	Turlock	50	CO2	8/1/2023	WNV
Stanislaus	TRLK 432	1164	Cx tarsalis	Turlock	42	CO2	8/1/2023	WNV
Stanislaus	TRLK 526	1168	Cx pipiens	Denair	50	CO2	8/1/2023	WNV
Sutter	SUYA 132	404	Cx tarsalis	Live Oak	39	CO2	8/3/2023	WNV
Sutter	SUYA 132	405	Cx tarsalis	Live Oak	38	CO2	8/3/2023	WNV
Sutter	SUYA 15	417	Cx tarsalis	Robbins	50	CO2	8/1/2023	WNV
Sutter	SUYA 20	392	Cx tarsalis	Meridian	47	CO2	8/1/2023	WNV
Sutter	SUYA 30	421	Cx tarsalis	Live Oak	48	REST	7/31/2023	WNV
Sutter	SUYA 44	429	Cx tarsalis	Pleasant Grove	50	CO2	8/1/2023	WNV
Sutter	SUYA 5	402	Cx tarsalis	Live Oak	12	CO2	8/2/2023	WNV

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Sutter	SUYA 70	399	Cx tarsalis	Yuba City	50	CO2	8/1/2023	WNV
Sutter	SUYA 71	426	Cx tarsalis	Meridian	42	REST	8/1/2023	WNV
Tulare	DLTA 64073	4741	Cx quinquefasciatus	Dinuba	17	GRVD	7/27/2023	WNV
Tulare	DLTA 6408	4842	Cx quinquefasciatus	Dinuba	14	GRVD	8/1/2023	WNV
Tulare	DLTA 6408	4907	Cx quinquefasciatus	Dinuba	50	BGSENT	8/2/2023	WNV
Tulare	DLTA 6408	4908	Cx quinquefasciatus	Dinuba	10	BGSENT	8/2/2023	WNV
Tulare	DLTA 64161	4855	Cx quinquefasciatus	Dinuba	37	GRVD	8/1/2023	WNV
Tulare	DLTA 6417	4902	Cx quinquefasciatus	Dinuba	15	GRVD	8/2/2023	WNV
Tulare	DLTA 73161	4857	Cx quinquefasciatus	Traver	12	GRVD	8/1/2023	WNV
Tulare	DLTA 8324	4802	Cx quinquefasciatus	Goshen	50	BGSENT	7/28/2023	WNV
Tulare	DLTA 8413	4812	Cx quinquefasciatus	Visalia	50	BGSENT	8/1/2023	WNV
Tulare	DLTA 8413	4863	Cx quinquefasciatus	Visalia	41	BGSENT	8/2/2023	WNV
Tulare	DLTA 8413	4874	Cx quinquefasciatus	Visalia	50	BGSENT	8/2/2023	WNV
Tulare	DLTA 8414	4836	Cx quinquefasciatus	Visalia	50	BGSENT	8/1/2023	WNV
Tulare	DLTA 841543	4932	Cx quinquefasciatus	Visalia	50	CO2	8/2/2023	WNV
Tulare	DLTA 841543	4934	Cx quinquefasciatus	Visalia	50	CO2	8/2/2023	WNV
Tulare	DLTA 841543	4936	Cx quinquefasciatus	Visalia	50	CO2	8/2/2023	WNV
Tulare	DLTA 841543	4938	Cx quinquefasciatus	Visalia	50	CO2	8/2/2023	WNV
Tulare	DLTA 841543	4939	Cx quinquefasciatus	Visalia	50	CO2	8/2/2023	WNV
Tulare	DLTA 841543	4942	Cx quinquefasciatus	Visalia	50	CO2	8/2/2023	WNV
Tulare	DLTA 841621	4789	Cx quinquefasciatus	Visalia	50	CO2	7/28/2023	WNV
Tulare	DLTA 841631	4916	Cx quinquefasciatus	Visalia	50	CO2	8/2/2023	WNV
Tulare	DLTA 841631	4924	Cx quinquefasciatus	Visalia	50	CO2	8/2/2023	WNV
Tulare	DLTA 842122	4781	Cx quinquefasciatus	Visalia	50	CO2	7/28/2023	WNV
Tulare	DLTA 842132	4892	Cx quinquefasciatus	Visalia	50	CO2	8/2/2023	WNV
Tulare	DLTA 8422	4828	Cx quinquefasciatus	Goshen	50	BGSENT	8/1/2023	WNV
Tulare	DLTA 84231	4822	Cx quinquefasciatus	Visalia	50	BGSENT	8/1/2023	WNV
Tulare	DLTA 84231	4824	Cx quinquefasciatus	Visalia	50	BGSENT	8/1/2023	WNV
Tulare	DLTA 8424	4840	Cx quinquefasciatus	Visalia	14	BGSENT	8/1/2023	WNV
Tulare	DLTA 8424	4870	Cx quinquefasciatus	Visalia	12	BGSENT	8/2/2023	WNV
Tulare	DLTA 843232	4897	Cx quinquefasciatus	Visalia	50	CO2	8/2/2023	SLEV
Tulare	DLTA 84341	4901	Cx quinquefasciatus	Visalia	15	CO2	8/2/2023	WNV
Tulare	DLTA 8512	4858	Cx quinquefasciatus	Ivanhoe	17	GRVD	8/1/2023	WNV
Tulare	DLTA 8520	4882	Cx quinquefasciatus	Visalia	50	GRVD	8/2/2023	WNV
Tulare	DLTA 8520	4883	Cx quinquefasciatus	Visalia	19	GRVD	8/2/2023	WNV
Tulare	DLTA 8533	4891	Cx quinquefasciatus	Visalia	22	GRVD	8/2/2023	WNV
Tulare	DLTA 8534	4868	Cx quinquefasciatus	Visalia	10	GRVD	8/2/2023	WNV
Tulare	DLTA 9512	4884	Cx quinquefasciatus	Farmersville	50	GRVD	8/2/2023	WNV
Tulare	DLTA 9606	4798	Cx quinquefasciatus	Farmersville	16	GRVD	7/28/2023	WNV
Tulare	DLTA 9607	4809	Cx quinquefasciatus	Farmersville	14	BGSENT	8/1/2023	WNV
Tulare	DLTA 96104	4888	Cx quinquefasciatus	Exeter	10	GRVD	8/2/2023	WNV
Tulare	DLTA 96104	4889	Cx stigmatosoma	Exeter	16	GRVD	8/2/2023	WNV
Ventura	GRLA 2822	5509	Cx quinquefasciatus	West Hills	16	GRVD	7/27/2023	WNV
Yolo	SAYO 103007	4173	Cx pipiens	Dunnigan	8	CO2	8/1/2023	WNV
Yolo	SAYO 103007	4174	Cx tarsalis	Dunnigan	50	CO2	8/1/2023	WNV
Yolo	SAYO 103012	4064	Cx pipiens	Woodland	14	CO2	8/1/2023	WNV
Yolo	SAYO 103012	4068	Cx tarsalis	Woodland	5	GRVD	8/1/2023	WNV
Yolo	SAYO 115008	4163	Cx tarsalis	Woodland	50	CO2	8/1/2023	WNV
Yolo	SAYO 125011	3999	Cx pipiens	Woodland	12	CO2	8/1/2023	WNV
Yolo	SAYO 125016	4016	Cx tarsalis	Woodland	32	CO2	8/1/2023	WNV
Yolo	SAYO 125016	4018	Cx tarsalis	Woodland	5	GRVD	8/1/2023	WNV
Yolo	SAYO 125016	4302	Cx pipiens	Woodland	8	GRVD	8/4/2023	WNV
Yolo	SAYO 125030	3998	Cx pipiens	Woodland	18	GRVD	8/1/2023	WNV
Yolo	SAYO 125030	4280	Cx tarsalis	Woodland	18	CO2	8/4/2023	WNV
Yolo	SAYO 125033	3990	Cx tarsalis	Woodland	50	CO2	8/1/2023	WNV
Yolo	SAYO 125033	3993	Cx tarsalis	Woodland	47	CO2	8/1/2023	WNV
Yolo	SAYO 135005	4284	Cx tarsalis	Woodland	50	CO2	8/4/2023	WNV
Yolo	SAYO 135020	3974	Cx tarsalis	Woodland	50	CO2	8/1/2023	WNV
Yolo	SAYO 135020	3977	Cx tarsalis	Woodland	50	CO2	8/1/2023	WNV
Yolo	SAYO 135020	4294	Cx tarsalis	Woodland	50	CO2	8/4/2023	WNV
Yolo	SAYO 135020	4297	Cx tarsalis	Woodland	50	CO2	8/4/2023	WNV
Yolo	SAYO 145003	4304	Cx tarsalis	Davis	18	CO2	8/4/2023	WNV

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Yolo	SAYO 145005	4088	Cx tarsalis	Davis	50	CO2	8/1/2023	WNV
Yolo	SAYO 145005	4091	Cx tarsalis	Davis	50	CO2	8/1/2023	WNV
Yolo	SAYO 145005	4092	Cx tarsalis	Davis	50	CO2	8/1/2023	WNV
Yolo	SAYO 145016	4061	Cx tarsalis	Davis	29	CO2	8/1/2023	WNV
Yolo	SAYO 145024	4116	Cx tarsalis	Davis	21	CO2	8/1/2023	WNV
Yolo	SAYO 146	4009	Cx tarsalis	Woodland	50	CO2	8/1/2023	WNV
Yolo	SAYO 146	4010	Cx tarsalis	Woodland	50	CO2	8/1/2023	WNV
Yolo	SAYO 146	4012	Cx tarsalis	Woodland	50	CO2	8/1/2023	WNV
Yolo	SAYO 146	4266	Cx tarsalis	Woodland	50	CO2	8/4/2023	WNV
Yolo	SAYO 146012	4078	Cx tarsalis	Davis	10	CO2	8/1/2023	WNV
Yolo	SAYO 147007	4102	Cx tarsalis	West Sacramento	50	CO2	8/1/2023	WNV
Yolo	SAYO 147007	4105	Cx tarsalis	West Sacramento	50	CO2	8/1/2023	WNV
Yolo	SAYO 147010	4056	Cx tarsalis	West Sacramento	38	CO2	8/1/2023	WNV
Yolo	SAYO 337415	4069	Cx pipiens	Davis	3	CO2	8/1/2023	WNV
Yolo	SAYO 337415	4071	Cx tarsalis	Davis	32	CO2	8/1/2023	WNV
Yolo	SAYO 337415	4344	Cx pipiens	Davis	2	GRVD	8/4/2023	WNV
Yolo	SAYO 337415	4347	Cx tarsalis	Davis	14	CO2	8/4/2023	WNV
Yolo	SAYO 412127	4124	Cx pipiens	West Sacramento	37	GRVD	8/1/2023	WNV
Yuba	SUYA 108	396	Cx tarsalis	Plumas Lake	33	CO2	8/1/2023	WNV
Yuba	SUYA 37	409	Cx tarsalis	Marysville	43	CO2	8/3/2023	WNV
Yuba	SUYA 39	413	Cx tarsalis	Marysville	39	CO2	8/3/2023	WNV
Yuba	SUYA 39	414	Cx tarsalis	Marysville	39	CO2	8/3/2023	WNV
Yuba	SUYA 55	403	Cx tarsalis	Linda	33	CO2	8/2/2023	WNV

### Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Merced	MERC 6	Merced	7/28/2023	WNV	2625	2628	2629	2630
Merced	MERC 2	South Dos Palos	7/28/2023	WNV	2613	2614	2618	
Merced	MERC 501	Merced	7/28/2023	WNV	2637	2640		
Merced	MERC 502	Hilmar	7/28/2023	WNV	2603	2605		
Merced	MERC 1302	Los Banos	7/28/2023	WNV	2633	2636		
Merced	MERC 1	Merced	7/28/2023	WNV	2619			

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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).

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#### **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.

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#### **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.

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#### **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.

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*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)