

## California Arbovirus Surveillance Bulletin #16

Week 30 Friday, July 28, 2023



### WEEKLY UPDATE

#### **Humans**

##### West Nile virus

A single (1) human case of West Nile virus (WNV) has been reported from Tulare County. In 2023, 2 human cases of WNV have been reported from 1 county. In addition, one asymptomatic WNV-positive blood donor has been reported from Butte County. 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) have been 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 12 counties: Contra Costa (1), El Dorado (1), Lake (1), Placer (3), Riverside (2), Sacramento (18), San Joaquin (1), San Mateo (1), Santa Clara (1), Sutter (2), Tulare (1) and Yolo (2). **This is the first detection of WNV activity in El Dorado and San Mateo counties and the first detection of a WNV positive bird in Lake County this year.** In 2023, 147 WNV positive dead birds have been reported from 17 counties. At this time last year, 49 WNV positive dead birds had been reported from 12 counties.

#### **Mosquito Pools**

##### West Nile virus

A total of 398 new WNV positive mosquito pools were identified from 21 counties: Butte (9), Fresno (13), Imperial (1), Kern (11), Kings (14), Los Angeles (19), Madera (9), Napa (2), Placer (22), Riverside (6), Sacramento (25), San Bernardino (14), San Joaquin (65), Santa Clara (1), Shasta (16), Solano (7), Stanislaus (20), Sutter (7), Tulare (46), Yolo (85), and Yuba (6). **This is the first detection of WNV activity in Imperial and Napa counties and the first detection of a WNV positive mosquito pool in Santa Clara County this year.** In 2023, 1,225 WNV positive mosquito pools have been reported from 25 counties. At this time last year, 702 WNV positive mosquito pools had been reported from 22 counties.

##### St. Louis encephalitis virus

A total of 26 new SLEV positive mosquito pools were identified from 6 counties: Fresno (2), Kern (7), Kings (2), Riverside (13), Stanislaus (1), and Tulare (1). **This is the first detection of SLEV activity in Stanislaus County this year.** In 2023, 137 SLEV positive mosquito pools have been reported from 8 counties. At this time last year, 9 SLEV positive pools had been reported from 4 counties.

#### **Sentinel Chickens**

A total of 8 WNV positive chickens were reported this week from 3 counties: Butte (4), Sutter (2) and Tulare (2). **These are the first WNV positive chickens reported from Butte, Sutter, and Tulare counties this year.** In 2023, 13 WNV positive chickens have been reported from 4 counties. At this time last year, 2 WNV positive chickens had been reported from 2 counties.

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<b>2022 &amp; 2023 YTD West Nile Virus Comparisons</b>		
	<b>2022</b>	<b>2023</b>
Total No. Dead Bird Reports	2,906	3,389
No. Positive Counties	23	28
No. Human Cases	7	2
No. Positive Dead Birds / No. Tested	49 / 745	147 / 844
No. Positive Mosquito Pools / No. Tested	702 / 17,315	1,225 / 26,685
No. Seroconversions / No. Tested	2 / 2,523	13 / 1,986

<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			3	4	
Butte				14	4
Contra Costa			2	2	
El Dorado			1		
Fresno				37	
Imperial				1	
Kern		1		27	
Kings				33	
Lake			1	2	
Los Angeles			10	64	
Madera				20	
Merced				6	5
Napa				2	
Placer			13	87	
Riverside			6	11	
Sacramento			70	121	
San Bernadino				21	
San Joaquin			9	219	
San Mateo			1		
Santa Clara			15	1	
Shasta				23	
Solano			1	12	
Stanislaus			1	77	
Sutter			2	33	2
Tulare	2		4	241	2
Ventura			3		
Yolo			5	156	
Yuba				11	
<b>Totals</b>	<b>2</b>	<b>1</b>	<b>147</b>	<b>1,225</b>	<b>13</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		15	
Imperial		1	
Kern	1	17	
Kings		4	
Riverside		90	
San Joaquin		1	
Stanislaus		1	
Tulare		8	
Totals	1	137	0

### TESTING SUMMARIES

		WNV	SLEV	WEEV
<b>Human Cases</b>	Week	1	0	0
	YTD	2	1	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
<b>Dead Birds</b>	Week	34 / 100					
	YTD	147 / 844					
<b>Chicken Sera</b>	Week	8 / 254	0 / 254	0 / 254			
	YTD	13 / 1,986	0 / 1,986	0 / 1,986			
<b>Mosquito Pools</b>	Week	398 / 2,342	26 / 26,188	0 / 2,312	0 / 66	0 / 66	0 / 66
	YTD	1,225 / 26,685	137 / 23,874	0 / 26,183	0 / 286	0 / 286	0 / 286

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### NEW POSITIVES

#### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Contra Costa	Contra Costa MVCD	Martinez	94553	American Crow	7/24/2023	WNV
El Dorado	El Dorado Co Env Management	Lotus	95651	House Finch	7/21/2023	WNV
Lake	Lake Co VCD	Cobb	95426	Acorn Woodpecker	7/25/2023	WNV
Placer	Placer MVCD	Foresthill	95631	Anna's Hummingbird	7/20/2023	WNV
Placer	Placer MVCD	Roseville	95747	California Towhee	7/24/2023	WNV
Placer	Placer MVCD	Roseville	95747	House Finch	7/22/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/19/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	7/19/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Antelope	95843	California Scrub-Jay	7/19/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Antelope	95843	California Scrub-Jay	7/22/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	California Scrub-Jay	7/23/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	California Scrub-Jay	7/26/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Mourning Dove	7/25/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	7/19/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	7/24/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95757	American Crow	7/26/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Elverta	95626	California Scrub-Jay	7/25/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Folsom	95630	American Crow	7/20/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	American Crow	7/19/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95819	American Crow	7/22/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	American Crow	7/24/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	American Crow	7/24/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	House Sparrow	7/25/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95816	Lesser Goldfinch	7/24/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95824	Mourning Dove	7/25/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	Northern Mockingbird	7/25/2023	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95212	California Scrub-Jay	7/20/2023	WNV
San Mateo	San Mateo Co MVCD	Redwood Shores	94065	American Crow	7/18/2023	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	7/18/2023	WNV
Sutter	Sutter-Yuba MVCD	Live Oak	95953	Cooper's Hawk	7/19/2023	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95993	California Scrub-Jay	7/18/2023	WNV
Tulare	Delta MVCD	Visalia	93291	California Scrub-Jay	7/21/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Barn Owl	7/25/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	California Scrub-Jay	7/23/2023	WNV

#### Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus
Butte	BUCO 184	301	Cx tarsalis	Gridley	50	CO2	7/18/2023	WNV
Butte	BUCO 184	302	Cx tarsalis	Gridley	50	CO2	7/18/2023	WNV
Butte	BUCO 184	303	Cx tarsalis	Gridley	50	CO2	7/18/2023	WNV
Butte	BUCO 185	282	Cx tarsalis	Gridley	50	CO2	7/17/2023	WNV
Butte	BUCO 34	309	Cx tarsalis	Richvale	50	CO2	7/19/2023	WNV
Butte	BUCO 34	310	Cx tarsalis	Richvale	50	CO2	7/19/2023	WNV
Butte	BUCO 34	311	Cx tarsalis	Richvale	50	CO2	7/19/2023	WNV
Butte	BUCO 36	293	Cx tarsalis	Gridley	50	CO2	7/18/2023	WNV
Butte	BUCO 71	304	Cx tarsalis	Chico	50	CO2	7/18/2023	WNV
Fresno	CNSL 2005	167	Cx tarsalis	Sanger	50	CO2	7/18/2023	WNV
Fresno	CNSL 2070	189	Cx quinquefasciatus	Sanger	50	GRVD	7/21/2023	WNV
Fresno	CNSL 2072	191	Cx quinquefasciatus	Sanger	50	GRVD	7/21/2023	WNV
Fresno	CNSL 2365	166	Cx tarsalis	Sanger	48	GRVD	7/18/2023	WNV
Fresno	CNSL 2365	166	Cx tarsalis	Sanger	48	GRVD	7/18/2023	SLEV
Fresno	CNSL 2463	190	Cx quinquefasciatus	Sanger	50	GRVD	7/21/2023	WNV
Fresno	CNSL 2464	644	Cx quinquefasciatus	Sanger	50	GRVD	7/21/2023	WNV
Fresno	CNSL 2685	660	Cx quinquefasciatus	Sanger	50	CO2	7/21/2023	WNV
Fresno	CNSL 3502	185	Cx stigmatosoma	Orange Cove	23	GRVD	7/19/2023	WNV
Fresno	CNSL 4070	175	Cx quinquefasciatus	Selma	50	GRVD	7/18/2023	WNV
Fresno	CNSL 4095	187	Cx quinquefasciatus	Selma	45	GRVD	7/21/2023	WNV
Fresno	CNSL 8192	169	Cx stigmatosoma	Fresno	50	GRVD	7/18/2023	WNV

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Fresno	CNSL 9102	176	Cx quinquefasciatus	Clovis	46	GRVD	7/19/2023	WNV
Fresno	FRNO 207	651	Cx quinquefasciatus	Fresno	50	GRVD	7/20/2023	SLEV
Fresno	FRWS 5110	269	Cx tarsalis	Tranquillity	19	CO2	7/25/2023	WNV
Imperial	IMPR 130	104	Cx quinquefasciatus	Imperial	8	BGSENT	7/24/2023	WNV
Kern	DLNO 79	205	Cx quinquefasciatus	Mcfarland	50	BGSENT	7/19/2023	WNV
Kern	DLNO 79	205	Cx quinquefasciatus	Mcfarland	50	BGSENT	7/19/2023	SLEV
Kern	DLNO 79	206	Cx tarsalis	Mcfarland	50	BGSENT	7/19/2023	WNV
Kern	DLNO 79	206	Cx tarsalis	Mcfarland	50	BGSENT	7/19/2023	SLEV
Kern	DLNO 79	220	Cx quinquefasciatus	Mcfarland	50	BGSENT	7/26/2023	SLEV
Kern	KERN 1114	1064	Cx tarsalis	Bakersfield	50	CO2	7/18/2023	WNV
Kern	KERN 14	1085	Cx quinquefasciatus	Bakersfield	36	GRVD	7/21/2023	SLEV
Kern	KERN 2000	1067	Cx tarsalis	Bakersfield	33	CO2	7/19/2023	WNV
Kern	KERN 2018	1086	Cx quinquefasciatus	Bakersfield	50	GRVD	7/21/2023	SLEV
Kern	KERN 2019	1089	Cx quinquefasciatus	Bakersfield	23	GRVD	7/21/2023	WNV
Kern	KERN 2027	1053	Cx tarsalis	Bakersfield	24	CO2	7/18/2023	WNV
Kern	KERN 36	1062	Cx tarsalis	Bakersfield	50	CO2	7/18/2023	WNV
Kern	KERN 43	1075	Cx quinquefasciatus	Shafter	20	CO2	7/20/2023	WNV
Kern	KERN 50	1080	Cx tarsalis	Bakersfield	34	CO2	7/20/2023	WNV
Kern	KERN 9	1069	Cx tarsalis	Bakersfield	50	CO2	7/19/2023	WNV
Kern	KERN 9	1069	Cx tarsalis	Bakersfield	50	CO2	7/19/2023	SLEV
Kern	KERN 92	1082	Cx tarsalis	Bakersfield	50	CO2	7/20/2023	WNV
Kern	WEST 6306	42	Cx tarsalis	Buttonwillow	10	CO2	7/26/2023	SLEV
Kings	CNSL 5193	172	Cx quinquefasciatus	Kingsburg	50	GRVD	7/18/2023	WNV
Kings	KNGS 3019	322	Cx tarsalis	Stratford	50	CO2	7/20/2023	WNV
Kings	KNGS 3019	323	Cx tarsalis	Stratford	37	CO2	7/20/2023	WNV
Kings	KNGS 3045	308	Cx tarsalis	Hanford	16	CO2	7/18/2023	SLEV
Kings	KNGS 3077	311	Cx tarsalis	Hanford	50	CO2	7/18/2023	WNV
Kings	KNGS 3115	325	Cx tarsalis	Hanford	50	CO2	7/21/2023	WNV
Kings	KNGS 3115	326	Cx tarsalis	Hanford	50	CO2	7/21/2023	WNV
Kings	KNGS 3115	327	Cx pipiens	Hanford	24	CO2	7/21/2023	WNV
Kings	KNGS 3122	318	Cx tarsalis	Hanford	50	CO2	7/20/2023	WNV
Kings	KNGS 3128	313	Cx tarsalis	Island	46	CO2	7/19/2023	WNV
Kings	KNGS 3128	313	Cx tarsalis	Island	46	CO2	7/19/2023	SLEV
Kings	KNGS 3135	329	Cx tarsalis	Hanford	50	CO2	7/21/2023	WNV
Kings	KNGS 3135	331	Cx pipiens	Hanford	39	CO2	7/21/2023	WNV
Kings	KNGS 3136	332	Cx tarsalis	Hanford	50	CO2	7/21/2023	WNV
Kings	KNGS 3136	333	Cx tarsalis	Hanford	50	CO2	7/21/2023	WNV
Kings	KNGS 3140	309	Cx tarsalis	Hardwick	50	CO2	7/18/2023	WNV
Los Angeles	GRLA 2093	467	Cx quinquefasciatus	South Gate	24	GRVD	7/21/2023	WNV
Los Angeles	GRLA 2270	464	Cx quinquefasciatus	Bellflower	45	GRVD	7/21/2023	WNV
Los Angeles	GRLA 2278	447	Cx quinquefasciatus	Long Beach	50	GRVD	7/19/2023	WNV
Los Angeles	GRLA 2800	450	Cx quinquefasciatus	Long Beach	50	BGSENT	7/19/2023	WNV
Los Angeles	GRLA 2936	5474	Cx quinquefasciatus	Burbank	50	GRVD	7/20/2023	WNV
Los Angeles	GRLA 2937	5472	Cx quinquefasciatus	Burbank	50	GRVD	7/20/2023	WNV
Los Angeles	SGVA 1000	369	Cx quinquefasciatus	Azusa	50	GRVD	7/27/2023	WNV
Los Angeles	SGVA 1006	340	Cx quinquefasciatus	Walnut	50	GRVD	7/25/2023	WNV
Los Angeles	SGVA 1281	374	Cx quinquefasciatus	Covina	50	GRVD	7/27/2023	WNV
Los Angeles	SGVA 1290	372	Cx quinquefasciatus	Covina	26	GRVD	7/27/2023	WNV
Los Angeles	SGVA 313	350	Cx quinquefasciatus	Pasadena	50	GRVD	7/25/2023	WNV
Los Angeles	SGVA 469	346	Cx quinquefasciatus	Pomona	50	GRVD	7/25/2023	WNV
Los Angeles	SGVA 62	367	Cx quinquefasciatus	Covina	33	GRVD	7/27/2023	WNV
Los Angeles	SGVA 64	341	Cx quinquefasciatus	West Covina	50	GRVD	7/25/2023	WNV
Los Angeles	SGVA 64	368	Cx quinquefasciatus	West Covina	50	GRVD	7/27/2023	WNV
Los Angeles	SGVA 875	344	Cx quinquefasciatus	Walnut	50	GRVD	7/25/2023	WNV
Los Angeles	SGVA 956	343	Cx quinquefasciatus	Walnut	50	GRVD	7/25/2023	WNV
Los Angeles	SGVA 972	375	Cx quinquefasciatus	Covina	50	GRVD	7/27/2023	WNV
Los Angeles	SGVA 996	354	Cx quinquefasciatus	South Pasadena	50	GRVD	7/25/2023	WNV
Madera	MADR 195	96	Cx tarsalis	Madera	50	CO2	7/14/2023	WNV
Madera	MADR 227	82	Cx tarsalis	Madera	50	CO2	7/13/2023	WNV
Madera	MADR 309	79	Cx quinquefasciatus	Madera	50	CO2	7/13/2023	WNV
Madera	MADR 311	111	Cx quinquefasciatus	Madera	18	CO2	7/18/2023	WNV
Madera	MADR 3334	66	Cx quinquefasciatus	Madera	50	CO2	7/13/2023	WNV
Madera	MADR 3334	85	Cx quinquefasciatus	Madera	50	CO2	7/13/2023	WNV
Madera	MADR 3334	86	Cx tarsalis	Madera	50	CO2	7/13/2023	WNV
Madera	MADR 581	113	Cx tarsalis	Madera	50	CO2	7/18/2023	WNV
Madera	MADR 688	118	Cx quinquefasciatus	Madera	50	CO2	7/18/2023	WNV
Napa	NAPA 3031	162	Cx tarsalis	Calistoga	47	CO2	7/19/2023	WNV
Napa	NAPA 3032	168	Cx tarsalis	Napa	22	CO2	7/21/2023	WNV
Placer	PLCR 1113	845	Cx tarsalis	Pleasant Grove	50	CO2	7/25/2023	WNV



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Placer	PLCR 1113	846	Cx tarsalis	Pleasant Grove	50	CO2	7/25/2023	WNV
Placer	PLCR 1113	848	Cx tarsalis	Pleasant Grove	50	CO2	7/25/2023	WNV
Placer	PLCR 1114	830	Cx tarsalis	Lincoln	50	CO2	7/25/2023	WNV
Placer	PLCR 1114	831	Cx tarsalis	Lincoln	50	CO2	7/25/2023	WNV
Placer	PLCR 1114	832	Cx tarsalis	Lincoln	50	CO2	7/25/2023	WNV
Placer	PLCR 191218	825	Cx tarsalis	Roseville	48	CO2	7/25/2023	WNV
Placer	PLCR 191373	850	Cx tarsalis	Unknown	50	CO2	7/25/2023	WNV
Placer	PLCR 191373	851	Cx tarsalis	Unknown	50	CO2	7/25/2023	WNV
Placer	PLCR 194232	840	Cx tarsalis	Pleasant Grove	50	CO2	7/25/2023	WNV
Placer	PLCR 198710	829	Cx tarsalis	Lincoln	23	CO2	7/25/2023	WNV
Placer	PLCR 25	853	Cx tarsalis	Lincoln	50	CO2	7/25/2023	WNV
Placer	PLCR 25	854	Cx tarsalis	Lincoln	50	CO2	7/25/2023	WNV
Placer	PLCR 25	855	Cx tarsalis	Lincoln	50	CO2	7/25/2023	WNV
Placer	PLCR 30	869	Cx tarsalis	Lincoln	23	CO2	7/27/2023	WNV
Placer	PLCR 30	870	Cx erythrothorax	Lincoln	3	CO2	7/27/2023	WNV
Placer	PLCR 516	812	Cx tarsalis	Roseville	36	CO2	7/25/2023	WNV
Placer	PLCR 525	818	Cx pipiens	Lincoln	47	CO2	7/25/2023	WNV
Placer	PLCR 525	819	Cx tarsalis	Lincoln	50	CO2	7/25/2023	WNV
Placer	PLCR 678519	834	Cx tarsalis	Elverta	50	CO2	7/25/2023	WNV
Placer	PLCR 678519	835	Cx tarsalis	Elverta	50	CO2	7/25/2023	WNV
Placer	PLCR 864346	883	Cx pipiens	Roseville	1	CO2	7/27/2023	WNV
Riverside	COAV 0	3892	Cx tarsalis	Indio	27	CO2	7/21/2023	SLEV
Riverside	COAV 0	3918	Cx quinquefasciatus	Indio	13	CO2	7/28/2023	SLEV
Riverside	COAV 121	3898	Cx tarsalis	Mecca	50	CO2	7/25/2023	SLEV
Riverside	COAV 122	3551	Cx tarsalis	Mecca	43	CO2	7/25/2023	WNV
Riverside	COAV 130	3909	Cx tarsalis	Oasis	50	CO2	7/25/2023	SLEV
Riverside	COAV 130	3910	Cx tarsalis	Oasis	50	CO2	7/25/2023	SLEV
Riverside	COAV 5	3906	Cx tarsalis	Oasis	50	CO2	7/25/2023	SLEV
Riverside	COAV 5	3907	Cx tarsalis	Oasis	50	CO2	7/25/2023	SLEV
Riverside	COAV 5	3908	Cx tarsalis	Oasis	50	CO2	7/25/2023	SLEV
Riverside	COAV 51	3840	Cx tarsalis	North Shore	5	CO2	7/25/2023	WNV
Riverside	COAV 531	3904	Cx quinquefasciatus	Mecca	50	CO2	7/25/2023	WNV
Riverside	COAV 531	4005	Cx quinquefasciatus	Mecca	50	CO2	7/28/2023	SLEV
Riverside	COAV 54	3900	Cx tarsalis	North Shore	22	CO2	7/25/2023	SLEV
Riverside	COAV 56	3843	Cx tarsalis	North Shore	50	CO2	7/25/2023	SLEV
Riverside	COAV 56	3890	Cx tarsalis	North Shore	50	CO2	7/21/2023	SLEV
Riverside	COAV 58	3845	Cx tarsalis	North Shore	50	CO2	7/25/2023	SLEV
Riverside	COAV 821	3775	Cx quinquefasciatus	Palm Springs	19	BGSENT	7/19/2023	WNV
Riverside	RIVR 141	206	Cx tarsalis	Nuevo	50	CO2	7/19/2023	WNV
Riverside	RIVR 7	198	Cx tarsalis	Nuevo	10	CO2	7/19/2023	WNV
Sacramento	SAYO 204020	3633	Cx tarsalis	Sacramento	1	CO2	7/25/2023	WNV
Sacramento	SAYO 204051	3470	Cx tarsalis	Citrus Heights	32	CO2	7/21/2023	WNV
Sacramento	SAYO 212004	3710	Cx pipiens	Sacramento	11	CO2	7/25/2023	WNV
Sacramento	SAYO 213048	3630	Cx pipiens	Sacramento	42	GRVD	7/25/2023	WNV
Sacramento	SAYO 215020	3423	Cx pipiens	Fair Oaks	45	CO2	7/21/2023	WNV
Sacramento	SAYO 215020	3425	Cx pipiens	Fair Oaks	14	GRVD	7/21/2023	WNV
Sacramento	SAYO 222032	3684	Cx pipiens	Sacramento	17	CO2	7/25/2023	WNV
Sacramento	SAYO 222032	3686	Cx pipiens	Sacramento	35	GRVD	7/25/2023	WNV
Sacramento	SAYO 223006	3669	Cx tarsalis	South Watt Avenue	13	CO2	7/25/2023	WNV
Sacramento	SAYO 223017	3569	Cx tarsalis	Sacramento	41	CO2	7/25/2023	WNV
Sacramento	SAYO 223048	3690	Cx pipiens	Sacramento	15	GRVD	7/25/2023	WNV
Sacramento	SAYO 232001	3700	Cx tarsalis	Sacramento	32	CO2	7/25/2023	WNV
Sacramento	SAYO 232029	3401	Cx pipiens	Elk Grove	20	GRVD	7/21/2023	WNV
Sacramento	SAYO 233015	3660	Cx pipiens	Sacramento	32	GRVD	7/25/2023	WNV
Sacramento	SAYO 233116	3605	Cx tarsalis	Sacramento	13	CO2	7/25/2023	WNV
Sacramento	SAYO 234013	3653	Cx pipiens	Elk Grove	27	GRVD	7/25/2023	WNV
Sacramento	SAYO 242004	3442	Cx tarsalis	Elk Grove	50	CO2	7/21/2023	WNV
Sacramento	SAYO 243026	3492	Cx tarsalis	Elk Grove	50	CO2	7/21/2023	WNV
Sacramento	SAYO 243028	3387	Cx pipiens	Elk Grove	5	GRVD	7/21/2023	WNV
Sacramento	SAYO 400346	3484	Cx pipiens	Sacramento	19	BGSENT	7/21/2023	WNV
Sacramento	SAYO 400346	3510	Cx tarsalis	Sacramento	8	BGSENT	7/21/2023	WNV
Sacramento	SAYO 401013	3506	Cx tarsalis	Sacramento	14	BGSENT	7/24/2023	WNV
Sacramento	SAYO 411984	3462	Cx pipiens	Orangevale	31	GRVD	7/21/2023	WNV
Sacramento	SAYO 412082	3301	Cx pipiens	Fair Oaks	3	BGSENT	7/20/2023	WNV
Sacramento	SAYO 412162	3786	Cx tarsalis	Carmichael	1	BGSENT	7/26/2023	WNV
San Bernardino	SANB 13	198	Cx quinquefasciatus	Highland	24	CO2	7/13/2023	WNV
San Bernardino	SANB 332	192	Cx quinquefasciatus	Fontana	45	CO2	7/13/2023	WNV
San Bernardino	SANB 452	210	Cx quinquefasciatus	Rialto	14	CO2	7/20/2023	WNV
San Bernardino	WVAL 1008	1156	Cx quinquefasciatus	Ontario	50	CO2	7/26/2023	WNV

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San Bernardino	WVAL 1060	1079	Cx quinquefasciatus	Ontario	10	BGSENT	7/21/2023	WNV
San Bernardino	WVAL 1082	1214	Cx quinquefasciatus	Chino	50	BGSENT	7/28/2023	WNV
San Bernardino	WVAL 3970	1109	Cx quinquefasciatus	Chino	12	BGSENT	7/25/2023	WNV
San Bernardino	WVAL 4505	1154	Cx quinquefasciatus	Ontario	9	GRVD	7/26/2023	WNV
San Bernardino	WVAL 4568	1098	Cx quinquefasciatus	Upland	16	GRVD	7/25/2023	WNV
San Bernardino	WVAL 4613	1126	Cx quinquefasciatus	Upland	50	GRVD	7/25/2023	WNV
San Bernardino	WVAL 4721	1081	Cx quinquefasciatus	Chino	37	BGSENT	7/25/2023	WNV
San Bernardino	WVAL 5456	1189	Cx quinquefasciatus	Chino	37	BGSENT	7/27/2023	WNV
San Bernardino	WVAL 5587	1178	Cx quinquefasciatus	Rancho Cucamonga	26	BGSENT	7/27/2023	WNV
San Bernardino	WVAL 70	1158	Cx quinquefasciatus	Ontario	41	GRVD	7/26/2023	WNV
San Joaquin	SJCM 2151	1745	Cx tarsalis	Tracy	8	CO2	7/25/2023	WNV
San Joaquin	SJCM 8003	1728	Cx tarsalis	Tracy	51	CO2	7/25/2023	WNV
San Joaquin	SJCM 8008	1753	Cx tarsalis	Manteca	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8010	1716	Cx pipiens	Ripon	12	CO2	7/25/2023	WNV
San Joaquin	SJCM 8018	1819	Cx tarsalis	Stockton	100	CO2	7/25/2023	WNV
San Joaquin	SJCM 8027	1719	Cx tarsalis	Stockton	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8041	1776	Cx tarsalis	Lodi	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8041	1777	Cx tarsalis	Lodi	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8041	1778	Cx tarsalis	Lodi	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8041	1780	Cx pipiens	Lodi	28	CO2	7/25/2023	WNV
San Joaquin	SJCM 8045	1783	Cx tarsalis	Thornton	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8045	1784	Cx tarsalis	Thornton	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8045	1785	Cx tarsalis	Thornton	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8045	1786	Cx pipiens	Thornton	6	CO2	7/25/2023	WNV
San Joaquin	SJCM 8074	1838	Cx tarsalis	Morada	28	CO2	7/27/2023	WNV
San Joaquin	SJCM 8076	1735	Cx tarsalis	Stockton	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8076	1736	Cx tarsalis	Stockton	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8076	1737	Cx tarsalis	Stockton	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8076	1738	Cx tarsalis	Stockton	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8076	1739	Cx tarsalis	Stockton	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8076	1740	Cx tarsalis	Stockton	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8076	1741	Cx tarsalis	Stockton	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8076	1742	Cx tarsalis	Stockton	33	CO2	7/25/2023	WNV
San Joaquin	SJCM 8077	1764	Cx tarsalis	Stockton	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8077	1765	Cx tarsalis	Stockton	42	CO2	7/25/2023	WNV
San Joaquin	SJCM 8083	1724	Cx tarsalis	Escalon	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8083	1726	Cx pipiens	Escalon	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8083	1727	Cx pipiens	Escalon	51	CO2	7/25/2023	WNV
San Joaquin	SJCM 8094	1766	Cx tarsalis	Manteca	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8094	1767	Cx tarsalis	Manteca	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8094	1768	Cx tarsalis	Manteca	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8094	1769	Cx tarsalis	Manteca	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8094	1770	Cx tarsalis	Manteca	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8094	1772	Cx pipiens	Manteca	8	CO2	7/25/2023	WNV
San Joaquin	SJCM 8100	1750	Cx tarsalis	Tracy	43	CO2	7/25/2023	WNV
San Joaquin	SJCM 8143	1822	Cx tarsalis	Stockton	100	CO2	7/25/2023	WNV
San Joaquin	SJCM 8143	1824	Cx tarsalis	Stockton	100	CO2	7/25/2023	WNV
San Joaquin	SJCM 8160	1787	Cx tarsalis	Lodi	100	CO2	7/25/2023	WNV
San Joaquin	SJCM 8160	1788	Cx tarsalis	Lodi	100	CO2	7/25/2023	WNV
San Joaquin	SJCM 8160	1789	Cx tarsalis	Lodi	100	CO2	7/25/2023	WNV
San Joaquin	SJCM 8160	1790	Cx tarsalis	Lodi	100	CO2	7/25/2023	WNV
San Joaquin	SJCM 8160	1791	Cx tarsalis	Lodi	100	CO2	7/25/2023	WNV
San Joaquin	SJCM 8191	1759	Cx tarsalis	Lodi	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8191	1760	Cx tarsalis	Lodi	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8198	1698	Cx tarsalis	Stockton	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8201	1842	Cx tarsalis	Lockford	25	CO2	7/27/2023	WNV
San Joaquin	SJCM 8204	1802	Cx tarsalis	Stockton	100	CO2	7/25/2023	WNV
San Joaquin	SJCM 8204	1805	Cx tarsalis	Stockton	100	CO2	7/25/2023	WNV
San Joaquin	SJCM 8204	1808	Cx pipiens	Stockton	49	CO2	7/25/2023	WNV
San Joaquin	SJCM 8206	1809	Cx tarsalis	Lodi	100	CO2	7/25/2023	WNV
San Joaquin	SJCM 8206	1810	Cx tarsalis	Lodi	100	CO2	7/25/2023	WNV
San Joaquin	SJCM 8206	1811	Cx tarsalis	Lodi	100	CO2	7/25/2023	WNV
San Joaquin	SJCM 8206	1812	Cx tarsalis	Lodi	100	CO2	7/25/2023	WNV
San Joaquin	SJCM 8206	1813	Cx tarsalis	Lodi	100	CO2	7/25/2023	WNV
San Joaquin	SJCM 8210	1693	Cx tarsalis	Escalon	34	CO2	7/25/2023	WNV
San Joaquin	SJCM 8211	1682	Cx tarsalis	Stockton	50	CO2	7/25/2023	WNV
San Joaquin	SJCM 8211	1683	Cx tarsalis	Stockton	37	CO2	7/25/2023	WNV
San Joaquin	SJCM 8217	1747	Cx tarsalis	Mountain House	25	CO2	7/25/2023	WNV
San Joaquin	SJCM 8218	1856	Cx tarsalis	Escalon	21	CO2	7/27/2023	WNV

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San Joaquin	SJCM 8222	1829	Cx tarsalis	Stockton	50	CO2	7/27/2023	WNV
San Joaquin	SJCM 8222	1830	Cx pipiens	Stockton	13	CO2	7/27/2023	WNV
San Joaquin	SJCM 8224	1844	Cx tarsalis	Lodi	50	CO2	7/27/2023	WNV
San Joaquin	SJCM 8224	1845	Cx tarsalis	Lodi	50	CO2	7/27/2023	WNV
San Joaquin	SJCM 8224	1846	Cx tarsalis	Lodi	50	CO2	7/27/2023	WNV
San Joaquin	SJCM 8230	1798	Cx tarsalis	Thornton	24	CO2	7/25/2023	WNV
Santa Clara	STCL 32119	1687	Cx tarsalis	Palo Alto	39	CO2-EVS	7/18/2023	WNV
Shasta	SHAS 10020	1149	Cx pipiens	Anderson	50	CO2	7/25/2023	WNV
Shasta	SHAS 10130	1088	Cx pipiens	Cottonwood	36	CO2	7/20/2023	WNV
Shasta	SHAS 110	1221	Cx pipiens	Redding	50	CO2	7/26/2023	WNV
Shasta	SHAS 110	1222	Cx pipiens	Redding	50	CO2	7/26/2023	WNV
Shasta	SHAS 139	1115	Cx tarsalis	Lake California	44	CO2	7/25/2023	WNV
Shasta	SHAS 20030	1215	Cx tarsalis	Redding	34	CO2	7/26/2023	WNV
Shasta	SHAS 375	1245	Cx tarsalis	Bella Vista	50	CO2	7/26/2023	WNV
Shasta	SHAS 375	1248	Cx tarsalis	Bella Vista	50	CO2	7/26/2023	WNV
Shasta	SHAS 375	1249	Cx tarsalis	Bella Vista	50	CO2	7/26/2023	WNV
Shasta	SHAS 410	1170	Cx tarsalis	Cottonwood	27	CO2	7/25/2023	WNV
Shasta	SHAS 427	1119	Cx tarsalis	Cottonwood	34	CO2	7/25/2023	WNV
Shasta	SHAS 427	1128	Cx pipiens	Cottonwood	50	CO2	7/25/2023	WNV
Shasta	SHAS 459	1238	Cx pipiens	Redding	50	CO2	7/26/2023	WNV
Shasta	SHAS 617	1109	Cx tarsalis	Cottonwood	36	CO2	7/25/2023	WNV
Shasta	SHAS 620	1207	Cx pipiens	Redding	50	CO2	7/26/2023	WNV
Shasta	SHAS 629	1090	Cx pipiens	Anderson	50	CO2	7/20/2023	WNV
Solano	SOLA 100004	246	Cx tarsalis	Davis	50	CO2	7/25/2023	WNV
Solano	SOLA 100004	248	Cx tarsalis	Davis	33	CO2	7/25/2023	WNV
Solano	SOLA 27	257	Cx pipiens	Dixon	14	CO2	7/25/2023	WNV
Solano	SOLA 33	250	Cx tarsalis	Dixon	50	CO2	7/25/2023	WNV
Solano	SOLA 33	252	Cx tarsalis	Dixon	50	CO2	7/25/2023	WNV
Solano	SOLA 38	271	Cx tarsalis	Dixon	50	CO2	7/25/2023	WNV
Solano	SOLA 38	272	Cx tarsalis	Dixon	50	CO2	7/25/2023	WNV
Stanislaus	EAST 1077	23139	Cx pipiens	Modesto	32	GRVD	7/19/2023	WNV
Stanislaus	EAST 1088	23132	Cx tarsalis	Modesto	31	CO2	7/19/2023	WNV
Stanislaus	EAST 1088	23134	Cx pipiens	Modesto	50	CO2	7/19/2023	WNV
Stanislaus	EAST 2002	23141	Cx pipiens	Modesto	12	GRVD	7/19/2023	WNV
Stanislaus	EAST 2021	23142	Cx pipiens	Modesto	50	GRVD	7/19/2023	WNV
Stanislaus	TRLK 1615	1091	Cx tarsalis	Modesto	50	CO2	7/25/2023	WNV
Stanislaus	TRLK 1673	1094	Cx tarsalis	Patterson	50	CO2	7/25/2023	WNV
Stanislaus	TRLK 1673	1096	Cx tarsalis	Patterson	30	CO2	7/25/2023	WNV
Stanislaus	TRLK 1843	1106	Cx pipiens	Turlock	50	CO2	7/25/2023	WNV
Stanislaus	TRLK 2	1131	Cx tarsalis	Vernalis	50	CO2	7/25/2023	WNV
Stanislaus	TRLK 2315	1119	Cx pipiens	Grayson	37	CO2	7/25/2023	WNV
Stanislaus	TRLK 322	1123	Cx tarsalis	Vernalis	50	CO2	7/25/2023	WNV
Stanislaus	TRLK 322	1124	Cx tarsalis	Vernalis	50	CO2	7/25/2023	WNV
Stanislaus	TRLK 322	1125	Cx tarsalis	Vernalis	50	CO2	7/25/2023	WNV
Stanislaus	TRLK 322	1126	Cx tarsalis	Vernalis	20	CO2	7/25/2023	WNV
Stanislaus	TRLK 806	1107	Cx pipiens	Grayson	29	CO2	7/25/2023	WNV
Stanislaus	TRLK 806	1109	Cx tarsalis	Grayson	50	CO2	7/25/2023	WNV
Stanislaus	TRLK 806	1110	Cx tarsalis	Grayson	50	CO2	7/25/2023	WNV
Stanislaus	TRLK 9732	1100	Cx tarsalis	Newman	43	CO2	7/25/2023	SLEV
Stanislaus	TRLK 9742	1098	Cx tarsalis	Crows Landing	50	CO2	7/25/2023	WNV
Stanislaus	TRLK 9768	1114	Cx tarsalis	Modesto	23	CO2	7/25/2023	WNV
Sutter	SUYA 15	370	Cx tarsalis	Robbins	50	REST	7/25/2023	WNV
Sutter	SUYA 15	372	Cx tarsalis	Robbins	50	REST	7/25/2023	WNV
Sutter	SUYA 15	374	Cx tarsalis	Robbins	50	REST	7/25/2023	WNV
Sutter	SUYA 30	391	Cx tarsalis	Live Oak	50	REST	7/25/2023	WNV
Sutter	SUYA 44	384	Cx tarsalis	Pleasant Grove	50	CO2	7/25/2023	WNV
Sutter	SUYA 63	379	Cx tarsalis	Live Oak	50	REST	7/25/2023	WNV
Sutter	SUYA 70	362	Cx tarsalis	Yuba City	50	CO2	7/27/2023	WNV
Tulare	DLNO 214	214	Cx quinquefasciatus	Richgrove	19	GRVD	7/25/2023	WNV
Tulare	DLNO 215	218	Cx quinquefasciatus	Earlimart	18	GRVD	7/25/2023	WNV
Tulare	DLTA 64161	4686	Cx quinquefasciatus	Dinuba	46	GRVD	7/25/2023	WNV
Tulare	DLTA 64163	4618	Cx quinquefasciatus	Dinuba	33	GRVD	7/20/2023	WNV
Tulare	DLTA 6420	4664	Cx quinquefasciatus	Dinuba	34	GRVD	7/21/2023	WNV
Tulare	DLTA 6517	4677	Cx quinquefasciatus	Orosi	31	GRVD	7/25/2023	WNV
Tulare	DLTA 65182	4542	Cx quinquefasciatus	Orosi	27	GRVD	7/19/2023	WNV
Tulare	DLTA 65203	4748	Cx stigmatosoma	Cutler	12	BGSENT	7/27/2023	WNV
Tulare	DLTA 653232	4608	Cx quinquefasciatus	Yetttem	48	CO2	7/20/2023	WNV
Tulare	DLTA 73161	4673	Cx quinquefasciatus	Traver	46	GRVD	7/25/2023	WNV
Tulare	DLTA 7625	4684	Cx quinquefasciatus	Woodlake	25	GRVD	7/25/2023	WNV



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Tulare	DLTA 7730	4683	Cx stigmatosoma	Woodlake	15	GRVD	7/25/2023	WNV
Tulare	DLTA 773334	4704	Cx quinquefasciatus	Lemon Cove	20	CO2	7/25/2023	WNV
Tulare	DLTA 8324	4665	Cx quinquefasciatus	Goshen	50	BGSENT	7/21/2023	WNV
Tulare	DLTA 8324	4666	Cx quinquefasciatus	Goshen	50	BGSENT	7/21/2023	WNV
Tulare	DLTA 8324	4667	Cx quinquefasciatus	Goshen	50	BGSENT	7/21/2023	WNV
Tulare	DLTA 8324	4668	Cx quinquefasciatus	Goshen	47	BGSENT	7/21/2023	WNV
Tulare	DLTA 8413	4706	Cx quinquefasciatus	Visalia	17	GRVD	7/26/2023	WNV
Tulare	DLTA 8414	4693	Cx quinquefasciatus	Visalia	31	BGSENT	7/25/2023	WNV
Tulare	DLTA 84193	4742	Cx quinquefasciatus	Visalia	11	GRVD	7/27/2023	WNV
Tulare	DLTA 84223	4594	Cx quinquefasciatus	Visalia	13	BGSENT	7/20/2023	WNV
Tulare	DLTA 84231	4691	Cx quinquefasciatus	Visalia	31	GRVD	7/25/2023	WNV
Tulare	DLTA 84242	4731	Cx quinquefasciatus	Visalia	20	BGSENT	7/26/2023	WNV
Tulare	DLTA 84273	4596	Cx quinquefasciatus	Visalia	19	GRVD	7/20/2023	WNV
Tulare	DLTA 84273	4602	Cx quinquefasciatus	Visalia	45	BGSENT	7/20/2023	WNV
Tulare	DLTA 8435	4595	Cx quinquefasciatus	Visalia	14	GRVD	7/20/2023	WNV
Tulare	DLTA 85192	4736	Cx quinquefasciatus	Visalia	28	BGSENT	7/26/2023	WNV
Tulare	DLTA 8520	4694	Cx quinquefasciatus	Visalia	13	BGSENT	7/25/2023	WNV
Tulare	DLTA 8528	4672	Cx quinquefasciatus	Visalia	31	GRVD	7/25/2023	WNV
Tulare	DLTA 8529	4675	Cx quinquefasciatus	Visalia	19	GRVD	7/25/2023	WNV
Tulare	DLTA 8530	4629	Cx quinquefasciatus	Visalia	23	BGSENT	7/20/2023	WNV
Tulare	DLTA 8534	4606	Cx quinquefasciatus	Visalia	15	GRVD	7/20/2023	WNV
Tulare	DLTA 8534	4681	Cx quinquefasciatus	Visalia	24	GRVD	7/25/2023	WNV
Tulare	DLTA 8534	4747	Cx quinquefasciatus	Visalia	17	GRVD	7/27/2023	WNV
Tulare	DLTA 8631	4607	Cx quinquefasciatus	Farmersville	10	GRVD	7/20/2023	WNV
Tulare	DLTA 9411	4722	Cx quinquefasciatus	Visalia	10	BGSENT	7/26/2023	WNV
Tulare	DLTA 9411	4761	Cx quinquefasciatus	Visalia	14	BGSENT	7/27/2023	WNV
Tulare	DLTA 9505	4720	Cx quinquefasciatus	Visalia	16	GRVD	7/26/2023	WNV
Tulare	DLTA 9602	4600	Cx quinquefasciatus	Exeter	12	GRVD	7/20/2023	WNV
Tulare	DLTA 9606	4621	Cx quinquefasciatus	Farmersville	50	GRVD	7/20/2023	WNV
Tulare	DLTA 9609	4692	Cx quinquefasciatus	Exeter	18	GRVD	7/25/2023	WNV
Tulare	TLRE 143	72	Cx quinquefasciatus	Tulare	45	GRVD	7/12/2023	WNV
Tulare	TLRE 150	77	Cx quinquefasciatus	Tulare	22	GRVD	7/18/2023	WNV
Tulare	TLRE 150	77	Cx quinquefasciatus	Tulare	22	GRVD	7/18/2023	SLEV
Tulare	TLRE 206	78	Cx quinquefasciatus	Tulare	24	GRVD	7/18/2023	WNV
Tulare	TLRE 372	76	Cx quinquefasciatus	Tulare	34	GRVD	7/13/2023	WNV
Tulare	TLRE 379	84	Cx tarsalis	Alpaugh	27	GRVD	7/20/2023	WNV
Yolo	DAVI 90001	289	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90007	307	Cx pipiens	Davis	4	CO2	7/18/2023	WNV
Yolo	DAVI 90007	309	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90007	311	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90008	224	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90008	231	Cx tarsalis	Davis	16	CO2	7/18/2023	WNV
Yolo	DAVI 90011	145	Cx tarsalis	Davis	29	CO2	7/6/2023	WNV
Yolo	DAVI 90015	314	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90015	315	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90015	325	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90015	327	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90015	331	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90015	333	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90015	336	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90015	337	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90016	269	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90017	275	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90017	278	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90017	280	Cx pipiens	Davis	8	CO2	7/18/2023	WNV
Yolo	DAVI 90017	282	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90018	303	Cx pipiens	Davis	12	CO2	7/18/2023	WNV
Yolo	DAVI 90018	304	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90018	305	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90018	306	Cx tarsalis	Davis	14	CO2	7/18/2023	WNV
Yolo	DAVI 90019	355	Cx pipiens	Davis	10	CO2	7/18/2023	WNV
Yolo	DAVI 90020	257	Cx pipiens	Davis	22	CO2	7/18/2023	WNV
Yolo	DAVI 90020	260	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90020	261	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	DAVI 90021	251	Cx pipiens	Davis	34	CO2	7/18/2023	WNV
Yolo	DAVI 90021	255	Cx tarsalis	Davis	49	CO2	7/18/2023	WNV
Yolo	DAVI 90029	190	Cx pipiens	Davis	13	CO2	7/18/2023	WNV
Yolo	DAVI 90031	248	Cx tarsalis	Davis	50	CO2	7/18/2023	WNV
Yolo	SAYO 103007	3740	Cx pipiens	Dunnigan	22	CO2	7/25/2023	WNV

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Yolo	SAYO 103007	3741	Cx tarsalis	Dunnigan	50	CO2	7/25/2023	WNV
Yolo	SAYO 103007	3744	Cx tarsalis	Dunnigan	50	CO2	7/25/2023	WNV
Yolo	SAYO 103007	3745	Cx tarsalis	Dunnigan	50	CO2	7/25/2023	WNV
Yolo	SAYO 103007	3746	Cx pipiens	Dunnigan	9	GRVD	7/25/2023	WNV
Yolo	SAYO 103012	3725	Cx pipiens	Woodland	35	CO2	7/25/2023	WNV
Yolo	SAYO 103012	3730	Cx pipiens	Woodland	9	GRVD	7/25/2023	WNV
Yolo	SAYO 114001	3735	Cx tarsalis	Zamora	50	CO2	7/25/2023	WNV
Yolo	SAYO 114001	3736	Cx tarsalis	Zamora	50	CO2	7/25/2023	WNV
Yolo	SAYO 115008	3748	Cx tarsalis	Woodland	50	CO2	7/25/2023	WNV
Yolo	SAYO 115008	3749	Cx tarsalis	Woodland	50	CO2	7/25/2023	WNV
Yolo	SAYO 115008	3750	Cx tarsalis	Woodland	50	CO2	7/25/2023	WNV
Yolo	SAYO 115008	3751	Cx tarsalis	Woodland	50	CO2	7/25/2023	WNV
Yolo	SAYO 115008	3752	Cx tarsalis	Woodland	50	CO2	7/25/2023	WNV
Yolo	SAYO 123005	3340	Cx tarsalis	Madison	50	CO2	7/21/2023	WNV
Yolo	SAYO 123005	3343	Cx pipiens	Madison	38	GRVD	7/21/2023	WNV
Yolo	SAYO 124007	3356	Cx tarsalis	Woodland	50	CO2	7/21/2023	WNV
Yolo	SAYO 124007	3359	Cx tarsalis	Woodland	50	CO2	7/21/2023	WNV
Yolo	SAYO 124007	3360	Cx tarsalis	Woodland	20	CO2	7/21/2023	WNV
Yolo	SAYO 125013	3394	Cx pipiens	Woodland	35	GRVD	7/21/2023	WNV
Yolo	SAYO 125016	3347	Cx pipiens	Woodland	36	GRVD	7/21/2023	WNV
Yolo	SAYO 125030	3397	Cx tarsalis	Woodland	41	CO2	7/21/2023	WNV
Yolo	SAYO 125030	3825	Cx tarsalis	Woodland	38	CO2	7/21/2023	WNV
Yolo	SAYO 125033	3363	Cx tarsalis	Woodland	50	CO2	7/21/2023	WNV
Yolo	SAYO 125033	3365	Cx tarsalis	Woodland	50	CO2	7/21/2023	WNV
Yolo	SAYO 125033	3367	Cx tarsalis	Woodland	50	CO2	7/21/2023	WNV
Yolo	SAYO 125033	3368	Cx pipiens	Woodland	30	GRVD	7/21/2023	WNV
Yolo	SAYO 125033	3796	Cx tarsalis	Woodland	50	CO2	7/27/2023	WNV
Yolo	SAYO 135005	3381	Cx tarsalis	Woodland	50	CO2	7/21/2023	WNV
Yolo	SAYO 135005	3382	Cx tarsalis	Woodland	50	CO2	7/21/2023	WNV
Yolo	SAYO 135006	3403	Cx tarsalis	Woodland	50	CO2	7/21/2023	WNV
Yolo	SAYO 135019	3528	Cx tarsalis	Davis	50	CO2	7/25/2023	WNV
Yolo	SAYO 135019	3530	Cx tarsalis	Davis	50	CO2	7/25/2023	WNV
Yolo	SAYO 135020	3799	Cx tarsalis	Woodland	50	CO2	7/27/2023	WNV
Yolo	SAYO 135020	3800	Cx tarsalis	Woodland	50	CO2	7/27/2023	WNV
Yolo	SAYO 135020	3801	Cx tarsalis	Woodland	50	CO2	7/27/2023	WNV
Yolo	SAYO 135020	3802	Cx tarsalis	Woodland	50	CO2	7/27/2023	WNV
Yolo	SAYO 135020	3804	Cx pipiens	Woodland	1	GRVD	7/27/2023	WNV
Yolo	SAYO 136008	3556	Cx tarsalis	Davis	50	CO2	7/25/2023	WNV
Yolo	SAYO 136010	3514	Cx tarsalis	Woodland	50	CO2	7/25/2023	WNV
Yolo	SAYO 136010	3515	Cx tarsalis	Woodland	50	CO2	7/25/2023	WNV
Yolo	SAYO 136010	3516	Cx tarsalis	Woodland	50	CO2	7/25/2023	WNV
Yolo	SAYO 136010	3517	Cx tarsalis	Woodland	50	CO2	7/25/2023	WNV
Yolo	SAYO 136010	3518	Cx tarsalis	Woodland	50	CO2	7/25/2023	WNV
Yolo	SAYO 137013	3520	Cx tarsalis	West Sacramento	47	CO2	7/25/2023	WNV
Yolo	SAYO 137013	3521	Cx pipiens	West Sacramento	37	GRVD	7/25/2023	WNV
Yolo	SAYO 143008	3338	Cx tarsalis	Winters	36	CO2	7/21/2023	WNV
Yolo	SAYO 145010	3591	Cx tarsalis	Davis	2	CO2	7/25/2023	WNV
Yolo	SAYO 145020	3575	Cx tarsalis	Davis	1	GRVD	7/25/2023	WNV
Yolo	SAYO 145028	3523	Cx tarsalis	Davis	50	CO2	7/25/2023	WNV
Yolo	SAYO 146	3374	Cx tarsalis	Woodland	50	CO2	7/21/2023	WNV
Yolo	SAYO 412129	3577	Cx tarsalis	Davis	50	CO2	7/25/2023	WNV
Yolo	SAYO 412130	3599	Cx tarsalis	Davis	50	CO2	7/25/2023	WNV
Yuba	SUYA 10	346	Cx tarsalis	Olivehurst	50	CO2	7/25/2023	WNV
Yuba	SUYA 10	348	Cx tarsalis	Olivehurst	50	CO2	7/25/2023	WNV
Yuba	SUYA 10	368	Cx tarsalis	Olivehurst	7	REST	7/26/2023	WNV
Yuba	SUYA 37	364	Cx tarsalis	Marysville	50	CO2	7/27/2023	WNV
Yuba	SUYA 37	365	Cx tarsalis	Marysville	50	CO2	7/27/2023	WNV
Yuba	SUYA 55	360	Cx tarsalis	Linda	44	CO2	7/26/2023	WNV

### Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02
Butte	BUCO 1	Chico	7/18/2023	WNV	2127	
Butte	BUCO 4	Gridley	7/18/2023	WNV	2146	
Butte	BUCO 5	Honcut	7/18/2023	WNV	2153	
Butte	BUCO 6	Chico	7/18/2023	WNV	2158	
Sutter	SUYA 14	Sutter	7/21/2023	WNV	2810	
Sutter	SUYA 30	Live Oak	7/21/2023	WNV	2805	
Tulare	TLRE 8	Tulare	7/24/2023	WNV	2883	2884

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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)