

California Arbovirus Surveillance Bulletin #20

Week 34 Friday, August 25, 2023



WEEKLY UPDATE

Humans

West Nile virus

A total of 31 human cases of West Nile virus (WNV) were reported this week from 14 counties: Butte (2), El Dorado (1), Glenn (2), Kings (1), Los Angeles (1), Merced (1), Riverside (1), Sacramento (9), San Bernardino (3), San Joaquin (1), Stanislaus (1), Tulare (3), Yolo (3), and Yuba (2). **These are the first human cases of WNV reported from El Dorado, Glenn, Kings, Sacramento, Stanislaus, and Yuba counties this year.** In 2023, a total of 55 human cases of WNV have been reported from 18 counties: Butte (6), El Dorado (1), Glenn (2), Kern (1), Kings (1), Lake (4), Los Angeles (2), Madera (1), Merced (2), Riverside (1), Sacramento (9), San Bernardino (7), San Joaquin (2), Santa Clara (1), Stanislaus (1), Tulare (8), Yolo (4), and Yuba (2). Of the 55 cases, 44 (80%) had neuroinvasive disease and 5 (9%) were fatal. The median age of the case-patients was 62 years and 35 (64%) of the case-patients were male. The dates of symptom onset ranged from June 30 to Aug 16. In addition to the 55 WNV human cases, 6 asymptomatic WNV-positive blood donors have been reported from 4 counties: Butte (1), Fresno (2), Los Angeles (2), and San Bernardino (1). At this time last year, 26 human cases of WNV had been reported from 11 counties.

St. Louis encephalitis virus

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

Dead Birds

A total of 66 new WNV positive dead birds were reported this week from 12 counties: Alameda (4), Contra Costa (1), Los Angeles (1), Madera (1), Placer (7), Riverside (17), Sacramento (16), San Bernardino (2), Santa Clara (7), Solano (1), Stanislaus (1), and Yolo (8). **This is the first WNV positive dead bird from Madera County this year.** In 2023, 354 WNV positive dead birds have been reported from 23 counties. At this time last year, 92 WNV positive dead birds had been reported from 17 counties.

Mosquito Pools

West Nile virus

A total of 340 new WNV positive mosquito pools were identified from 22 counties: Alameda (1), Butte (4), Colusa (2), Contra Costa (1), Fresno (40), Glenn (1), Kern (16), Lake (4), Los Angeles (44), Madera (15), Merced (10), Orange (4), Placer (10), Riverside (2), Sacramento (33), San Bernardino (16), San Joaquin (47), Santa Clara (2), Shasta (12), Stanislaus (21), Tulare (41), and Yolo (14). **These are the first WNV positive mosquito pools reported from Colusa and Glenn counties this year.** In 2023, 2,797 WNV positive mosquito pools have been reported from 28 counties. At this time last year, 1,834 WNV positive mosquito pools had been reported from 25 counties.

St. Louis encephalitis virus

A total of 49 new SLEV positive mosquito pools were identified from 6 counties: Fresno (17), Kern (8), Madera (4), Merced (2), Riverside (1), and Tulare (17). In 2023, 262 SLEV positive mosquito pools have been reported from 11 counties. At this time last year, 46 SLEV positive pools had been reported from 4 counties.

Sentinel Chickens

A total of 33 new WNV positive chickens were reported this week from 11 counties: Butte (7), Contra Costa (3), Nevada (1), Sacramento (2), San Benito (1), Shasta (1), Sutter (9), Tehama (2), Tulare (2), Yolo (3), and Yuba (2). **These are the first WNV positive sentinel chickens reported from Contra Costa, Sacramento, Shasta, and Yolo counties and the first WNV activity reported from Nevada, San Benito, and Tehama counties this year.** In 2023, 102 WNV positive chickens have been reported from 14 counties. At this time last year, 52 WNV positive chickens had been reported from 10 counties.

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2022 & 2023 YTD West Nile Virus Comparisons		
	2022	2023
Total No. Dead Bird Reports	3,528	4,372
No. Positive Counties	28	36
No. Human Cases	26	55
No. Positive Dead Birds / No. Tested	92 / 949	354 / 1,237
No. Positive Mosquito Pools / No. Tested	1,834 / 26,356	2,797 / 34,886
No. Seroconversions / No. Tested	52 / 3,476	102 / 2,617

YTD WNV Activity by Element and County, 2023					
County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			8	6	
Butte	6	1		52	29
Colusa			7	2	1
Contra Costa			5	8	3
El Dorado	1		1		
Fresno		1		137	
Glenn	2			1	
Imperial				3	
Kern	1	2		83	
Kings	1	1		47	
Lake	4		2	13	
Los Angeles	2		13	232	
Madera	1			103	
Merced	2	1		25	22
Napa		1	1	4	
Nevada					1
Orange		1		25	
Placer			24	154	
Riverside	1		21	33	
Sacramento	9	1	114	258	2
San Benito					1
San Bernardino	7	1	4	95	
San Joaquin	2		14	453	
San Luis Obispo		1			
San Mateo			1		
Santa Clara	1	1	24	8	
Shasta			1	99	1
Solano			7	17	5
Sonoma			2		
Stanislaus	1	2	2	176	
Sutter			6	56	17
Tehama					2
Tulare	8		5	427	10
Ventura			3		
Yolo	4		22	259	3
Yuba	2	1		21	5
Totals	55	15	287	2,797	102

*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		53	
Imperial		2	
Inyo		1	
Kern	1	38	
Kings		7	
Madera		6	
Merced		3	
Riverside		101	
San Joaquin		2	
Stanislaus		4	
Tulare		45	
Totals	1	262	0

TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	31	0	0
	YTD	55	1	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Dead Birds	Week	66 / 98					
	YTD	354 / 1,237					
Chicken Sera	Week	33 / 212	0 / 212	0 / 212			
	YTD	102 / 2,617	0 / 2,617	0 / 2,617			
Mosquito Pools	Week	340 / 1,899	49 / 1,770	0 / 1,770	0 / 0	0 / 0	0 / 0
	YTD	2,797 / 34,886	262 / 31,510	0 / 31,510	0 / 386	0 / 386	0 / 386

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Alameda	94502	American Crow	8/24/2023	WNV
Alameda	Alameda Co MAD	Livermore	94550	American Crow	8/23/2023	WNV
Alameda	Alameda Co MAD	Livermore	94550	Northern Mockingbird	8/24/2023	WNV
Alameda	Alameda Co MAD	Oakland	94602	American Crow	8/21/2023	WNV
Contra Costa	Contra Costa MVCD	Antioch	94509	American Crow	8/16/2023	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Cerritos	90703	American Crow	8/15/2023	WNV
Madera	Madera Co MVCD	Madera	93637	Finch	8/14/2023	WNV
Placer	Placer MVCD	Granite Bay	95746	Unknown - pigeon or dove	8/21/2023	WNV
Placer	Placer MVCD	Lincoln	95648	Sparrow	8/18/2023	WNV
Placer	Placer MVCD	Rocklin	95765	American Crow	8/22/2023	WNV
Placer	Placer MVCD	Roseville	95747	American Robin	8/18/2023	WNV
Placer	Placer MVCD	Roseville	95747	Mourning Dove	8/18/2023	WNV
Placer	Placer MVCD	Roseville	95747	House Finch	8/20/2023	WNV
Placer	Placer MVCD	Roseville	95678	California Scrub-Jay	8/22/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/9/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/9/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/10/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92881	American Crow	8/10/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/13/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/13/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92878	American Crow	8/15/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/18/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/18/2023	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	8/18/2023	WNV
Riverside	Northwest Mosquito VCD	Riverside	92505	American Crow	8/6/2023	WNV
Riverside	Northwest Mosquito VCD	Riverside	92505	American Crow	8/7/2023	WNV
Riverside	Northwest Mosquito VCD	Riverside	92506	American Crow	8/7/2023	WNV
Riverside	Northwest Mosquito VCD	Riverside	92505	American Crow	8/8/2023	WNV
Riverside	Northwest Mosquito VCD	Riverside	92505	American Crow	8/10/2023	WNV
Riverside	Northwest Mosquito VCD	Riverside	92503	Northern Flicker	8/11/2023	WNV
Riverside	Northwest Mosquito VCD	Riverside	92509	American Crow	8/14/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	California Scrub-Jay	8/18/2023	WNV
Sacramento	Sacramento-Yolo MVCD	elk grove	95624	Mourning Dove	8/18/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	American Robin	8/21/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Elverta	95626	California Scrub-Jay	8/20/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Galt	95632	Yellow-billed Magpie	8/16/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95818	American Crow	8/15/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	California Scrub-Jay	8/16/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	House Finch	8/16/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	Anna's Hummingbird	8/17/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	Northern Mockingbird	8/17/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	House Sparrow	8/18/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	8/19/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	8/19/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95838	Mourning Dove	8/20/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	8/21/2023	WNV
Sacramento	UC Davis Veterinary Hospital	Sacramento	95822	Parrot	8/16/2023	WNV
San Bernardino	West Valley MVCD	Chino	91710	American Crow	8/24/2023	WNV
San Bernardino	West Valley MVCD	Ontario	91761	Unknown - Crow or Raven	8/17/2023	WNV
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	American Crow	8/15/2023	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	8/17/2023	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	Common Raven	8/21/2023	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95139	Unknown-hawk	8/21/2023	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95128	American Crow	8/22/2023	WNV
Santa Clara	Santa Clara Co VCD	Saratoga	95070	Bushtit	8/16/2023	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	8/16/2023	WNV
Solano	Solano Co MAD	Fairfield	94533	American Crow	8/18/2023	WNV
Stanislaus	Turlock MAD	Turlock	95380	House Finch	8/21/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	California Scrub-Jay	8/14/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/16/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	California Scrub-Jay	8/16/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	California Scrub-Jay	8/19/2023	WNV
Yolo	Sacramento-Yolo MVCD	Madison	95653	California Scrub-Jay	8/15/2023	WNV

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Yolo	Sacramento-Yolo MVCD	West Sacramento	95605	Yellow-billed Magpie	8/17/2023	WNV
Yolo	Sacramento-Yolo MVCD	West Sacramento	95605	Yellow-billed Magpie	8/17/2023	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	Northern Mockingbird	8/18/2023	WNV

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus
Alameda	ALCO 519938	30578	Cx tarsalis	Livermore	10	CO2	8/25/2023	WNV
Butte	BUCO 146	408	Cx tarsalis	Palermo	27	CO2	8/15/2023	WNV
Butte	BUCO 175	414	Cx tarsalis	Gridley	50	CO2	8/16/2023	WNV
Butte	BUCO 55	410	Cx tarsalis	Palermo	27	CO2	8/15/2023	WNV
Butte	BUCO 69	406	Cx pipiens	Oroville	35	CO2	8/14/2023	WNV
Colusa	CLSA 8	2	Cx tarsalis	Colusa	50	CO2	8/16/2023	WNV
Colusa	CLSA 8	10	Cx tarsalis	Colusa	50	CO2	8/16/2023	WNV
Contra Costa	CNTR 8202	1001	Cx pipiens	Discovery Bay	27	CO2	8/22/2023	WNV
Fresno	CNSL 2491	235	Cx tarsalis	Sanger	40	BGSENT	8/16/2023	WNV
Fresno	CNSL 2539	233	Cx quinquefasciatus	Sanger	45	GRVD	8/16/2023	WNV
Fresno	CNSL 2539	234	Cx stigmatosoma	Sanger	50	GRVD	8/16/2023	WNV
Fresno	CNSL 2539	234	Cx stigmatosoma	Sanger	50	GRVD	8/16/2023	SLEV
Fresno	CNSL 2550	706	Cx quinquefasciatus	Clovis	26	GRVD	8/18/2023	WNV
Fresno	CNSL 2685	707	Cx tarsalis	Sanger	50	CO2	8/18/2023	WNV
Fresno	CNSL 3094	667	Cx quinquefasciatus	Reedley	34	GRVD	8/15/2023	WNV
Fresno	CNSL 3501	239	Cx tarsalis	Orange Cove	50	CO2	8/17/2023	WNV
Fresno	CNSL 3532	705	Cx quinquefasciatus	Reedley	50	GRVD	8/17/2023	SLEV
Fresno	CNSL 6076	698	Cx quinquefasciatus	Laton	14	GRVD	8/15/2023	SLEV
Fresno	CNSL 6323	701	Cx quinquefasciatus	Riverdale	27	CO2	8/15/2023	WNV
Fresno	FRNO 109	747	Cx quinquefasciatus	Fresno	10	GRVD	8/15/2023	WNV
Fresno	FRNO 111	791	Cx quinquefasciatus	Fresno	41	GRVD	8/17/2023	WNV
Fresno	FRNO 111	791	Cx quinquefasciatus	Fresno	41	GRVD	8/17/2023	SLEV
Fresno	FRNO 112	748	Cx quinquefasciatus	Fresno	26	GRVD	8/15/2023	WNV
Fresno	FRNO 112	748	Cx quinquefasciatus	Fresno	26	GRVD	8/15/2023	SLEV
Fresno	FRNO 116	759	Cx quinquefasciatus	Fresno	50	GRVD	8/15/2023	WNV
Fresno	FRNO 123	797	Cx quinquefasciatus	Fresno	25	GRVD	8/17/2023	SLEV
Fresno	FRNO 159	763	Cx quinquefasciatus	Fresno	14	GRVD	8/15/2023	WNV
Fresno	FRNO 160	798	Cx quinquefasciatus	Fresno	13	GRVD	8/23/2023	WNV
Fresno	FRNO 162	757	Cx quinquefasciatus	Fresno	15	GRVD	8/15/2023	WNV
Fresno	FRNO 170	802	Cx quinquefasciatus	Fresno	15	GRVD	8/23/2023	WNV
Fresno	FRNO 174	752	Cx quinquefasciatus	Fresno	17	GRVD	8/15/2023	WNV
Fresno	FRNO 174	752	Cx quinquefasciatus	Fresno	17	GRVD	8/15/2023	SLEV
Fresno	FRNO 18	807	Cx quinquefasciatus	Fresno	13	GRVD	8/23/2023	WNV
Fresno	FRNO 182	754	Cx quinquefasciatus	Fresno	35	GRVD	8/15/2023	SLEV
Fresno	FRNO 19	762	Cx quinquefasciatus	Fresno	50	GRVD	8/15/2023	WNV
Fresno	FRNO 194	772	Cx quinquefasciatus	Fresno	30	GRVD	8/17/2023	WNV
Fresno	FRNO 2	803	Cx quinquefasciatus	Kerman	14	GRVD	8/23/2023	WNV
Fresno	FRNO 207	782	Cx quinquefasciatus	Fresno	50	GRVD	8/17/2023	WNV
Fresno	FRNO 209	799	Cx quinquefasciatus	Kerman	16	GRVD	8/23/2023	WNV
Fresno	FRNO 216	801	Cx quinquefasciatus	Fresno	10	GRVD	8/23/2023	WNV
Fresno	FRNO 219	776	Cx quinquefasciatus	Fresno	50	GRVD	8/17/2023	WNV
Fresno	FRNO 219	776	Cx quinquefasciatus	Fresno	50	GRVD	8/17/2023	SLEV
Fresno	FRNO 238	760	Cx quinquefasciatus	Fresno	50	GRVD	8/15/2023	WNV
Fresno	FRNO 238	760	Cx quinquefasciatus	Fresno	50	GRVD	8/15/2023	SLEV
Fresno	FRNO 254	789	Cx quinquefasciatus	Fresno	10	GRVD	8/17/2023	WNV
Fresno	FRNO 263	761	Cx quinquefasciatus	Fresno	50	GRVD	8/15/2023	SLEV
Fresno	FRNO 27	778	Cx quinquefasciatus	Fresno	50	GRVD	8/17/2023	WNV
Fresno	FRNO 27	778	Cx quinquefasciatus	Fresno	50	GRVD	8/17/2023	SLEV
Fresno	FRNO 278	775	Cx quinquefasciatus	Fresno	11	GRVD	8/17/2023	SLEV
Fresno	FRNO 284	774	Cx quinquefasciatus	Fresno	16	GRVD	8/17/2023	SLEV
Fresno	FRNO 35	790	Cx quinquefasciatus	Fresno	50	GRVD	8/17/2023	WNV
Fresno	FRNO 45	777	Cx quinquefasciatus	Fresno	50	GRVD	8/17/2023	WNV
Fresno	FRNO 8	767	Cx tarsalis	Fresno	17	BGSENT	8/15/2023	SLEV
Fresno	FRNO 8006	804	Cx quinquefasciatus	Kerman	13	GRVD	8/23/2023	WNV
Fresno	FRNO 88	750	Cx quinquefasciatus	Fresno	22	GRVD	8/15/2023	WNV
Fresno	FRNO 93	806	Cx quinquefasciatus	Fresno	16	GRVD	8/23/2023	WNV
Fresno	FRWS 100006	345	Cx tarsalis	Dos Palos	50	CO2	8/22/2023	WNV
Fresno	FRWS 100006	347	Cx tarsalis	Dos Palos	50	CO2	8/22/2023	WNV
Fresno	FRWS 100006	347	Cx tarsalis	Dos Palos	50	CO2	8/22/2023	SLEV
Fresno	FRWS 200001	332	Cx tarsalis	Mendota	50	CO2	8/17/2023	WNV
Fresno	FRWS 200003	341	Cx tarsalis	Dos Palos	50	CO2	8/22/2023	WNV

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Fresno	FRWS 220003	342	Cx tarsalis	Firebaugh	50	CO2	8/22/2023	WNV
Fresno	FRWS 220003	342	Cx tarsalis	Firebaugh	50	CO2	8/22/2023	SLEV
Fresno	FRWS 5101	348	Cx tarsalis	Mendota	50	CO2	8/22/2023	WNV
Fresno	FRWS 5302	351	Cx tarsalis	Helm	18	CO2	8/22/2023	WNV
Glenn	BUCO 110	409	Cx tarsalis	Hamilton City	50	CO2	8/14/2023	WNV
Kern	DLNO 119	280	Cx quinquefasciatus	Delano	41	GRVD	8/22/2023	WNV
Kern	DLNO 119	280	Cx quinquefasciatus	Delano	41	GRVD	8/22/2023	SLEV
Kern	DLNO 143	277	Cx quinquefasciatus	Mcfarland	16	GRVD	8/22/2023	WNV
Kern	DLNO 180	275	Cx quinquefasciatus	Delano	25	GRVD	8/22/2023	WNV
Kern	DLNO 190	283	Cx quinquefasciatus	Delano	50	GRVD	8/22/2023	WNV
Kern	DLNO 190	283	Cx quinquefasciatus	Delano	50	GRVD	8/22/2023	SLEV
Kern	DLNO 38	278	Cx quinquefasciatus	Delano	20	GRVD	8/22/2023	WNV
Kern	DLNO 38	278	Cx quinquefasciatus	Delano	20	GRVD	8/22/2023	SLEV
Kern	DLNO 51	276	Cx quinquefasciatus	Mcfarland	21	GRVD	8/22/2023	WNV
Kern	DLNO 51	276	Cx quinquefasciatus	Mcfarland	21	GRVD	8/22/2023	SLEV
Kern	DLNO 88	281	Cx quinquefasciatus	Mcfarland	31	GRVD	8/22/2023	WNV
Kern	KERN 117	1154	Cx quinquefasciatus	Bakersfield	50	CO2	8/15/2023	WNV
Kern	KERN 118	1163	Cx tarsalis	Buttonwillow	50	CO2	8/17/2023	WNV
Kern	KERN 118	1163	Cx tarsalis	Buttonwillow	50	CO2	8/17/2023	SLEV
Kern	KERN 2040	1153	Cx quinquefasciatus	Arvin	44	GRVD	8/15/2023	WNV
Kern	KERN 27	1151	Cx quinquefasciatus	Wasco	24	CO2	8/15/2023	WNV
Kern	KERN 27	1151	Cx quinquefasciatus	Wasco	24	CO2	8/15/2023	SLEV
Kern	KERN 27	1152	Cx tarsalis	Wasco	41	CO2	8/15/2023	WNV
Kern	KERN 27	1152	Cx tarsalis	Wasco	41	CO2	8/15/2023	SLEV
Kern	KERN 3027	1159	Cx tarsalis	Arvin	20	CO2	8/15/2023	WNV
Kern	KERN 3030	1164	Cx tarsalis	Shafter	45	CO2	8/17/2023	WNV
Kern	KERN 31	1155	Cx tarsalis	Arvin	34	CO2	8/15/2023	WNV
Kern	KERN 55	1157	Cx quinquefasciatus	Arvin	34	CO2	8/15/2023	SLEV
Kern	KERN 9	1161	Cx quinquefasciatus	Bakersfield	41	CO2	8/16/2023	WNV
Lake	LAKE 1000	290	Cx tarsalis	Upper Lake	35	CO2	8/16/2023	WNV
Lake	LAKE 305	305	Cx tarsalis	Middletown	50	CO2	8/15/2023	WNV
Lake	LAKE 472	300	Cx tarsalis	Lakeport	50	CO2	8/17/2023	WNV
Lake	LAKE 472	301	Cx tarsalis	Lakeport	50	CO2	8/17/2023	WNV
Los Angeles	GRLA 2029	5608	Cx quinquefasciatus	Canoga Park	50	GRVD	8/15/2023	WNV
Los Angeles	GRLA 2030	5609	Cx quinquefasciatus	West Hills	50	GRVD	8/15/2023	WNV
Los Angeles	GRLA 2093	598	Cx quinquefasciatus	South Gate	51	GRVD	8/16/2023	WNV
Los Angeles	GRLA 2270	594	Cx quinquefasciatus	Bellflower	47	GRVD	8/16/2023	WNV
Los Angeles	GRLA 2278	612	Cx quinquefasciatus	Long Beach	21	GRVD	8/17/2023	WNV
Los Angeles	GRLA 2419	5618	Cx quinquefasciatus	Panorama City	50	GRVD	8/16/2023	WNV
Los Angeles	GRLA 2554	5607	Cx quinquefasciatus	Winnetka	50	BGSENT	8/15/2023	WNV
Los Angeles	GRLA 2567	5603	Cx quinquefasciatus	Woodland Hills	13	BGSENT	8/15/2023	WNV
Los Angeles	GRLA 2574	5614	Cx quinquefasciatus	Sherman Oaks	50	GRVD	8/16/2023	WNV
Los Angeles	GRLA 2580	5613	Cx quinquefasciatus	Sherman Oaks	50	GRVD	8/16/2023	WNV
Los Angeles	GRLA 2651	5615	Cx quinquefasciatus	Encino	50	GRVD	8/16/2023	WNV
Los Angeles	GRLA 2724	5606	Cx quinquefasciatus	Winnetka	47	BGSENT	8/15/2023	WNV
Los Angeles	GRLA 2936	5642	Cx quinquefasciatus	Burbank	50	GRVD	8/18/2023	WNV
Los Angeles	GRLA 2937	5641	Cx quinquefasciatus	Burbank	50	GRVD	8/18/2023	WNV
Los Angeles	GRLA 2957	607	Cx quinquefasciatus	Hawaiian Gardens	50	GRVD	8/17/2023	WNV
Los Angeles	GRLA 2962	5612	Cx quinquefasciatus	Chatsworth	41	BGSENT	8/15/2023	WNV
Los Angeles	GRLA 2995	5604	Cx quinquefasciatus	Woodland Hills	36	BGSENT	8/15/2023	WNV
Los Angeles	GRLA 3028	5610	Cx quinquefasciatus	West Hills	32	GRVD	8/15/2023	WNV
Los Angeles	GRLA 3036	5611	Cx quinquefasciatus	Canoga Park	50	GRVD	8/15/2023	WNV
Los Angeles	GRLA 3051	609	Cx quinquefasciatus	Signal Hill	50	GRVD	8/17/2023	WNV
Los Angeles	GRLA 3056	600	Cx quinquefasciatus	Cudahy	32	BGSENT	8/16/2023	WNV
Los Angeles	GRLA 3057	601	Cx quinquefasciatus	Huntington Park	50	GRVD	8/16/2023	WNV
Los Angeles	GRLA 3070	616	Cx quinquefasciatus	Commerce	50	BGSENT	8/18/2023	WNV
Los Angeles	LACW 1048	558	Cx quinquefasciatus	Inglewood	14	CO2	8/18/2023	WNV
Los Angeles	LACW 1054	556	Cx quinquefasciatus	Inglewood	50	CO2	8/18/2023	WNV
Los Angeles	SGVA 1000	568	Cx quinquefasciatus	Azusa	50	GRVD	8/24/2023	WNV
Los Angeles	SGVA 1066	559	Cx quinquefasciatus	Pomona	50	GRVD	8/24/2023	WNV
Los Angeles	SGVA 1148	561	Cx quinquefasciatus	Pomona	50	GRVD	8/24/2023	WNV
Los Angeles	SGVA 1310	542	Cx quinquefasciatus	La Verne	27	GRVD	8/22/2023	WNV
Los Angeles	SGVA 1311	539	Cx quinquefasciatus	San Dimas	44	GRVD	8/22/2023	WNV
Los Angeles	SGVA 1311	540	Cx quinquefasciatus	San Dimas	44	GRVD	8/22/2023	WNV
Los Angeles	SGVA 1312	533	Cx quinquefasciatus	San Dimas	42	GRVD	8/22/2023	WNV
Los Angeles	SGVA 1313	546	Cx quinquefasciatus	La Verne	39	GRVD	8/22/2023	WNV
Los Angeles	SGVA 1314	543	Cx quinquefasciatus	La Verne	43	GRVD	8/22/2023	WNV
Los Angeles	SGVA 1314	544	Cx quinquefasciatus	La Verne	43	GRVD	8/22/2023	WNV
Los Angeles	SGVA 1314	545	Cx quinquefasciatus	La Verne	44	GRVD	8/22/2023	WNV

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Los Angeles	SGVA 451	565	Cx quinquefasciatus	Glendora	50	GRVD	8/24/2023	WNV
Los Angeles	SGVA 458	578	Cx quinquefasciatus	Covina	48	GRVD	8/24/2023	WNV
Los Angeles	SGVA 469	557	Cx quinquefasciatus	Pomona	50	GRVD	8/24/2023	WNV
Los Angeles	SGVA 509	573	Cx quinquefasciatus	Glendora	32	GRVD	8/24/2023	WNV
Los Angeles	SGVA 64	558	Cx quinquefasciatus	West Covina	50	GRVD	8/24/2023	WNV
Los Angeles	SGVA 683	579	Cx quinquefasciatus	Sierra Madre	27	GRVD	8/24/2023	WNV
Los Angeles	SGVA 915	562	Cx quinquefasciatus	San Dimas	30	GRVD	8/24/2023	WNV
Los Angeles	SGVA 956	570	Cx quinquefasciatus	Walnut	45	GRVD	8/24/2023	WNV
Madera	MADR 1109	329	Cx tarsalis	Madera	45	CO2	8/15/2023	WNV
Madera	MADR 1109	329	Cx tarsalis	Madera	45	CO2	8/15/2023	SLEV
Madera	MADR 12	338	Cx tarsalis	Madera	50	CO2	8/16/2023	WNV
Madera	MADR 195	342	Cx tarsalis	Madera	50	CO2	8/16/2023	WNV
Madera	MADR 198	335	Cx quinquefasciatus	Madera	11	CO2	8/16/2023	WNV
Madera	MADR 198	336	Cx tarsalis	Madera	50	CO2	8/16/2023	WNV
Madera	MADR 204	343	Cx tarsalis	Madera	50	CO2	8/16/2023	WNV
Madera	MADR 227	332	Cx quinquefasciatus	Madera	50	CO2	8/15/2023	WNV
Madera	MADR 311	324	Cx tarsalis	Madera	39	CO2	8/15/2023	WNV
Madera	MADR 311	324	Cx tarsalis	Madera	39	CO2	8/15/2023	SLEV
Madera	MADR 3334	339	Cx quinquefasciatus	Madera	50	CO2	8/15/2023	WNV
Madera	MADR 3334	340	Cx tarsalis	Madera	50	CO2	8/15/2023	WNV
Madera	MADR 3334	340	Cx tarsalis	Madera	50	CO2	8/15/2023	SLEV
Madera	MADR 690	346	Cx tarsalis	Madera	50	CO2	8/16/2023	WNV
Madera	MADR 706	334	Cx tarsalis	Madera	31	CO2	8/16/2023	WNV
Madera	MADR 714	344	Cx quinquefasciatus	Madera	40	BGSENT	8/17/2023	WNV
Madera	MADR 714	344	Cx quinquefasciatus	Madera	40	BGSENT	8/17/2023	SLEV
Madera	MADR 85	326	Cx tarsalis	Madera	28	CO2	8/15/2023	WNV
Madera	MADR 967	331	Cx tarsalis	Madera	49	CO2	8/15/2023	WNV
Merced	MERC 201720	662	Cx tarsalis	Hilmar	18	CO2	8/18/2023	WNV
Merced	MERC 201781	676	Cx pipiens	Snelling	11	CO2	8/23/2023	WNV
Merced	MERC 405	655	Cx pipiens	Hilmar	50	CO2	8/18/2023	WNV
Merced	MERC 405	655	Cx pipiens	Hilmar	50	CO2	8/18/2023	SLEV
Merced	MERC 405	656	Cx pipiens	Hilmar	50	CO2	8/18/2023	WNV
Merced	MERC 405	657	Cx pipiens	Hilmar	50	CO2	8/18/2023	WNV
Merced	MERC 405	658	Cx pipiens	Hilmar	50	CO2	8/18/2023	WNV
Merced	MERC 406	652	Cx pipiens	Newman	50	CO2	8/18/2023	WNV
Merced	MERC 586541	667	Cx pipiens	Atwater	40	BGSENT	8/22/2023	WNV
Merced	MERC 791915	651	Cx pipiens	Hilmar-Irwin	13	BGSENT	8/18/2023	WNV
Merced	MERC 964123	649	Cx tarsalis	Gustine	31	BGSENT	8/18/2023	WNV
Merced	MERC 964123	649	Cx tarsalis	Gustine	31	BGSENT	8/18/2023	SLEV
Orange	ORCO 1020	3184	Cx quinquefasciatus	Seal Beach	12	GRVD	8/23/2023	WNV
Orange	ORCO 170	3096	Cx quinquefasciatus	Anaheim	10	GRVD	8/22/2023	WNV
Orange	ORCO 208	3186	Cx quinquefasciatus	Santa Ana	25	CO2	8/23/2023	WNV
Orange	ORCO 338	3099	Cx quinquefasciatus	Anaheim	16	GRVD	8/22/2023	WNV
Placer	PLCR 1022	1189	Cx tarsalis	Roseville	2	CO2	8/22/2023	WNV
Placer	PLCR 1113	1205	Cx tarsalis	Pleasant Grove	50	CO2	8/22/2023	WNV
Placer	PLCR 1113	1206	Cx tarsalis	Pleasant Grove	50	CO2	8/22/2023	WNV
Placer	PLCR 1113	1207	Cx tarsalis	Pleasant Grove	3	CO2	8/22/2023	WNV
Placer	PLCR 139	1223	Cx tarsalis	Roseville	50	CO2	8/22/2023	WNV
Placer	PLCR 191218	1198	Cx tarsalis	Roseville	11	CO2	8/22/2023	WNV
Placer	PLCR 191998	1201	Cx tarsalis	Lincoln	50	CO2	8/22/2023	WNV
Placer	PLCR 25	1220	Cx tarsalis	Lincoln	50	CO2	8/22/2023	WNV
Placer	PLCR 25	1221	Cx tarsalis	Lincoln	50	CO2	8/22/2023	WNV
Placer	PLCR 516	1216	Cx tarsalis	Roseville	35	CO2	8/22/2023	WNV
Riverside	COAV 55	4305	Cx tarsalis	Mecca	7	CO2	8/23/2023	SLEV
Riverside	RIVR 0	257	Cx tarsalis	Riverside	4	CO2	8/16/2023	WNV
Riverside	RIVR 31	243	Cx tarsalis	Nuevo	50	CO2	8/16/2023	WNV
Sacramento	SAYO 202006	5492	Cx pipiens	Sacramento	1	GRVD	8/23/2023	WNV
Sacramento	SAYO 203034	5477	Cx tarsalis	Rio Linda	5	CO2	8/23/2023	WNV
Sacramento	SAYO 204035	5499	Cx pipiens	Sacramento	19	CO2	8/23/2023	WNV
Sacramento	SAYO 204035	5500	Cx tarsalis	Sacramento	18	CO2	8/23/2023	WNV
Sacramento	SAYO 212004	5680	Cx pipiens	Sacramento	5	GRVD	8/23/2023	WNV
Sacramento	SAYO 212022	5316	Cx pipiens	Sacramento	2	GRVD	8/18/2023	WNV
Sacramento	SAYO 212036	5312	Cx tarsalis	Sacramento	11	CO2	8/18/2023	WNV
Sacramento	SAYO 222052	5638	Cx pipiens	Sacramento	21	GRVD	8/23/2023	WNV
Sacramento	SAYO 222065	5641	Cx pipiens	Sacramento	23	GRVD	8/23/2023	WNV
Sacramento	SAYO 223017	5596	Cx pipiens	Sacramento	34	GRVD	8/23/2023	WNV
Sacramento	SAYO 223019	5624	Cx pipiens	Sacramento	3	CO2	8/23/2023	WNV
Sacramento	SAYO 223019	5625	Cx tarsalis	Sacramento	4	CO2	8/23/2023	WNV
Sacramento	SAYO 223062	5599	Cx pipiens	Sacramento	50	GRVD	8/23/2023	WNV

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Sacramento	SAYO 232001	5644	Cx pipiens	Sacramento	3	CO2	8/23/2023	WNV
Sacramento	SAYO 232001	5648	Cx pipiens	Sacramento	10	GRVD	8/23/2023	WNV
Sacramento	SAYO 232029	5404	Cx tarsalis	Elk Grove	50	CO2	8/18/2023	WNV
Sacramento	SAYO 232029	5407	Cx pipiens	Elk Grove	4	GRVD	8/18/2023	WNV
Sacramento	SAYO 233001	5619	Cx tarsalis	Elk Grove	1	CO2	8/23/2023	WNV
Sacramento	SAYO 233003	5617	Cx pipiens	Elk Grove	18	GRVD	8/23/2023	WNV
Sacramento	SAYO 233058	5672	Cx tarsalis	Sacramento	18	CO2	8/23/2023	WNV
Sacramento	SAYO 242004	5408	Cx pipiens	Elk Grove	50	CO2	8/18/2023	WNV
Sacramento	SAYO 242004	5411	Cx tarsalis	Elk Grove	45	CO2	8/18/2023	WNV
Sacramento	SAYO 242010	5428	Cx tarsalis	Elk Grove	23	CO2	8/18/2023	WNV
Sacramento	SAYO 243009	5608	Cx pipiens	Elk Grove	50	CO2	8/23/2023	WNV
Sacramento	SAYO 243023	5435	Cx tarsalis	Elk Grove	14	CO2	8/18/2023	WNV
Sacramento	SAYO 243032	5417	Cx pipiens	Elk Grove	50	CO2	8/18/2023	WNV
Sacramento	SAYO 245026	5342	Cx tarsalis	Wilton	20	CO2	8/18/2023	WNV
Sacramento	SAYO 261003	5446	Cx tarsalis	Isleton	50	CO2	8/18/2023	WNV
Sacramento	SAYO 261003	5449	Cx pipiens	Isleton	1	GRVD	8/18/2023	WNV
Sacramento	SAYO 397034	5456	Cx pipiens	Sacramento	8	BGSENT	8/23/2023	WNV
Sacramento	SAYO 397034	5457	Cx tarsalis	Sacramento	3	BGSENT	8/23/2023	WNV
Sacramento	SAYO 413643	5458	Cx pipiens	Sacramento	5	BGSENT	8/23/2023	WNV
Sacramento	SAYO 413829	5645	Cx pipiens	Sacramento	2	CO2	8/23/2023	WNV
San Bernardino	SANB 275	254	Cx quinquefasciatus	Highland	16	CO2	8/16/2023	WNV
San Bernardino	SANB 37	245	Cx tarsalis	San Bernardino	50	CO2	8/15/2023	WNV
San Bernardino	SANB 37	247	Cx tarsalis	San Bernardino	50	CO2	8/15/2023	WNV
San Bernardino	SANB 37	248	Cx tarsalis	San Bernardino	50	CO2	8/15/2023	WNV
San Bernardino	SANB 37	250	Cx tarsalis	San Bernardino	48	CO2	8/15/2023	WNV
San Bernardino	SANB 37	257	Cx tarsalis	San Bernardino	50	CO2	8/17/2023	WNV
San Bernardino	SANB 37	258	Cx tarsalis	San Bernardino	50	CO2	8/17/2023	WNV
San Bernardino	SANB 37	259	Cx tarsalis	San Bernardino	21	CO2	8/17/2023	WNV
San Bernardino	SANB 37	261	Cx tarsalis	San Bernardino	39	CO2	8/18/2023	WNV
San Bernardino	WVAL 1107	1756	Cx quinquefasciatus	Ontario	6	BGSENT	8/24/2023	WNV
San Bernardino	WVAL 15	1737	Cx quinquefasciatus	Chino	7	BGSENT	8/24/2023	WNV
San Bernardino	WVAL 2003	1652	Cx erythrothorax	Chino	50	CO2	8/22/2023	WNV
San Bernardino	WVAL 2005	1698	Cx quinquefasciatus	Chino	24	CO2	8/23/2023	WNV
San Bernardino	WVAL 464	1740	Cx quinquefasciatus	Ontario	19	BGSENT	8/24/2023	WNV
San Bernardino	WVAL 5456	1663	Cx quinquefasciatus	Chino	23	BGSENT	8/22/2023	WNV
San Bernardino	WVAL 8002	1702	Cx quinquefasciatus	Chino	30	CO2	8/23/2023	WNV
San Joaquin	SJCM 8008	2334	Cx tarsalis	Manteca	50	CO2	8/22/2023	WNV
San Joaquin	SJCM 8008	2335	Cx tarsalis	Manteca	27	CO2	8/22/2023	WNV
San Joaquin	SJCM 8008	2336	Cx pipiens	Manteca	5	CO2	8/22/2023	WNV
San Joaquin	SJCM 8010	2322	Cx tarsalis	Ripon	26	CO2	8/22/2023	WNV
San Joaquin	SJCM 8018	2306	Cx tarsalis	Stockton	50	CO2	8/22/2023	WNV
San Joaquin	SJCM 8018	2307	Cx tarsalis	Stockton	50	CO2	8/22/2023	WNV
San Joaquin	SJCM 8018	2308	Cx tarsalis	Stockton	50	CO2	8/22/2023	WNV
San Joaquin	SJCM 8018	2309	Cx tarsalis	Stockton	50	CO2	8/22/2023	WNV
San Joaquin	SJCM 8018	2310	Cx tarsalis	Stockton	74	CO2	8/22/2023	WNV
San Joaquin	SJCM 8032	2375	Cx pipiens	Escalon	47	CO2	8/24/2023	WNV
San Joaquin	SJCM 8041	2304	Cx tarsalis	Lodi	24	CO2	8/22/2023	WNV
San Joaquin	SJCM 8045	2281	Cx tarsalis	Thornton	15	CO2	8/22/2023	WNV
San Joaquin	SJCM 8083	2319	Cx pipiens	Escalon	49	CO2	8/22/2023	WNV
San Joaquin	SJCM 8094	2338	Cx tarsalis	Manteca	54	CO2	8/22/2023	WNV
San Joaquin	SJCM 8143	2320	Cx tarsalis	Stockton	43	CO2	8/22/2023	WNV
San Joaquin	SJCM 8143	2321	Cx pipiens	Stockton	6	CO2	8/22/2023	WNV
San Joaquin	SJCM 8160	2278	Cx tarsalis	Lodi	25	CO2	8/22/2023	WNV
San Joaquin	SJCM 8199	2340	Cx tarsalis	Manteca	10	CO2	8/22/2023	WNV
San Joaquin	SJCM 8200	2355	Cx tarsalis	Lodi	50	CO2	8/24/2023	WNV
San Joaquin	SJCM 8204	2311	Cx tarsalis	Stockton	50	CO2	8/22/2023	WNV
San Joaquin	SJCM 8205	2378	Cx tarsalis	Farmington	50	CO2	8/24/2023	WNV
San Joaquin	SJCM 8205	2379	Cx tarsalis	Farmington	31	CO2	8/24/2023	WNV
San Joaquin	SJCM 8205	2381	Cx pipiens	Farmington	33	CO2	8/24/2023	WNV
San Joaquin	SJCM 8206	2289	Cx tarsalis	Lodi	50	CO2	8/22/2023	WNV
San Joaquin	SJCM 8206	2290	Cx tarsalis	Lodi	50	CO2	8/22/2023	WNV
San Joaquin	SJCM 8206	2291	Cx tarsalis	Lodi	50	CO2	8/22/2023	WNV
San Joaquin	SJCM 8206	2292	Cx tarsalis	Lodi	24	CO2	8/22/2023	WNV
San Joaquin	SJCM 8208	2357	Cx tarsalis	Lodi	53	CO2	8/24/2023	WNV
San Joaquin	SJCM 8208	2358	Cx pipiens	Lodi	34	CO2	8/24/2023	WNV
San Joaquin	SJCM 8209	2366	Cx tarsalis	Lodi	50	CO2	8/24/2023	WNV
San Joaquin	SJCM 8209	2367	Cx tarsalis	Lodi	50	CO2	8/24/2023	WNV
San Joaquin	SJCM 8209	2368	Cx tarsalis	Lodi	40	CO2	8/24/2023	WNV
San Joaquin	SJCM 8209	2369	Cx pipiens	Lodi	50	CO2	8/24/2023	WNV

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San Joaquin	SJCM 8209	2370	Cx pipiens	Lodi	50	CO2	8/24/2023	WNV
San Joaquin	SJCM 8209	2371	Cx pipiens	Lodi	50	CO2	8/24/2023	WNV
San Joaquin	SJCM 8209	2372	Cx pipiens	Lodi	47	CO2	8/24/2023	WNV
San Joaquin	SJCM 8216	2324	Cx tarsalis	Tracy	30	CO2	8/22/2023	WNV
San Joaquin	SJCM 8216	2325	Cx pipiens	Tracy	13	CO2	8/22/2023	WNV
San Joaquin	SJCM 8217	2332	Cx tarsalis	Mountain House	10	CO2	8/22/2023	WNV
San Joaquin	SJCM 8230	2328	Cx tarsalis	Thornton	50	CO2	8/22/2023	WNV
San Joaquin	SJCM 8230	2329	Cx tarsalis	Thornton	50	CO2	8/22/2023	WNV
San Joaquin	SJCM 8230	2330	Cx tarsalis	Thornton	22	CO2	8/22/2023	WNV
San Joaquin	SJCM 8230	2331	Cx pipiens	Thornton	8	CO2	8/22/2023	WNV
San Joaquin	SJCM 8253	2382	Cx tarsalis	Linden	50	CO2	8/24/2023	WNV
San Joaquin	SJCM 8253	2383	Cx tarsalis	Linden	20	CO2	8/24/2023	WNV
San Joaquin	SJCM 8253	2384	Cx pipiens	Linden	24	CO2	8/24/2023	WNV
San Joaquin	SJCM 8300	2315	Cx tarsalis	Manteca	5	CO2	8/22/2023	WNV
Santa Clara	STCL 31403	2534	Cx pipiens	San Jose	31	CO2-EVS	8/17/2023	WNV
Santa Clara	STCL 31587	2536	Cx pipiens	San Jose	26	CO2-EVS	8/17/2023	WNV
Shasta	SHAS 10130	1669	Cx pipiens	Cottonwood	17	CO2	8/22/2023	WNV
Shasta	SHAS 130	1705	Cx pipiens	Redding	32	CO2	8/23/2023	WNV
Shasta	SHAS 139	1662	Cx pipiens	Lake California	28	CO2	8/22/2023	WNV
Shasta	SHAS 618	1668	Cx tarsalis	Anderson	36	CO2	8/22/2023	WNV
Shasta	SHAS 618	1670	Cx pipiens	Anderson	49	CO2	8/22/2023	WNV
Shasta	SHAS 619	1710	Cx pipiens	Redding	34	CO2	8/23/2023	WNV
Shasta	SHAS 625	1718	Cx tarsalis	Redding	13	CO2	8/23/2023	WNV
Shasta	SHAS 634	1679	Cx pipiens	Anderson	29	CO2	8/22/2023	WNV
Shasta	SHAS 635	1681	Cx pipiens	Anderson	33	CO2	8/22/2023	WNV
Shasta	SHAS 918	1652	Cx pipiens	Redding	38	CO2	8/18/2023	WNV
Shasta	SHAS 93	1660	Cx tarsalis	Anderson	16	CO2	8/22/2023	WNV
Shasta	SHAS 93	1661	Cx pipiens	Anderson	28	CO2	8/22/2023	WNV
Stanislaus	TRLK 1305	1332	Cx tarsalis	Patterson	25	CO2	8/22/2023	WNV
Stanislaus	TRLK 1305	1334	Cx tarsalis	Patterson	50	CO2	8/22/2023	WNV
Stanislaus	TRLK 1615	1312	Cx tarsalis	Modesto	50	CO2	8/22/2023	WNV
Stanislaus	TRLK 1615	1313	Cx tarsalis	Modesto	50	CO2	8/22/2023	WNV
Stanislaus	TRLK 1615	1314	Cx pipiens	Modesto	22	CO2	8/22/2023	WNV
Stanislaus	TRLK 1616	1309	Cx tarsalis	Modesto	20	CO2	8/22/2023	WNV
Stanislaus	TRLK 1843	1294	Cx pipiens	Turlock	50	CO2	8/16/2023	WNV
Stanislaus	TRLK 2	1338	Cx tarsalis	Vernalis	17	CO2	8/22/2023	WNV
Stanislaus	TRLK 2	1339	Cx tarsalis	Vernalis	50	CO2	8/22/2023	WNV
Stanislaus	TRLK 2	1340	Cx tarsalis	Vernalis	50	CO2	8/22/2023	WNV
Stanislaus	TRLK 2315	1335	Cx tarsalis	Grayson	50	CO2	8/22/2023	WNV
Stanislaus	TRLK 23210	1300	Cx pipiens	Turlock	18	CO2	8/17/2023	WNV
Stanislaus	TRLK 307	1336	Cx tarsalis	Grayson	18	CO2	8/22/2023	WNV
Stanislaus	TRLK 307	1337	Cx tarsalis	Grayson	50	CO2	8/22/2023	WNV
Stanislaus	TRLK 322	1344	Cx tarsalis	Vernalis	50	CO2	8/22/2023	WNV
Stanislaus	TRLK 322	1345	Cx tarsalis	Vernalis	48	CO2	8/22/2023	WNV
Stanislaus	TRLK 437	1348	Cx tarsalis	Patterson	42	CO2	8/22/2023	WNV
Stanislaus	TRLK 806	1304	Cx tarsalis	Grayson	44	CO2	8/22/2023	WNV
Stanislaus	TRLK 806	1306	Cx tarsalis	Grayson	18	CO2	8/22/2023	WNV
Stanislaus	TRLK 9768	1327	Cx pipiens	Modesto	50	CO2	8/22/2023	WNV
Stanislaus	TRLK 9768	1328	Cx pipiens	Modesto	50	CO2	8/22/2023	WNV
Tulare	DLNO 125	270	Cx quinquefasciatus	Delano	50	CO2	8/18/2023	WNV
Tulare	DLNO 125	271	Cx tarsalis	Delano	50	CO2	8/18/2023	WNV
Tulare	DLNO 75	265	Cx quinquefasciatus	Earlimart	50	BGSENT	8/16/2023	WNV
Tulare	DLNO 96	272	Cx tarsalis	Earlimart	29	CO2	8/18/2023	WNV
Tulare	DLNO 96	272	Cx tarsalis	Earlimart	29	CO2	8/18/2023	SLEV
Tulare	DLNO 96	273	Cx quinquefasciatus	Earlimart	28	CO2	8/18/2023	WNV
Tulare	DLNO 96	273	Cx quinquefasciatus	Earlimart	28	CO2	8/18/2023	SLEV
Tulare	DLTA 64073	5295	Cx quinquefasciatus	Dinuba	50	GRVD	8/17/2023	WNV
Tulare	DLTA 64073	5295	Cx quinquefasciatus	Dinuba	50	GRVD	8/17/2023	SLEV
Tulare	DLTA 64073	5296	Cx quinquefasciatus	Dinuba	20	GRVD	8/17/2023	WNV
Tulare	DLTA 64074	5327	Cx quinquefasciatus	Dinuba	50	GRVD	8/18/2023	WNV
Tulare	DLTA 64074	5327	Cx quinquefasciatus	Dinuba	50	GRVD	8/18/2023	SLEV
Tulare	DLTA 64074	5333	Cx quinquefasciatus	Dinuba	14	BGSENT	8/18/2023	WNV
Tulare	DLTA 6408	5366	Cx quinquefasciatus	Dinuba	50	BGSENT	8/22/2023	WNV
Tulare	DLTA 6408	5367	Cx quinquefasciatus	Dinuba	50	BGSENT	8/22/2023	SLEV
Tulare	DLTA 6408	5368	Cx quinquefasciatus	Dinuba	14	BGSENT	8/22/2023	WNV
Tulare	DLTA 6408	5369	Cx stigmatosoma	Dinuba	13	BGSENT	8/22/2023	WNV
Tulare	DLTA 64084	5324	Cx quinquefasciatus	Dinuba	50	GRVD	8/18/2023	WNV
Tulare	DLTA 64161	5354	Cx quinquefasciatus	Dinuba	32	BGSENT	8/22/2023	SLEV
Tulare	DLTA 6417	5363	Cx quinquefasciatus	Dinuba	17	GRVD	8/22/2023	WNV

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Tulare	DLTA 6417	5400	Cx quinquefasciatus	Dinuba	24	BGSENT	8/23/2023	SLEV
Tulare	DLTA 6520	5298	Cx stigmatosoma	Cutler	22	GRVD	8/17/2023	WNV
Tulare	DLTA 6520	5298	Cx stigmatosoma	Cutler	22	GRVD	8/17/2023	SLEV
Tulare	DLTA 75011	5282	Cx stigmatosoma	Seville	50	CO2	8/17/2023	WNV
Tulare	DLTA 75011	5282	Cx stigmatosoma	Seville	50	CO2	8/17/2023	SLEV
Tulare	DLTA 75011	5283	Cx stigmatosoma	Seville	50	CO2	8/17/2023	WNV
Tulare	DLTA 75011	5284	Cx stigmatosoma	Seville	50	CO2	8/17/2023	WNV
Tulare	DLTA 75011	5286	Cx stigmatosoma	Seville	50	CO2	8/17/2023	WNV
Tulare	DLTA 75011	5286	Cx stigmatosoma	Seville	50	CO2	8/17/2023	SLEV
Tulare	DLTA 75011	5287	Cx stigmatosoma	Seville	50	CO2	8/17/2023	WNV
Tulare	DLTA 752914	5394	Cx quinquefasciatus	Patterson Tract	50	CO2	8/23/2023	SLEV
Tulare	DLTA 752914	5397	Cx quinquefasciatus	Patterson Tract	50	CO2	8/23/2023	WNV
Tulare	DLTA 752914	5398	Cx quinquefasciatus	Patterson Tract	50	CO2	8/23/2023	WNV
Tulare	DLTA 773334	5359	Cx erythrothorax	Lemon Cove	23	CO2	8/22/2023	WNV
Tulare	DLTA 84223	5292	Cx quinquefasciatus	Visalia	17	GRVD	8/17/2023	WNV
Tulare	DLTA 8425	5310	Cx quinquefasciatus	Visalia	18	GRVD	8/18/2023	WNV
Tulare	DLTA 8426	5376	Cx quinquefasciatus	Visalia	10	GRVD	8/23/2023	SLEV
Tulare	DLTA 84344	5311	Cx quinquefasciatus	Visalia	23	BGSENT	8/18/2023	SLEV
Tulare	DLTA 8501	5307	Cx quinquefasciatus	Ivanhoe	16	GRVD	8/18/2023	WNV
Tulare	DLTA 8512	5340	Cx quinquefasciatus	Ivanhoe	50	GRVD	8/22/2023	WNV
Tulare	DLTA 8520	5342	Cx quinquefasciatus	Visalia	50	GRVD	8/22/2023	WNV
Tulare	DLTA 8520	5370	Cx quinquefasciatus	Visalia	18	BGSENT	8/23/2023	WNV
Tulare	DLTA 8521	5309	Cx quinquefasciatus	Visalia	19	GRVD	8/18/2023	WNV
Tulare	DLTA 8521	5345	Cx quinquefasciatus	Visalia	12	BGSENT	8/22/2023	SLEV
Tulare	DLTA 8529	5337	Cx quinquefasciatus	Visalia	50	GRVD	8/22/2023	WNV
Tulare	DLTA 8529	5337	Cx quinquefasciatus	Visalia	50	GRVD	8/22/2023	SLEV
Tulare	DLTA 8529	5338	Cx quinquefasciatus	Visalia	28	GRVD	8/22/2023	WNV
Tulare	DLTA 8531	5362	Cx quinquefasciatus	Visalia	32	GRVD	8/22/2023	WNV
Tulare	DLTA 8533	5357	Cx quinquefasciatus	Visalia	16	GRVD	8/22/2023	WNV
Tulare	DLTA 9401	5110	Cx tarsalis	Visalia	22	BGSENT	8/15/2023	WNV
Tulare	DLTA 94012	5402	Cx quinquefasciatus	Visalia	15	GRVD	8/23/2023	WNV
Tulare	DLTA 94032	5377	Cx quinquefasciatus	Visalia	11	BGSENT	8/23/2023	WNV
Tulare	DLTA 94122	5403	Cx quinquefasciatus	Visalia	43	GRVD	8/23/2023	WNV
Tulare	DLTA 9501	5335	Cx quinquefasciatus	Farmersville	11	BGSENT	8/18/2023	WNV
Tulare	DLTA 95044	5303	Cx quinquefasciatus	Visalia	19	GRVD	8/18/2023	WNV
Tulare	DLTA 9506	5352	Cx quinquefasciatus	Visalia	31	GRVD	8/22/2023	SLEV
Tulare	TLRE 131	131	Cx quinquefasciatus	Tulare	45	GRVD	8/17/2023	WNV
Tulare	TLRE 131	131	Cx quinquefasciatus	Tulare	45	GRVD	8/17/2023	SLEV
Yolo	SAYO 123005	5395	Cx tarsalis	Madison	26	CO2	8/18/2023	WNV
Yolo	SAYO 123006	5375	Cx tarsalis	Esparto	8	CO2	8/18/2023	WNV
Yolo	SAYO 123006	5376	Cx pipiens	Esparto	20	GRVD	8/18/2023	WNV
Yolo	SAYO 125013	5516	Cx pipiens	Woodland	8	GRVD	8/23/2023	WNV
Yolo	SAYO 125016	5509	Cx pipiens	Woodland	15	GRVD	8/23/2023	WNV
Yolo	SAYO 125018	5545	Cx tarsalis	Woodland	50	CO2	8/23/2023	WNV
Yolo	SAYO 125033	5529	Cx pipiens	Woodland	36	GRVD	8/23/2023	WNV
Yolo	SAYO 135006	5413	Cx tarsalis	Woodland	32	CO2	8/18/2023	WNV
Yolo	SAYO 135020	5549	Cx tarsalis	Woodland	50	CO2	8/23/2023	WNV
Yolo	SAYO 143009	5378	Cx pipiens	Winters	2	CO2	8/18/2023	WNV
Yolo	SAYO 143009	5380	Cx pipiens	Winters	17	GRVD	8/18/2023	WNV
Yolo	SAYO 145024	5574	Cx tarsalis	Davis	25	CO2	8/23/2023	WNV
Yolo	SAYO 146	5503	Cx tarsalis	Woodland	50	CO2	8/23/2023	WNV
Yolo	SAYO 146002	5559	Cx tarsalis	Davis	11	CO2	8/23/2023	WNV

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Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03
Butte	BUCO 3	Oroville	8/15/2023	WNV	2139	2143	
Butte	BUCO 4	Gridley	8/15/2023	WNV	2147	2149	
Butte	BUCO 5	Honcut	8/15/2023	WNV	2150		
Butte	BUCO 6	Chico	8/15/2023	WNV	2156	2161	
Contra Costa	CNTR 7402	Oakley	8/14/2023	WNV	1901	1902	
Contra Costa	CNTR 8152	Knightesen	8/14/2023	WNV	1910		
Nevada	NEVA 9	Grass Valley	8/3/2023	WNV	1863		
Sacramento	SAYO 261013	Isleton	8/11/2023	WNV	2665	2663	
Shasta	SHAS 9704	Redding	8/14/2023	WNV	2735		
Sutter	SUYA 14	Sutter	8/17/2023	WNV	2808	2814	
Sutter	SUYA 15	Robbins	8/17/2023	WNV	2826	2828	
Sutter	SUYA 20	Meridian	8/17/2023	WNV	2818	2819	2820
Sutter	SUYA 30	Live Oak	8/17/2023	WNV	2807		
Sutter	SUYA 84	Yuba City	8/17/2023	WNV	2782		
Tehama	TEHA 100	Corning	8/16/2023	WNV	2853	2858	
Tulare	TLRE 8	Tulare	8/18/2023	WNV	2888	2890	
San Benito	SBVC 0	Hollister	8/16/2023	WNV	1966		
Yolo	SAYO 103013	Dunnigan	8/14/2023	WNV	2690	2676	2677
Yuba	SUYA 7	Marysville	8/17/2023	WNV	2797	2799	

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TEST PROTOCOLS

Humans:

Specimens are tested by local laboratories with an IgM or IgG immunofluorescent assay (IFA) and/or an IgM enzyme immunoassay (EIA). Specimens with inconclusive results are forwarded to the California Department of Public Health Viral and Rickettsial Disease Laboratory (VRDL) for further testing with a plaque reduction neutralization test (PRNT).

Dead Birds

Oral swab samples collected from bird carcasses are tested at the UC Davis Arbovirus Research and Training laboratory (DART) or at a local agency for West Nile virus by RT-qPCR.

Sentinel Chickens:

Dried blood spot samples from sentinel chickens are tested at the California Department of Public Health Vector-Borne Disease Laboratory for IgG antibodies to West Nile, St. Louis encephalitis, and western equine encephalomyelitis viruses by an EIA. Positive samples are confirmed by IFA, western-blot, or PRNT.

Mosquito Pools:

Mosquito pools are tested at DART or at a local agency for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a multiplex RT-qPCR. Invasive *Aedes* mosquitoes (*Ae. aegypti* and *Ae. albopictus*) are also tested at DART for chikungunya, dengue, and Zika viral RNA by a separate RT-qPCR.

Website Information: For updated information on WNV in California, please visit the California WNV website, <https://westnile.ca.gov>, or the California Vector-Borne Disease Surveillance System website, <https://maps.vectorsurv.org>.

Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch), California Department of Public Health, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Hannah Romo: Hannah.romo@cdph.ca.gov