

## California Arbovirus Surveillance Bulletin #14

Week 28 Friday, July 14, 2023



### WEEKLY UPDATE

#### **Humans**

##### West Nile virus

No human cases of West Nile virus (WNV) have been reported. At this time last year, 2 human cases of WNV had been reported from 2 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: Kern (1). At this time last year, 1 human case of SLEV had been reported from one county.

#### **Dead Birds**

A total of 25 new WNV positive dead birds were reported this week from 7 counties: Alameda (1), Los Angeles (1), Placer (5), Sacramento (12), San Joaquin (4), Santa Clara (1), and Yolo (1). In 2023, 90 WNV positive dead birds have been reported from 11 counties. At this time last year, 24 WNV positive dead birds had been reported from 9 counties.

#### **Mosquito Pools**

##### West Nile virus

A total of 250 new WNV positive mosquito pools were identified from 18 counties: Butte (2), Contra Costa (2), Fresno (2), Kern (5), Kings (8), Los Angeles (7), Merced (3), Placer (23), Riverside (4), Sacramento (21), San Bernardino (4), San Joaquin (31), Solano (1), Stanislaus (13), Sutter (9), Tulare (89), Yolo (25), and Yuba (1). **This is the first detection of WNV activity in Contra Costa, San Bernadino, Sutter, and Yuba counties and the first detection of WNV positive pools in Riverside County this year.** In 2023, 533 WNV positive mosquito pools have been reported from 19 counties. At this time last year, 356 WNV positive mosquito pools had been reported from 19 counties.

##### St. Louis encephalitis virus

A total of 34 new SLEV positive mosquito pools were identified from 4 counties: Fresno (1), Kern (2), Riverside (26), and Tulare (5). **This is the first detection of SLEV activity in Tulare County this year.** In 2023, 83 SLEV positive mosquito pools have been reported from 5 counties: Fresno (5), Imperial (1), Kern (10), Riverside (62), and Tulare (5). At this time last year, 4 SLEV positive pools had been reported from 3 counties.

#### **Sentinel Chickens**

No seroconversions have been reported in 2023. At this time last year, 1 WNV positive chicken had been reported from one county.

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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	2,647	2,985
No. Positive Counties	22	21
No. Human Cases	2	0
No. Positive Dead Birds / No. Tested	24 / 659	90 / 676
No. Positive Mosquito Pools / No. Tested	356 / 14,133	533 / 22,032
No. Seroconversions / No. Tested	1 / 2,078	0 / 1,578

<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	1	
Butte				3	
Contra Costa				2	
Fresno				3	
Kern				15	
Kings				13	
Los Angeles			10	33	
Merced				4	
Placer			8	37	
Riverside			4	4	
Sacramento			37	71	
San Bernadino				4	
San Joaquin			7	111	
Santa Clara			13		
Solano			1	3	
Stanislaus				32	
Sutter				9	
Tulare			2	147	
Ventura			3		
Yolo			2	40	
Yuba				1	
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>90</b>	<b>533</b>	<b>0</b>

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### TESTING SUMMARIES

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

Positive / Total Tested					
WNV	SLEV	WEEV	CHIK	DENV	ZIKA

<b>Dead Birds</b>	Week	25 / 70
	YTD	90 / 676

<b>Chicken Sera</b>	Week	0 / 208	0 / 208	0 / 208
	YTD	0 / 1,578	0 / 1,578	0 / 1,578

<b>Mosquito Pools</b>	Week	250 / 2,700	34 / 2,536	0 / 2,536	0 / 63	0 / 63	0 / 63
	YTD	533 / 22,032	83 / 21,504	0 / 21,503	0 / 223	0 / 223	0 / 223

### NEW POSITIVES

#### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Alameda	94502	American Crow	7/12/2023	WNV
Los Angeles	Greater Los Angeles Co VCD	Los Angeles	91325	American Crow	7/5/2023	WNV
Placer	Placer MVCD	Roseville	95747	American Crow	7/6/2023	WNV
Placer	Placer MVCD	Roseville	95747	American Crow	7/11/2023	WNV
Placer	Placer MVCD	Roseville	95747	California Scrub-Jay	7/6/2023	WNV
Placer	Placer MVCD	Roseville	95747	House Finch	7/9/2023	WNV
Placer	Placer MVCD	Roseville	95747	Western Bluebird	7/10/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	California Scrub-Jay	7/8/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	California Scrub-Jay	7/8/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	American Crow	7/9/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Elverta	95626	Yellow-billed Magpie	7/7/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	Yellow-billed Magpie	7/6/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	American Crow	7/5/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	American Crow	7/6/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	7/6/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95826	American Crow	7/8/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95829	California Scrub-Jay	7/8/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95824	Mourning Dove	7/6/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Yellow-billed Magpie	7/5/2023	WNV
San Joaquin	San Joaquin Co MVCD	Manteca	95337	California Scrub-Jay	7/12/2023	WNV
San Joaquin	San Joaquin Co MVCD	Tracy	95377	American Crow	7/6/2023	WNV
San Joaquin	San Joaquin Co MVCD	Tracy	95304	American Crow	7/9/2023	WNV
San Joaquin	San Joaquin Co MVCD	Tracy	95377	American Crow	7/11/2023	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	7/5/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	7/9/2023	WNV

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### Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus
Butte	BUCO 178	197	Cx tarsalis	Chico	50	CO2	7/3/2023	WNV
Butte	BUCO 178	199	Cx tarsalis	Chico	50	CO2	7/3/2023	WNV
Contra Costa	CNTR 8202	501	Cx tarsalis	Discovery Bay	50	CO2	7/6/2023	WNV
Contra Costa	CNTR 8202	546	Cx tarsalis	Discovery Bay	50	CO2	7/11/2023	WNV
Fresno	CNSL 1615	8	Cx quinquefasciatus	Fresno	22	GRVD	7/7/2023	SLEV
Fresno	CNSL 6397	4	Cx tarsalis	Laton	50	CO2	7/6/2023	WNV
Fresno	FRWS 4102	209	Cx tarsalis	Kerman	50	CO2	7/11/2023	WNV
Kern	DLNO 141	171	Cx quinquefasciatus	Mcfarland	27	BGSENT	7/6/2023	WNV
Kern	DLNO 49	187	Cx tarsalis	Mcfarland	50	BGSENT	7/12/2023	WNV
Kern	KERN 15	954	Cx tarsalis	Bakersfield	50	CO2	7/5/2023	WNV
Kern	KERN 3032	976	Cx tarsalis	Bakersfield	50	CO2	7/5/2023	SLEV
Kern	KERN 45	969	Cx tarsalis	Buttonwillow	50	CO2	7/5/2023	SLEV
Kern	KERN 7	974	Cx tarsalis	Famoso	38	CO2	7/5/2023	WNV
Kern	WEST 6260	31	Cx tarsalis	Buttonwillow	30	CO2	7/12/2023	WNV
Kings	KNGS 3018	240	Cx tarsalis	Lemoore	50	CO2	7/6/2023	WNV
Kings	KNGS 3018	242	Cx tarsalis	Lemoore	50	CO2	7/6/2023	WNV
Kings	KNGS 3078	231	Cx tarsalis	Riverdale	50	CO2	7/5/2023	WNV
Kings	KNGS 3078	232	Cx tarsalis	Riverdale	50	CO2	7/5/2023	WNV
Kings	KNGS 3078	234	Cx tarsalis	Riverdale	50	CO2	7/5/2023	WNV
Kings	KNGS 3100	259	Cx tarsalis	Hanford	50	CO2	7/7/2023	WNV
Kings	KNGS 3114	258	Cx tarsalis	Hanford	30	CO2	7/7/2023	WNV
Kings	KNGS 3125	255	Cx tarsalis	Hardwick	50	CO2	7/7/2023	WNV
Los Angeles	SGVA 1221	313	Cx quinquefasciatus	Covina	50	GRVD	7/13/2023	WNV
Los Angeles	SGVA 1283	310	Cx quinquefasciatus	Covina	50	GRVD	7/13/2023	WNV
Los Angeles	SGVA 1284	311	Cx quinquefasciatus	Covina	50	GRVD	7/13/2023	WNV
Los Angeles	SGVA 1285	312	Cx quinquefasciatus	Covina	50	GRVD	7/13/2023	WNV
Los Angeles	SGVA 62	286	Cx quinquefasciatus	Covina	50	GRVD	7/11/2023	WNV
Los Angeles	SGVA 683	307	Cx quinquefasciatus	Sierra Madre	50	GRVD	7/11/2023	WNV
Los Angeles	SGVA 953	302	Cx quinquefasciatus	Covina	50	GRVD	7/11/2023	WNV
Merced	MERC 433765	558	Cx tarsalis	Gustine	50	BGSENT	7/12/2023	WNV
Merced	MERC 433765	559	Cx tarsalis	Gustine	26	BGSENT	7/12/2023	WNV
Merced	MERC 666518	543	Cx pipiens	Atwater	50	CO2	7/11/2023	WNV
Placer	PLCR 1113	603	Cx tarsalis	Pleasant Grove	50	CO2	7/11/2023	WNV
Placer	PLCR 1113	604	Cx tarsalis	Pleasant Grove	50	CO2	7/11/2023	WNV
Placer	PLCR 1113	606	Cx tarsalis	Pleasant Grove	50	CO2	7/11/2023	WNV
Placer	PLCR 1113	607	Cx tarsalis	Pleasant Grove	50	CO2	7/11/2023	WNV
Placer	PLCR 139	583	Cx tarsalis	Roseville	50	CO2	7/11/2023	WNV
Placer	PLCR 139	584	Cx tarsalis	Roseville	50	CO2	7/11/2023	WNV
Placer	PLCR 139	585	Cx tarsalis	Roseville	50	CO2	7/11/2023	WNV
Placer	PLCR 139	586	Cx tarsalis	Roseville	50	CO2	7/11/2023	WNV
Placer	PLCR 139	587	Cx tarsalis	Roseville	7	CO2	7/11/2023	WNV
Placer	PLCR 191218	598	Cx tarsalis	Roseville	50	CO2	7/11/2023	WNV
Placer	PLCR 191235	644	Cx stigmatosoma	Newcastle	9	CO2	7/12/2023	WNV
Placer	PLCR 191998	580	Cx tarsalis	Lincoln	50	CO2	7/11/2023	WNV
Placer	PLCR 194232	590	Cx tarsalis	Pleasant Grove	36	CO2	7/11/2023	WNV
Placer	PLCR 197802	572	Cx tarsalis	Elverta	50	CO2	7/11/2023	WNV
Placer	PLCR 197802	573	Cx tarsalis	Elverta	46	CO2	7/11/2023	WNV
Placer	PLCR 197802	574	Cx erythrothorax	Elverta	3	CO2	7/11/2023	WNV
Placer	PLCR 197802	575	Cx stigmatosoma	Elverta	26	CO2	7/11/2023	WNV
Placer	PLCR 25	622	Cx tarsalis	Lincoln	50	CO2	7/11/2023	WNV
Placer	PLCR 25	623	Cx tarsalis	Lincoln	50	CO2	7/11/2023	WNV
Placer	PLCR 466642	640	Cx tarsalis	Roseville	50	CO2	7/12/2023	WNV
Placer	PLCR 466642	641	Cx tarsalis	Roseville	50	CO2	7/12/2023	WNV
Placer	PLCR 678519	615	Cx tarsalis	Elverta	50	CO2	7/11/2023	WNV
Placer	PLCR 678519	618	Cx tarsalis	Elverta	50	CO2	7/11/2023	WNV
Riverside	COAV 121	3630	Cx tarsalis	Mecca	50	CO2	7/11/2023	SLEV
Riverside	COAV 121	3631	Cx tarsalis	Mecca	50	CO2	7/11/2023	SLEV
Riverside	COAV 121	3632	Cx tarsalis	Mecca	50	CO2	7/11/2023	SLEV
Riverside	COAV 121	3634	Cx tarsalis	Mecca	47	CO2	7/11/2023	SLEV
Riverside	COAV 122	3595	Cx tarsalis	Mecca	50	CO2	7/11/2023	SLEV

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Riverside	COAV 122	3597	Cx tarsalis	Mecca	50	CO2	7/11/2023	SLEV
Riverside	COAV 122	3598	Cx tarsalis	Mecca	50	CO2	7/11/2023	SLEV
Riverside	COAV 122	3599	Cx tarsalis	Mecca	50	CO2	7/11/2023	SLEV
Riverside	COAV 123	3646	Cx tarsalis	Mecca	50	CO2	7/11/2023	SLEV
Riverside	COAV 123	3647	Cx tarsalis	Mecca	50	CO2	7/11/2023	SLEV
Riverside	COAV 123	3648	Cx tarsalis	Mecca	50	CO2	7/11/2023	SLEV
Riverside	COAV 43	3674	Cx tarsalis	Mecca	17	CO2	7/11/2023	SLEV
Riverside	COAV 45	3625	Cx tarsalis	Mecca	50	CO2	7/11/2023	SLEV
Riverside	COAV 45	3627	Cx tarsalis	Mecca	50	CO2	7/11/2023	SLEV
Riverside	COAV 45	3628	Cx tarsalis	Mecca	20	CO2	7/11/2023	SLEV
Riverside	COAV 46	3679	Cx tarsalis	Mecca	50	CO2	7/11/2023	SLEV
Riverside	COAV 46	3680	Cx tarsalis	Mecca	24	CO2	7/11/2023	SLEV
Riverside	COAV 51	3675	Cx tarsalis	North Shore	26	CO2	7/11/2023	SLEV
Riverside	COAV 531	3682	Cx quinquefasciatus	Mecca	26	CO2	7/11/2023	SLEV
Riverside	COAV 54	3677	Cx tarsalis	North Shore	50	CO2	7/11/2023	SLEV
Riverside	COAV 55	3650	Cx tarsalis	Mecca	50	CO2	7/11/2023	SLEV
Riverside	COAV 55	3651	Cx tarsalis	Mecca	50	CO2	7/11/2023	SLEV
Riverside	COAV 55	3652	Cx tarsalis	Mecca	50	CO2	7/11/2023	SLEV
Riverside	COAV 56	3619	Cx tarsalis	North Shore	50	CO2	7/11/2023	SLEV
Riverside	COAV 58	3655	Cx tarsalis	North Shore	50	CO2	7/11/2023	SLEV
Riverside	COAV 611	3456	Cx tarsalis	Mecca	49	CO2	7/11/2023	SLEV
Riverside	NWST 171	125	Cx quinquefasciatus	Norco	11	GRVD	7/6/2023	WNV
Riverside	NWST 171	126	Cx tarsalis	Norco	9	BGSENT	7/6/2023	WNV
Riverside	NWST 218	119	Cx quinquefasciatus	Eastvale	50	GRVD	6/29/2023	WNV
Riverside	NWST 346	130	Cx quinquefasciatus	Norco	28	BGSENT	7/6/2023	WNV
Sacramento	SAYO 150	2316	Cx pipiens	Sacramento	7	GRVD	7/7/2023	WNV
Sacramento	SAYO 201006	2605	Cx tarsalis	Sacramento	5	CO2	7/11/2023	WNV
Sacramento	SAYO 202016	2660	Cx tarsalis	Sacramento	50	CO2	7/11/2023	WNV
Sacramento	SAYO 202016	2662	Cx pipiens	Sacramento	9	GRVD	7/11/2023	WNV
Sacramento	SAYO 203037	2202	Cx tarsalis	Elverta	38	CO2	7/5/2023	WNV
Sacramento	SAYO 203037	2203	Cx pipiens	Elverta	19	GRVD	7/5/2023	WNV
Sacramento	SAYO 204020	2752	Cx pipiens	Sacramento	27	CO2	7/11/2023	WNV
Sacramento	SAYO 212033	2704	Cx pipiens	Sacramento, Ca	18	GRVD	7/11/2023	WNV
Sacramento	SAYO 222001	2676	Cx pipiens	Sacramento	48	CO2	7/11/2023	WNV
Sacramento	SAYO 222032	2653	Cx tarsalis	Sacramento	38	CO2	7/11/2023	WNV
Sacramento	SAYO 223006	2699	Cx pipiens	South Watt Avenue	17	GRVD	7/11/2023	WNV
Sacramento	SAYO 223017	2673	Cx pipiens	Sacramento	20	CO2	7/11/2023	WNV
Sacramento	SAYO 223034	2298	Cx pipiens	Sacramento	18	GRVD	7/7/2023	WNV
Sacramento	SAYO 223054	2626	Cx pipiens	Sacramento	14	GRVD	7/11/2023	WNV
Sacramento	SAYO 232027	2709	Cx pipiens	Sacramento	33	GRVD	7/11/2023	WNV
Sacramento	SAYO 233037	2777	Cx tarsalis	Elk Grove	3	GRVD	7/11/2023	WNV
Sacramento	SAYO 233052	2487	Cx pipiens	Sacramento	41	CO2	7/11/2023	WNV
Sacramento	SAYO 233052	2488	Cx tarsalis	Sacramento	41	CO2	7/11/2023	WNV
Sacramento	SAYO 233052	2489	Cx pipiens	Sacramento	4	GRVD	7/11/2023	WNV
Sacramento	SAYO 233116	2500	Cx tarsalis	Sacramento	27	CO2	7/11/2023	WNV
Sacramento	SAYO 271003	2348	Cx tarsalis	Isleton	50	CO2	7/7/2023	WNV
San Bernardino	WVAL 2008	836	Cx quinquefasciatus	Chino	19	CO2	7/11/2023	WNV
San Bernardino	WVAL 4721	877	Cx quinquefasciatus	Chino	45	BGSENT	7/11/2023	WNV
San Bernardino	WVAL 5611	810	Cx quinquefasciatus	Ontario	14	BGSENT	7/7/2023	WNV
San Bernardino	WVAL 5671	909	Cx quinquefasciatus	Ontario	41	BGSENT	7/13/2023	WNV
San Joaquin	SJCM 2151	1334	Cx pipiens	Tracy	31	CO2	7/11/2023	WNV
San Joaquin	SJCM 7025	1351	Cx pipiens	Tracy	50	GRVD	7/11/2023	WNV
San Joaquin	SJCM 8010	1374	Cx tarsalis	Ripon	50	CO2	7/11/2023	WNV
San Joaquin	SJCM 8010	1377	Cx tarsalis	Ripon	50	CO2	7/11/2023	WNV
San Joaquin	SJCM 8048	1441	Cx tarsalis	Stockton	50	CO2	7/13/2023	WNV
San Joaquin	SJCM 8074	1450	Cx tarsalis	Morada	38	CO2	7/13/2023	WNV
San Joaquin	SJCM 8094	1393	Cx tarsalis	Manteca	50	CO2	7/11/2023	WNV
San Joaquin	SJCM 8094	1394	Cx tarsalis	Manteca	50	CO2	7/11/2023	WNV
San Joaquin	SJCM 8094	1395	Cx tarsalis	Manteca	50	CO2	7/11/2023	WNV
San Joaquin	SJCM 8094	1396	Cx tarsalis	Manteca	7	CO2	7/11/2023	WNV
San Joaquin	SJCM 8100	1335	Cx tarsalis	Tracy	53	CO2	7/11/2023	WNV
San Joaquin	SJCM 8100	1336	Cx pipiens	Tracy	50	CO2	7/11/2023	WNV

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San Joaquin	SJCM 8111	1312	Cx tarsalis	Stockton	50	CO2	7/11/2023	WNV
San Joaquin	SJCM 8125	1462	Cx tarsalis	Stockton	49	CO2	7/13/2023	WNV
San Joaquin	SJCM 8199	1426	Cx tarsalis	Manteca	50	CO2	7/11/2023	WNV
San Joaquin	SJCM 8204	1397	Cx tarsalis	Stockton	100	CO2	7/11/2023	WNV
San Joaquin	SJCM 8204	1398	Cx tarsalis	Stockton	100	CO2	7/11/2023	WNV
San Joaquin	SJCM 8204	1400	Cx tarsalis	Stockton	100	CO2	7/11/2023	WNV
San Joaquin	SJCM 8205	1472	Cx tarsalis	Farmington	32	CO2	7/13/2023	WNV
San Joaquin	SJCM 8208	1470	Cx tarsalis	Lodi	38	CO2	7/13/2023	WNV
San Joaquin	SJCM 8210	1287	Cx pipiens	Escalon	50	CO2	7/11/2023	WNV
San Joaquin	SJCM 8222	1457	Cx tarsalis	Stockton	50	CO2	7/13/2023	WNV
San Joaquin	SJCM 8222	1458	Cx tarsalis	Stockton	27	CO2	7/13/2023	WNV
San Joaquin	SJCM 8224	1451	Cx tarsalis	Lodi	50	CO2	7/13/2023	WNV
San Joaquin	SJCM 8224	1452	Cx tarsalis	Lodi	50	CO2	7/13/2023	WNV
San Joaquin	SJCM 8224	1453	Cx tarsalis	Lodi	31	CO2	7/13/2023	WNV
San Joaquin	SJCM 8230	1430	Cx tarsalis	Thornton	100	CO2	7/11/2023	WNV
San Joaquin	SJCM 8230	1432	Cx tarsalis	Thornton	100	CO2	7/11/2023	WNV
San Joaquin	SJCM 8230	1433	Cx tarsalis	Thornton	100	CO2	7/11/2023	WNV
San Joaquin	SJCM 8230	1434	Cx tarsalis	Thornton	100	CO2	7/11/2023	WNV
San Joaquin	SJCM 8253	1467	Cx tarsalis	Linden	50	CO2	7/13/2023	WNV
Solano	SOLA 221	164	Cx tarsalis	Fairfield	50	CO2	7/11/2023	WNV
Stanislaus	EAST 1093	23113	Cx pipiens	Oakdale	34	GRVD	7/7/2023	WNV
Stanislaus	TRLK 1303	951	Cx pipiens	Patterson	50	CO2	7/11/2023	WNV
Stanislaus	TRLK 2	982	Cx pipiens	Vernalis	22	CO2	7/11/2023	WNV
Stanislaus	TRLK 2	983	Cx tarsalis	Vernalis	50	CO2	7/11/2023	WNV
Stanislaus	TRLK 2	986	Cx tarsalis	Vernalis	50	CO2	7/11/2023	WNV
Stanislaus	TRLK 20101	1002	Cx pipiens	Turlock	50	CO2	7/11/2023	WNV
Stanislaus	TRLK 20101	1005	Cx pipiens	Turlock	50	CO2	7/11/2023	WNV
Stanislaus	TRLK 2315	979	Cx tarsalis	Grayson	50	CO2	7/11/2023	WNV
Stanislaus	TRLK 312	965	Cx tarsalis	Newman	50	CO2	7/11/2023	WNV
Stanislaus	TRLK 322	987	Cx tarsalis	Vernalis	50	CO2	7/11/2023	WNV
Stanislaus	TRLK 322	988	Cx tarsalis	Vernalis	50	CO2	7/11/2023	WNV
Stanislaus	TRLK 322	990	Cx tarsalis	Vernalis	50	CO2	7/11/2023	WNV
Stanislaus	TRLK 9732	961	Cx tarsalis	Newman	44	CO2	7/11/2023	WNV
Sutter	SUYA 20	228	Cx tarsalis	Meridian	41	CO2	7/11/2023	WNV
Sutter	SUYA 20	229	Cx tarsalis	Meridian	41	CO2	7/11/2023	WNV
Sutter	SUYA 27	267	Cx tarsalis	Tierra Buena	50	CO2	7/13/2023	WNV
Sutter	SUYA 44	236	Cx tarsalis	Pleasant Grove	50	CO2	7/11/2023	WNV
Sutter	SUYA 44	238	Cx tarsalis	Pleasant Grove	50	CO2	7/11/2023	WNV
Sutter	SUYA 44	239	Cx tarsalis	Pleasant Grove	50	CO2	7/11/2023	WNV
Sutter	SUYA 5	268	Cx tarsalis	Live Oak	50	CO2	7/13/2023	WNV
Sutter	SUYA 71	269	Cx tarsalis	Meridian	50	REST	7/11/2023	WNV
Sutter	SUYA 71	271	Cx tarsalis	Meridian	50	REST	7/11/2023	WNV
Tulare	DLTA 6408	3903	Cx quinquefasciatus	Dinuba	50	GRVD	6/29/2023	WNV
Tulare	DLTA 6408	4395	Cx quinquefasciatus	Dinuba	50	GRVD	7/13/2023	WNV
Tulare	DLTA 64163	4393	Cx quinquefasciatus	Dinuba	50	GRVD	7/13/2023	WNV
Tulare	DLTA 6417	4325	Cx quinquefasciatus	Dinuba	20	GRVD	7/12/2023	WNV
Tulare	DLTA 8324	4262	Cx tarsalis	Goshen	21	BGSENT	7/7/2023	WNV
Tulare	DLTA 8413	4140	Cx quinquefasciatus	Visalia	43	GRVD	7/6/2023	WNV
Tulare	DLTA 8413	4367	Cx quinquefasciatus	Visalia	43	BGSENT	7/12/2023	WNV
Tulare	DLTA 8413	4367	Cx quinquefasciatus	Visalia	43	BGSENT	7/12/2023	SLEV
Tulare	DLTA 84131	4371	Cx quinquefasciatus	Visalia	45	CO2	7/12/2023	WNV
Tulare	DLTA 8423	4251	Cx quinquefasciatus	Visalia	16	BGSENT	7/7/2023	WNV
Tulare	DLTA 8424	3929	Cx quinquefasciatus	Visalia	50	GRVD	6/29/2023	WNV
Tulare	DLTA 8425	4183	Cx quinquefasciatus	Visalia	15	BGSENT	7/6/2023	WNV
Tulare	DLTA 8425	4314	Cx quinquefasciatus	Visalia	50	BGSENT	7/11/2023	WNV
Tulare	DLTA 8425	4316	Cx quinquefasciatus	Visalia	10	BGSENT	7/11/2023	WNV
Tulare	DLTA 8426	4010	Cx quinquefasciatus	Visalia	16	GRVD	6/30/2023	WNV
Tulare	DLTA 8426	4100	Cx quinquefasciatus	Visalia	10	BGSENT	6/30/2023	WNV
Tulare	DLTA 8426	4221	Cx quinquefasciatus	Visalia	30	GRVD	7/7/2023	WNV
Tulare	DLTA 8427	4106	Cx quinquefasciatus	Visalia	50	BGSENT	6/30/2023	WNV
Tulare	DLTA 8427	4242	Cx quinquefasciatus	Visalia	24	BGSENT	7/7/2023	WNV
Tulare	DLTA 84273	3900	Cx quinquefasciatus	Visalia	42	GRVD	6/29/2023	WNV

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Tulare	DLTA 8434	4174	Cx quinquefasciatus	Visalia	50	GRVD	7/6/2023	WNV
Tulare	DLTA 8434	4222	Cx quinquefasciatus	Visalia	20	GRVD	7/7/2023	WNV
Tulare	DLTA 8435	4156	Cx quinquefasciatus	Visalia	16	GRVD	7/6/2023	WNV
Tulare	DLTA 84352	4380	Cx tarsalis	Visalia	11	BGSENT	7/12/2023	WNV
Tulare	DLTA 8436	4266	Cx quinquefasciatus	Visalia	50	GRVD	7/11/2023	WNV
Tulare	DLTA 8436	4267	Cx quinquefasciatus	Visalia	21	GRVD	7/11/2023	WNV
Tulare	DLTA 8436	4303	Cx quinquefasciatus	Visalia	12	BGSENT	7/11/2023	WNV
Tulare	DLTA 8436	4335	Cx quinquefasciatus	Visalia	23	GRVD	7/12/2023	WNV
Tulare	DLTA 8436	4335	Cx quinquefasciatus	Visalia	23	GRVD	7/12/2023	SLEV
Tulare	DLTA 851432	4283	Cx quinquefasciatus	Visalia	50	CO2	7/11/2023	WNV
Tulare	DLTA 8519	4292	Cx quinquefasciatus	Visalia	21	BGSENT	7/11/2023	WNV
Tulare	DLTA 85193	3890	Cx quinquefasciatus	Visalia	15	GRVD	6/29/2023	WNV
Tulare	DLTA 8520	4002	Cx quinquefasciatus	Visalia	23	GRVD	6/30/2023	WNV
Tulare	DLTA 8520	4082	Cx quinquefasciatus	Visalia	46	BGSENT	6/30/2023	WNV
Tulare	DLTA 8520	4352	Cx stigmatosoma	Visalia	10	GRVD	7/12/2023	WNV
Tulare	DLTA 8520	4362	Cx quinquefasciatus	Visalia	37	BGSENT	7/12/2023	WNV
Tulare	DLTA 8521	4095	Cx quinquefasciatus	Visalia	50	BGSENT	6/30/2023	WNV
Tulare	DLTA 8521	4384	Cx quinquefasciatus	Visalia	29	GRVD	7/13/2023	WNV
Tulare	DLTA 8522	4034	Cx quinquefasciatus	Visalia	44	GRVD	6/30/2023	WNV
Tulare	DLTA 8527	3927	Cx quinquefasciatus	Visalia	13	GRVD	6/29/2023	WNV
Tulare	DLTA 8528	4060	Cx tarsalis	Visalia	10	BGSENT	6/30/2023	WNV
Tulare	DLTA 8528	4243	Cx quinquefasciatus	Visalia	26	BGSENT	7/7/2023	WNV
Tulare	DLTA 8529	4274	Cx quinquefasciatus	Visalia	49	GRVD	7/11/2023	WNV
Tulare	DLTA 85293	4144	Cx quinquefasciatus	Visalia	44	GRVD	7/6/2023	WNV
Tulare	DLTA 8530	4152	Cx quinquefasciatus	Visalia	50	GRVD	7/6/2023	WNV
Tulare	DLTA 8530	4153	Cx quinquefasciatus	Visalia	50	GRVD	7/6/2023	WNV
Tulare	DLTA 8530	4154	Cx quinquefasciatus	Visalia	50	GRVD	7/6/2023	WNV
Tulare	DLTA 8530	4385	Cx quinquefasciatus	Visalia	26	GRVD	7/13/2023	WNV
Tulare	DLTA 8530	4386	Cx quinquefasciatus	Visalia	26	BGSENT	7/13/2023	WNV
Tulare	DLTA 85301	4271	Cx quinquefasciatus	Visalia	12	GRVD	7/11/2023	WNV
Tulare	DLTA 85304	4027	Cx quinquefasciatus	Visalia	50	GRVD	6/30/2023	WNV
Tulare	DLTA 85304	4028	Cx quinquefasciatus	Visalia	22	GRVD	6/30/2023	WNV
Tulare	DLTA 8532	4142	Cx quinquefasciatus	Visalia	28	GRVD	7/6/2023	WNV
Tulare	DLTA 8532	4142	Cx quinquefasciatus	Visalia	28	GRVD	7/6/2023	SLEV
Tulare	DLTA 8532	4369	Cx quinquefasciatus	Visalia	29	GRVD	7/12/2023	WNV
Tulare	DLTA 8533	4007	Cx quinquefasciatus	Visalia	20	GRVD	6/30/2023	WNV
Tulare	DLTA 8533	4247	Cx quinquefasciatus	Visalia	10	BGSENT	7/7/2023	WNV
Tulare	DLTA 8534	3875	Cx quinquefasciatus	Visalia	23	BGSENT	6/28/2023	WNV
Tulare	DLTA 8534	3876	Cx tarsalis	Visalia	45	BGSENT	6/28/2023	WNV
Tulare	DLTA 8534	3935	Cx quinquefasciatus	Visalia	31	BGSENT	6/29/2023	SLEV
Tulare	DLTA 8534	4061	Cx quinquefasciatus	Visalia	50	BGSENT	6/30/2023	WNV
Tulare	DLTA 8534	4062	Cx quinquefasciatus	Visalia	50	BGSENT	6/30/2023	WNV
Tulare	DLTA 8534	4063	Cx quinquefasciatus	Visalia	22	BGSENT	6/30/2023	WNV
Tulare	DLTA 9401	4310	Cx quinquefasciatus	Visalia	47	BGSENT	7/11/2023	WNV
Tulare	DLTA 9401	4312	Cx tarsalis	Visalia	13	BGSENT	7/11/2023	WNV
Tulare	DLTA 9401	4397	Cx quinquefasciatus	Visalia	10	GRVD	7/13/2023	WNV
Tulare	DLTA 94022	4333	Cx quinquefasciatus	Visalia	14	GRVD	7/12/2023	WNV
Tulare	DLTA 94034	4019	Cx quinquefasciatus	Visalia	40	GRVD	6/30/2023	WNV
Tulare	DLTA 9411	4392	Cx quinquefasciatus	Visalia	22	BGSENT	7/13/2023	WNV
Tulare	DLTA 9412	4078	Cx quinquefasciatus	Visalia	44	BGSENT	6/30/2023	WNV
Tulare	DLTA 9412	4078	Cx quinquefasciatus	Visalia	44	BGSENT	6/30/2023	SLEV
Tulare	DLTA 94122	4334	Cx quinquefasciatus	Visalia	14	GRVD	7/12/2023	WNV
Tulare	DLTA 9501	4248	Cx quinquefasciatus	Farmersville	11	BGSENT	7/7/2023	WNV
Tulare	DLTA 9504	4148	Cx quinquefasciatus	Visalia	18	GRVD	7/6/2023	WNV
Tulare	DLTA 9504	4319	Cx quinquefasciatus	Visalia	10	GRVD	7/12/2023	WNV
Tulare	DLTA 9505	4241	Cx quinquefasciatus	Visalia	17	BGSENT	7/7/2023	WNV
Tulare	DLTA 9506	4323	Cx quinquefasciatus	Visalia	16	GRVD	7/12/2023	WNV
Tulare	DLTA 9506	4353	Cx quinquefasciatus	Visalia	18	BGSENT	7/12/2023	WNV
Tulare	DLTA 95064	4055	Cx quinquefasciatus	Visalia	50	BGSENT	6/30/2023	WNV
Tulare	DLTA 95064	4056	Cx quinquefasciatus	Visalia	18	BGSENT	6/30/2023	WNV
Tulare	DLTA 95064	4226	Cx quinquefasciatus	Visalia	10	GRVD	7/7/2023	WNV
Tulare	DLTA 9511	3939	Cx tarsalis	Farmersville	50	BGSENT	6/29/2023	WNV

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Tulare	DLTA 96033	4137	Cx quinquefasciatus	Exeter	17	GRVD	7/6/2023	WNV
Tulare	DLTA 96034	4245	Cx quinquefasciatus	Exeter	38	GRVD	7/7/2023	WNV
Tulare	DLTA 9606	4160	Cx quinquefasciatus	Farmersville	50	GRVD	7/6/2023	WNV
Tulare	DLTA 9606	4246	Cx quinquefasciatus	Farmersville	21	GRVD	7/7/2023	WNV
Tulare	DLTA 96064	4018	Cx quinquefasciatus	Farmersville	13	BGSENT	6/30/2023	WNV
Tulare	DLTA 9609	4279	Cx quinquefasciatus	Exeter	11	BGSENT	7/11/2023	WNV
Tulare	DLTA 9610	4278	Cx quinquefasciatus	Exeter	12	GRVD	7/11/2023	WNV
Tulare	DLTA 961511	4256	Cx quinquefasciatus	Exeter	50	CO2	7/7/2023	WNV
Tulare	DLTA 961511	4257	Cx quinquefasciatus	Exeter	23	CO2	7/7/2023	WNV
Tulare	DLTA 961511	4258	Cx tarsalis	Exeter	35	CO2	7/7/2023	WNV
Tulare	TLRE 184	55	Cx quinquefasciatus	Visalia	16	GRVD	6/30/2023	WNV
Tulare	TLRE 193	57	Cx quinquefasciatus	Visalia	21	GRVD	6/30/2023	WNV
Yolo	DAVI 90015	25	Cx tarsalis	Davis	50	CO2	7/6/2023	WNV
Yolo	DAVI 90017	49	Cx tarsalis	Davis	50	CO2	7/6/2023	WNV
Yolo	DAVI 90029	88	Cx tarsalis	Davis	50	CO2	7/6/2023	WNV
Yolo	DAVI 90029	94	Cx pipiens	Davis	50	CO2	7/6/2023	WNV
Yolo	SAYO 103005	2538	Cx tarsalis	Dunnigan	40	CO2	7/11/2023	WNV
Yolo	SAYO 103007	2525	Cx tarsalis	Dunnigan	50	CO2	7/11/2023	WNV
Yolo	SAYO 103010	2641	Cx pipiens	Woodland	50	CO2	7/11/2023	WNV
Yolo	SAYO 103010	2642	Cx pipiens	Woodland	50	CO2	7/11/2023	WNV
Yolo	SAYO 103010	2651	Cx tarsalis	Woodland	40	CO2	7/11/2023	WNV
Yolo	SAYO 114001	2598	Cx tarsalis	Zamora	50	CO2	7/11/2023	WNV
Yolo	SAYO 114001	2600	Cx tarsalis	Zamora	50	CO2	7/11/2023	WNV
Yolo	SAYO 115008	2558	Cx tarsalis	Woodland	50	CO2	7/11/2023	WNV
Yolo	SAYO 115008	2559	Cx tarsalis	Woodland	50	CO2	7/11/2023	WNV
Yolo	SAYO 123010	2381	Cx tarsalis	Esparto	50	CO2	7/7/2023	WNV
Yolo	SAYO 135005	2370	Cx tarsalis	Woodland	50	CO2	7/7/2023	WNV
Yolo	SAYO 135013	2404	Cx tarsalis	Woodland	50	CO2	7/7/2023	WNV
Yolo	SAYO 145003	2579	Cx tarsalis	Davis	50	CO2	7/11/2023	WNV
Yolo	SAYO 145003	2580	Cx tarsalis	Davis	50	CO2	7/11/2023	WNV
Yolo	SAYO 145009	2503	Cx tarsalis	Davis	50	CO2	7/11/2023	WNV
Yolo	SAYO 145009	2505	Cx pipiens	Davis	13	GRVD	7/11/2023	WNV
Yolo	SAYO 145021	2551	Cx tarsalis	Davis	36	CO2	7/11/2023	WNV
Yolo	SAYO 145028	2611	Cx tarsalis	Davis	50	CO2	7/11/2023	WNV
Yolo	SAYO 146002	2497	Cx pipiens	Davis	21	GRVD	7/11/2023	WNV
Yolo	SAYO 146017	2507	Cx tarsalis	Davis	50	CO2	7/11/2023	WNV
Yolo	SAYO 211	2543	Cx tarsalis	Dunnigan	50	CO2	7/11/2023	WNV
Yuba	SUYA 37	273	Cx tarsalis	Marysville	50	CO2	7/13/2023	WNV



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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)