

## California Arbovirus Surveillance Bulletin #19

Week 33 Friday, August 16, 2024



### WEEKLY UPDATE

#### **Humans**

##### West Nile virus

A total of 4 new human cases of West Nile virus (WNV) disease were reported this week from 3 counties: Butte (1), Orange (1), and Santa Clara (2). **These are the first human cases of WNV disease reported for Orange and Santa Clara counties this year.** In 2024, 13 human cases of WNV disease were reported from 8 counties. Of the 13 cases, 8 (62%) had neuroinvasive disease and 2 (15%) were fatal. The median age of the case-patients was 48 years and 10 (77%) of the case-patients were male. The dates of symptom onset ranged from May 28 to July 28. In addition to the 9 cases of WNV disease, 7 asymptomatic WNV-positive blood donors have been reported from 4 counties: Butte (2), Fresno (3), San Bernardino (1), and Stanislaus (1). At this time last year, 26 human cases of WNV disease had been reported from 12 counties.

##### St. Louis encephalitis virus

No human cases of St. Louis encephalitis virus (SLEV) disease have been reported. At this time last year, 1 human case of SLEV disease had been reported from 1 county.

#### **Dead Birds**

A total of 36 new WNV positive dead birds were reported from 8 counties: Alameda (5), Los Angeles (1), Placer (1), Sacramento (3), San Joaquin (1), San Mateo (5), Santa Clara (19), and Yuba (1). **This is the first WNV positive dead bird from Placer County this year.** In 2024, 254 WNV positive dead birds have been reported from 17 counties. At this time last year, 287 WNV positive dead birds had been reported from 22 counties.

#### **Mosquito Pools**

##### West Nile virus

A total of 204 new WNV positive mosquito pools were reported from 21 counties: Alameda (1), Butte (13), Contra Costa (2), Fresno (8), Kern (12), Kings (3), Lake (1), Los Angeles (17), Madera (11), Merced (2), Orange (4), Placer (12), Riverside (7), Sacramento (18), San Bernardino (12), San Joaquin (33), Santa Clara (4), Shasta (9), Stanislaus (4), Tulare (12), and Yolo (19). In 2024, 1,042 WNV positive mosquito pools have been reported from 25 counties. At this time last year, 2,458 WNV positive mosquito pools had been reported from 26 counties.

##### St. Louis encephalitis virus

No new SLEV positive mosquito pools were reported. In 2024, 13 SLEV positive mosquito pools have been reported from 3 counties: Fresno (9), Imperial (1), and Tulare (3). At this time last year, 213 SLEV positive mosquito pools had been reported from 11 counties.

#### **Sentinel Chickens**

A total of 3 new WNV positive chickens were reported this week from 1 county: Contra Costa (3). In 2024, 49 WNV positive sentinel chickens have been reported from 8 counties. At this time last year, 69 WNV positive chickens had been reported from 7 counties.

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<b>2023 &amp; 2024 YTD West Nile Virus Comparisons</b>		
	<b>2023</b>	<b>2024</b>
Total No. Dead Bird Reports	4,116	4,339
No. Positive Counties	31	28
No. Human Cases	26	13
No. Positive Dead Birds / No. Tested	287 / 1,138	254 / 1,229
No. Positive Mosquito Pools / No. Tested	2,458 / 32,987	1,042 / 29,866
No. Seroconversions / No. Tested	69 / 2,405	49 / 2,729

<b>YTD WNV Activity by Element and County, 2024</b>					
<b>County</b>	<b>Humans</b>	<b>Horses</b>	<b>Dead Birds</b>	<b>Mosquito Pools</b>	<b>Sentinel Chickens</b>
Alameda			32	16	
Butte	3		4	43	11
Colusa			1		
Contra Costa	1		4	4	8
Fresno	1			140	
Imperial				2	
Kern				30	
Kings	1			31	
Lake			1	9	3
Los Angeles			6	55	
Madera				29	
Merced				16	5
Orange	1		1	16	
Placer		1	1	55	
Riverside	2		2	201	
Sacramento		1	49	38	
San Bernardino			6	57	
San Diego			2		
San Joaquin		1	5	108	
San Mateo			14		
Santa Clara	2		123	18	
Shasta				17	
Solano				6	4
Stanislaus				23	
Sutter				22	6
Tulare				50	6
Yolo			1	29	
Yuba	2	1	2	27	6
<b>Totals</b>	<b>13</b>	<b>4</b>	<b>254</b>	<b>1,042</b>	<b>49</b>

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### TESTING SUMMARIES

		WNV	SLEV	WEEV
<b>Human Cases</b>	Week	4	0	0
	YTD	13	0	0

Positive / Total Tested					
WNV	SLEV	WEEV	CHIK	DENV	ZIKA

<b>Dead Birds</b>	Week	36 / 91
	YTD	254 / 1,229

<b>Chicken Sera</b>	Week	3 / 69	0 / 69	0 / 69
	YTD	49 / 2,729	0 / 2,729	0 / 2,729

<b>Mosquito Pools</b>	Week	204 / 1,503	0 / 1,337	0 / 1,337	0 / 12	0 / 12	0 / 12
	YTD	1,042 / 29,866	13 / 27,786	0 / 26,104	0 / 474	0 / 474	0 / 474

### POSITIVES

#### Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Newark	94560	American Crow	8/9/2024	WNV
Alameda	Alameda Co MAD	Fremont	94538	American Crow	8/9/2024	WNV
Alameda	Alameda Co MAD	Newark	94560	American Crow	8/9/2024	WNV
Alameda	Alameda Co MAD	Hayward	94544	American Crow	8/9/2024	WNV
Alameda	Alameda Co MAD	Livermore	94550	Western Bluebird	8/12/2024	WNV
Los Angeles	San Gabriel Valley MVCD	Baldwin Park	91706	American Crow	8/13/2024	WNV
Placer	Placer MVCD	Auburn	95603	American Crow	8/12/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	American Crow	8/11/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Yellow-billed Magpie	8/12/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95834	American Crow	8/13/2024	WNV
San Joaquin	San Joaquin Co MVCD	Lodi	95240	Yellow-billed Magpie	8/13/2024	WNV
San Mateo	San Mateo Co MVCD	Menlo Park	94025	American Crow	8/6/2024	WNV
San Mateo	San Mateo Co MVCD	Atherton	94027	American Crow	8/12/2024	WNV
San Mateo	San Mateo Co MVCD	Menlo Park	94025	American Crow	8/12/2024	WNV
San Mateo	San Mateo Co MVCD	Menlo Park	94025	American Crow	8/13/2024	WNV
San Mateo	San Mateo Co MVCD	Menlo Park	94025	American Crow	8/14/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	8/8/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	8/9/2024	WNV
Santa Clara	Santa Clara Co VCD	Mountain View	94040	American Crow	8/10/2024	WNV
Santa Clara	Santa Clara Co VCD	Milpitas	95035	American Crow	8/11/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	Unknown - Crow or Raven	8/12/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95118	Common Raven	8/12/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95120	American Crow	8/12/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	8/12/2024	WNV
Santa Clara	Santa Clara Co VCD	Milpitas	95035	American Crow	8/12/2024	WNV

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Santa Clara	Santa Clara Co VCD	San Jose	95138	American Crow	8/12/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95112	American Crow	8/12/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	8/12/2024	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95054	Unknown - Crow or Raven	8/12/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	8/13/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	8/13/2024	WNV
Santa Clara	Santa Clara Co VCD	Milpitas	95035	American Crow	8/13/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	Mourning Dove	8/14/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95125	American Crow	8/14/2024	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	Unknown - Crow or Raven	8/14/2024	WNV
Yuba	Sutter-Yuba MVCD	Olivehurst	95961	Lesser Goldfinch	8/7/2024	WNV

### Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Alameda	ALCO 839499	33264	Cx tarsalis	Fremont	42	CO2	8/13/2024	WNV
Butte	BUCO 141	251	Cx tarsalis	Oroville	50	CO2	8/6/2024	WNV
Butte	BUCO 141	252	Cx tarsalis	Oroville	50	CO2	8/6/2024	WNV
Butte	BUCO 146	247	Cx tarsalis	Palermo	50	CO2	8/5/2024	WNV
Butte	BUCO 146	249	Cx tarsalis	Palermo	50	CO2	8/5/2024	WNV
Butte	BUCO 147	264	Cx tarsalis	Gridley	50	CO2	8/7/2024	WNV
Butte	BUCO 147	265	Cx tarsalis	Gridley	50	CO2	8/7/2024	WNV
Butte	BUCO 169	255	Cx tarsalis	Nelson	50	CO2	8/5/2024	WNV
Butte	BUCO 185	262	Cx tarsalis	Gridley	50	CO2	8/7/2024	WNV
Butte	BUCO 185	263	Cx tarsalis	Gridley	50	CO2	8/7/2024	WNV
Butte	BUCO 37	257	Cx tarsalis	Honcut	50	CO2	8/6/2024	WNV
Butte	BUCO 37	258	Cx tarsalis	Honcut	50	CO2	8/6/2024	WNV
Butte	BUCO 37	259	Cx tarsalis	Honcut	50	CO2	8/6/2024	WNV
Butte	BUCO 9	266	Cx tarsalis	Chico	42	CO2	8/6/2024	WNV
Contra Costa	CNTR 2302	1288	Cx tarsalis	Martinez	50	CO2	8/13/2024	WNV
Contra Costa	CNTR 766548	1275	Cx tarsalis	Bethel Island	39	CO2	8/13/2024	WNV
Fresno	CNSL 2086	506	Cx quinquefasciatus	Sanger	50	GRVD	8/8/2024	WNV
Fresno	CNSL 2522	200	Cx quinquefasciatus	Sanger	47	GRVD	8/8/2024	WNV
Fresno	CNSL 2529	199	Cx quinquefasciatus	Sanger	50	GRVD	8/8/2024	WNV
Fresno	CNSL 3202	196	Cx quinquefasciatus	Reedley	47	GRVD	8/8/2024	WNV
Fresno	CNSL 4040	198	Cx quinquefasciatus	Selma	50	GRVD	8/8/2024	WNV
Fresno	CNSL 4096	197	Cx quinquefasciatus	Selma	21	GRVD	8/8/2024	WNV
Fresno	CNSL 4318	505	Cx quinquefasciatus	Selma	50	GRVD	8/8/2024	WNV
Fresno	CNSL 4373	504	Cx quinquefasciatus	Selma	50	GRVD	8/8/2024	WNV
Kern	DLNO 0	127	Cx tarsalis	Delano	50	CO2	8/1/2024	WNV
Kern	DLNO 103	140	Cx quinquefasciatus	Mcfarland	50	CO2	8/13/2024	WNV
Kern	DLNO 103	141	Cx stigmatosoma	Mcfarland	39	CO2	8/13/2024	WNV
Kern	DLNO 103	142	Cx tarsalis	Mcfarland	50	CO2	8/13/2024	WNV
Kern	DLNO 62	135	Cx quinquefasciatus	Mcfarland	50	CO2	8/6/2024	WNV
Kern	DLNO 62	136	Cx tarsalis	Mcfarland	50	CO2	8/6/2024	WNV
Kern	DLNO 79	130	Cx quinquefasciatus	Mcfarland	48	BGSENT	8/7/2024	WNV
Kern	KERN 110	306	Cx quinquefasciatus	Bakersfield	50	CO2	8/6/2024	WNV
Kern	KERN 3027	304	Cx tarsalis	Arvin	49	CO2	8/6/2024	WNV
Kern	KERN 3030	297	Cx tarsalis	Shafter	45	CO2	8/6/2024	WNV
Kern	KERN 33	301	Cx tarsalis	Arvin	29	CO2	8/6/2024	WNV
Kern	KERN 47	296	Cx quinquefasciatus	Buttonwillow	26	GRVD	8/6/2024	WNV
Kings	KNGS 3122	113	Cx tarsalis	Hanford	50	CO2	8/8/2024	WNV
Kings	KNGS 3122	115	Cx tarsalis	Hanford	50	CO2	8/8/2024	WNV
Kings	KNGS 8014	100	Cx tarsalis	Laton	50	CO2	8/6/2024	WNV
Lake	LAKE 130	264	Cx tarsalis	Lower Lake	50	CO2	8/14/2024	WNV
Los Angeles	GRLA 2414	5693	Cx quinquefasciatus	Granada Hills	50	GRVD	8/7/2024	WNV
Los Angeles	GRLA 2419	5690	Cx quinquefasciatus	Panorama City	50	GRVD	8/7/2024	WNV
Los Angeles	GRLA 2478	5710	Cx quinquefasciatus	Hansen Dam	50	GRVD	8/9/2024	WNV
Los Angeles	GRLA 2550	5713	Cx quinquefasciatus	Mission Hills	42	GRVD	8/9/2024	WNV
Los Angeles	GRLA 2580	5684	Cx quinquefasciatus	Sherman Oaks	38	GRVD	8/7/2024	WNV

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Los Angeles	GRLA 2637	5689	Cx quinquefasciatus	Van Nuys	50	GRVD	8/7/2024	WNV
Los Angeles	GRLA 2650	5687	Cx quinquefasciatus	Van Nuys	50	GRVD	8/7/2024	WNV
Los Angeles	GRLA 2655	5688	Cx quinquefasciatus	Sepulveda Basin	50	GRVD	8/7/2024	WNV
Los Angeles	GRLA 2889	593	Cx quinquefasciatus	Lakewood	50	GRVD	8/7/2024	WNV
Los Angeles	GRLA 3034	5692	Cx quinquefasciatus	North Hills	50	GRVD	8/7/2024	WNV
Los Angeles	GRLA 3036	5701	Cx quinquefasciatus	Canoga Park	50	GRVD	8/8/2024	WNV
Los Angeles	GRLA 3062	600	Cx quinquefasciatus	Los Angeles	50	GRVD	8/9/2024	WNV
Los Angeles	LACW 1048	878	Cx quinquefasciatus	Inglewood	50	CO2	7/25/2024	WNV
Los Angeles	LACW 1054	887	Cx quinquefasciatus	Inglewood	50	CO2	8/1/2024	WNV
Los Angeles	LACW 1054	888	Cx quinquefasciatus	Inglewood	50	CO2	8/1/2024	WNV
Los Angeles	SGVA 1069	543	Cx quinquefasciatus	La Puente	49	GRVD	8/13/2024	WNV
Los Angeles	SGVA 7	548	Cx quinquefasciatus	Claremont	50	GRVD	8/13/2024	WNV
Madera	MADR 12360	360	Cx tarsalis	Madera	50	CO2	8/6/2024	WNV
Madera	MADR 12363	361	Cx tarsalis	Madera	50	CO2	8/6/2024	WNV
Madera	MADR 12369	402	Cx quinquefasciatus	Madera, Ca	36	CO2	8/9/2024	WNV
Madera	MADR 198	399	Cx tarsalis	Madera	50	CO2	8/8/2024	WNV
Madera	MADR 237	384	Cx quinquefasciatus	Madera	50	CO2	8/7/2024	WNV
Madera	MADR 276	367	Cx tarsalis	Madera	50	CO2	8/6/2024	WNV
Madera	MADR 358	368	Cx tarsalis	Firebaugh	50	CO2	8/6/2024	WNV
Madera	MADR 363	370	Cx tarsalis	Firebaugh	50	CO2	8/6/2024	WNV
Madera	MADR 581	359	Cx tarsalis	Madera	50	CO2	8/6/2024	WNV
Madera	MADR 688	363	Cx quinquefasciatus	Madera	31	CO2	8/6/2024	WNV
Madera	MADR 752	365	Cx tarsalis	Firebaugh	50	CO2	8/6/2024	WNV
Merced	MERC 201720	294	Cx tarsalis	Hilmar	19	BGSENT	8/8/2024	WNV
Merced	MERC 636427	305	Cx pipiens	Hilmar	40	CO2	8/8/2024	WNV
Orange	ORCO 1033	1867	Cx quinquefasciatus	Tustin	25	GRVD	8/13/2024	WNV
Orange	ORCO 208	1937	Cx quinquefasciatus	Santa Ana	20	CO2	8/14/2024	WNV
Orange	ORCO 250	1927	Cx quinquefasciatus	Irvine	19	GRVD	8/14/2024	WNV
Orange	ORCO 82	1738	Cx quinquefasciatus	Cypress	35	GRVD	8/6/2024	WNV
Placer	PLCR 1113	1002	Cx tarsalis	Pleasant Grove	11	CO2	8/13/2024	WNV
Placer	PLCR 1114	1010	Cx tarsalis	Lincoln	50	CO2	8/13/2024	WNV
Placer	PLCR 1114	1011	Cx tarsalis	Lincoln	44	CO2	8/13/2024	WNV
Placer	PLCR 191373	1003	Cx tarsalis	Unknown	50	CO2	8/13/2024	WNV
Placer	PLCR 191373	1004	Cx tarsalis	Unknown	8	CO2	8/13/2024	WNV
Placer	PLCR 191998	990	Cx tarsalis	Lincoln	50	CO2	8/13/2024	WNV
Placer	PLCR 197802	996	Cx tarsalis	Elverta	50	CO2	8/13/2024	WNV
Placer	PLCR 197802	998	Cx tarsalis	Elverta	50	CO2	8/13/2024	WNV
Placer	PLCR 197802	999	Cx tarsalis	Elverta	50	CO2	8/13/2024	WNV
Placer	PLCR 25	1012	Cx tarsalis	Lincoln	50	CO2	8/13/2024	WNV
Placer	PLCR 25	1013	Cx tarsalis	Lincoln	45	CO2	8/13/2024	WNV
Placer	PLCR 719276	974	Cx tarsalis	Roseville	13	CO2	8/13/2024	WNV
Riverside	COAV 121	4612	Cx tarsalis	Mecca	50	CO2	8/13/2024	WNV
Riverside	COAV 121	4613	Cx tarsalis	Mecca	50	CO2	8/13/2024	WNV
Riverside	COAV 121	4614	Cx tarsalis	Mecca	50	CO2	8/13/2024	WNV
Riverside	COAV 122	4649	Cx tarsalis	Mecca	32	CO2	8/13/2024	WNV
Riverside	COAV 123	4682	Cx tarsalis	Mecca	50	CO2	8/13/2024	WNV
Riverside	COAV 123	4683	Cx tarsalis	Mecca	50	CO2	8/13/2024	WNV
Riverside	COAV 774	4499	Cx quinquefasciatus	Indio	11	BGSENT	8/13/2024	WNV
Sacramento	SAYO 204035	3218	Cx tarsalis	Sacramento	3	CO2	8/7/2024	WNV
Sacramento	SAYO 204051	3287	Cx pipiens	Citrus Heights	10	CO2	8/9/2024	WNV
Sacramento	SAYO 204316	2696	Cx pipiens	Citrus Heights	9	GRVD	7/26/2024	WNV
Sacramento	SAYO 204317	2413	Cx pipiens	Citrus Heights	13	GRVD	7/19/2024	WNV
Sacramento	SAYO 214011	3065	Cx pipiens	Fair Oaks	10	GRVD	8/2/2024	WNV
Sacramento	SAYO 214020	3284	Cx pipiens	Rancho Cordova	4	GRVD	8/9/2024	WNV
Sacramento	SAYO 214031	3280	Cx pipiens	Fair Oaks	15	GRVD	8/9/2024	WNV
Sacramento	SAYO 222064	3409	Cx pipiens	Sacramento	8	CO2	8/13/2024	WNV
Sacramento	SAYO 232025	2531	Cx pipiens	Sacramento	16	GRVD	7/23/2024	WNV
Sacramento	SAYO 233009	2497	Cx pipiens	Elk Grove	43	CO2	7/23/2024	WNV
Sacramento	SAYO 233009	2499	Cx tarsalis	Elk Grove	18	CO2	7/23/2024	WNV
Sacramento	SAYO 243009	2791	Cx pipiens	Elk Grove	50	CO2	7/30/2024	WNV
Sacramento	SAYO 271003	2409	Cx tarsalis	Isleton	50	CO2	7/19/2024	WNV
Sacramento	SAYO 432636	2630	Cx tarsalis	Isleton	50	CO2	7/26/2024	WNV



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Sacramento	SAYO 432636	2631	Cx tarsalis	Isleton	50	CO2	7/26/2024	WNV
Sacramento	SAYO 432636	2632	Cx tarsalis	Isleton	18	CO2	7/26/2024	WNV
Sacramento	SAYO 432807	3225	Cx pipiens	Fair Oaks	13	CO2	8/7/2024	WNV
Sacramento	SAYO 63	3134	Cx pipiens	Sacramento	23	GRVD	8/6/2024	WNV
San Bernardino	WVAL 1007	1608	Cx quinquefasciatus	Ontario	33	CO2	8/14/2024	WNV
San Bernardino	WVAL 5456	1644	Cx quinquefasciatus	Chino	50	BGSENT	8/15/2024	WNV
San Bernardino	WVAL 5682	1651	Cx quinquefasciatus	R. Cucamonga	6	BGSENT	8/15/2024	WNV
San Bernardino	WVAL 5758	1599	Cx quinquefasciatus	Ontario	50	BGSENT	8/14/2024	WNV
San Bernardino	WVAL 5766	1631	Cx quinquefasciatus	Chino	50	BGSENT	8/15/2024	WNV
San Bernardino	WVAL 5795	1637	Cx quinquefasciatus	Chino	50	BGSENT	8/15/2024	WNV
San Bernardino	WVAL 5798	1680	Cx quinquefasciatus	Chino	46	BGSENT	8/16/2024	WNV
San Bernardino	WVAL 6051	1648	Cx quinquefasciatus	Chino	3	BGSENT	8/15/2024	WNV
San Bernardino	WVAL 6055	1640	Cx quinquefasciatus	Ontario	17	BGSENT	8/15/2024	WNV
San Bernardino	WVAL 6236	1602	Cx quinquefasciatus	Ontario	50	BGSENT	8/14/2024	WNV
San Bernardino	WVAL 6236	1603	Cx quinquefasciatus	Ontario	50	BGSENT	8/14/2024	WNV
San Bernardino	WVAL 6236	1604	Cx quinquefasciatus	Ontario	38	BGSENT	8/14/2024	WNV
San Joaquin	SJCM 8008	1187	Cx tarsalis	Manteca	50	CO2	8/6/2024	WNV
San Joaquin	SJCM 8009	1155	Cx tarsalis	Stockton	34	CO2	8/6/2024	WNV
San Joaquin	SJCM 8009	1156	Cx pipiens	Stockton	6	CO2	8/6/2024	WNV
San Joaquin	SJCM 8018	1162	Cx tarsalis	Stockton	50	CO2	8/6/2024	WNV
San Joaquin	SJCM 8018	1163	Cx tarsalis	Stockton	50	CO2	8/6/2024	WNV
San Joaquin	SJCM 8018	1164	Cx tarsalis	Stockton	50	CO2	8/6/2024	WNV
San Joaquin	SJCM 8018	1165	Cx tarsalis	Stockton	50	CO2	8/6/2024	WNV
San Joaquin	SJCM 8018	1166	Cx tarsalis	Stockton	48	CO2	8/6/2024	WNV
San Joaquin	SJCM 8018	1235	Cx tarsalis	Stockton	50	CO2	8/13/2024	WNV
San Joaquin	SJCM 8018	1236	Cx tarsalis	Stockton	50	CO2	8/13/2024	WNV
San Joaquin	SJCM 8018	1237	Cx tarsalis	Stockton	50	CO2	8/13/2024	WNV
San Joaquin	SJCM 8018	1238	Cx tarsalis	Stockton	50	CO2	8/13/2024	WNV
San Joaquin	SJCM 8018	1239	Cx tarsalis	Stockton	50	CO2	8/13/2024	WNV
San Joaquin	SJCM 8018	1240	Cx tarsalis	Stockton	17	CO2	8/13/2024	WNV
San Joaquin	SJCM 8022	1195	Cx tarsalis	Holt	50	CO2	8/6/2024	WNV
San Joaquin	SJCM 8083	1191	Cx pipiens	Escalon	50	CO2	8/6/2024	WNV
San Joaquin	SJCM 8083	1192	Cx pipiens	Escalon	50	CO2	8/6/2024	WNV
San Joaquin	SJCM 8083	1193	Cx pipiens	Escalon	50	CO2	8/6/2024	WNV
San Joaquin	SJCM 8097	1203	Cx pipiens	Banta	13	CO2	8/6/2024	WNV
San Joaquin	SJCM 8111	1221	Cx tarsalis	Stockton	25	CO2	8/13/2024	WNV
San Joaquin	SJCM 8191	1175	Cx tarsalis	Lodi	50	CO2	8/6/2024	WNV
San Joaquin	SJCM 8199	1189	Cx tarsalis	Manteca	13	CO2	8/6/2024	WNV
San Joaquin	SJCM 8199	1292	Cx tarsalis	Manteca	29	CO2	8/13/2024	WNV
San Joaquin	SJCM 8206	1209	Cx tarsalis	Lodi	50	CO2	8/6/2024	WNV
San Joaquin	SJCM 8206	1212	Cx tarsalis	Lodi	50	CO2	8/6/2024	WNV
San Joaquin	SJCM 8206	1214	Cx tarsalis	Lodi	50	CO2	8/6/2024	WNV
San Joaquin	SJCM 8206	1262	Cx tarsalis	Lodi	50	CO2	8/13/2024	WNV
San Joaquin	SJCM 8206	1266	Cx tarsalis	Lodi	50	CO2	8/13/2024	WNV
San Joaquin	SJCM 8209	1242	Cx tarsalis	Lodi	37	CO2	8/13/2024	WNV
San Joaquin	SJCM 8210	1282	Cx pipiens	Escalon	15	CO2	8/13/2024	WNV
San Joaquin	SJCM 8228	1198	Cx tarsalis	Escalon	50	CO2	8/6/2024	WNV
San Joaquin	SJCM 8228	1286	Cx pipiens	Escalon	7	CO2	8/13/2024	WNV
San Joaquin	SJCM 8233	1228	Cx tarsalis	Stockton	13	CO2	8/13/2024	WNV
Santa Clara	STCL 31409	2255	Cx tarsalis	San Jose	2	CO2	8/13/2024	WNV
Santa Clara	STCL 31443	2329	Cx tarsalis	San Jose	2	CO2	8/14/2024	WNV
Santa Clara	STCL 31874	2261	Cx pipiens	San Jose	2	CO2	8/13/2024	WNV
Santa Clara	STCL 32242	2275	Cx pipiens	Palo Alto	6	GRVD	8/13/2024	WNV
Shasta	SHAS 116	540	Cx pipiens	Anderson	50	CO2	8/13/2024	WNV
Shasta	SHAS 139	543	Cx tarsalis	Lake California	38	CO2	8/13/2024	WNV
Shasta	SHAS 148	542	Cx tarsalis	Cottonwood	39	CO2	8/13/2024	WNV
Shasta	SHAS 20040	550	Cx tarsalis	Redding	50	CO2	8/14/2024	WNV
Shasta	SHAS 375	561	Cx tarsalis	Bella Vista	26	CO2	8/14/2024	WNV
Shasta	SHAS 375	562	Cx tarsalis	Bella Vista	50	CO2	8/14/2024	WNV
Shasta	SHAS 618	537	Cx tarsalis	Anderson	47	CO2	8/13/2024	WNV
Shasta	SHAS 621	553	Cx tarsalis	Redding	26	CO2	8/14/2024	WNV
Shasta	SHAS 93	545	Cx tarsalis	Anderson	27	CO2	8/13/2024	WNV

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Stanislaus	TRLK 1209	439	Cx tarsalis	Ceres	33	CO2	8/13/2024	WNV
Stanislaus	TRLK 1214	443	Cx pipiens	Turlock	50	CO2	8/13/2024	WNV
Stanislaus	TRLK 24275	431	Cx tarsalis	Crows Landing	25	CO2	8/7/2024	WNV
Stanislaus	TRLK 432	445	Cx pipiens	Turlock	42	CO2	8/13/2024	WNV
Tulare	DLNO 245	137	Cx tarsalis	Delano	24	CO2	8/13/2024	WNV
Tulare	DLTA 162326	2559	Cx quinquefasciatus	Dinuba	15	GRVD	8/9/2024	WNV
Tulare	DLTA 64161	2501	Cx quinquefasciatus	Dinuba	17	GRVD	8/7/2024	WNV
Tulare	DLTA 64174	2537	Cx quinquefasciatus	Dinuba	22	GRVD	8/8/2024	WNV
Tulare	DLTA 8324	2489	Cx quinquefasciatus	Goshen	14	BGSENT	8/6/2024	WNV
Tulare	DLTA 8414	2516	Cx quinquefasciatus	Visalia	34	BGSENT	8/7/2024	WNV
Tulare	DLTA 84223	2531	Cx quinquefasciatus	Visalia	32	BGSENT	8/8/2024	WNV
Tulare	DLTA 84231	2499	Cx quinquefasciatus	Visalia	26	BGSENT	8/6/2024	WNV
Tulare	DLTA 84233	2528	Cx quinquefasciatus	Visalia	41	BGSENT	8/8/2024	WNV
Tulare	DLTA 962621	2530	Cx stigmatosoma	Exeter	29	CO2	8/8/2024	WNV
Tulare	TLRE 202409	82	Cx quinquefasciatus	Tulare	50	GRVD	8/7/2024	WNV
Tulare	TLRE 202415	83	Cx quinquefasciatus	Tulare	50	GRVD	8/7/2024	WNV
Yolo	SAYO 103007	2819	Cx tarsalis	Dunnigan	50	CO2	7/30/2024	WNV
Yolo	SAYO 134012	2650	Cx tarsalis	Monument Hills	50	CO2	7/26/2024	WNV
Yolo	SAYO 135006	2351	Cx tarsalis	Woodland	50	CO2	7/19/2024	WNV
Yolo	SAYO 135006	2949	Cx tarsalis	Woodland	28	CO2	8/2/2024	WNV
Yolo	SAYO 135006	3304	Cx tarsalis	Woodland	50	CO2	8/9/2024	WNV
Yolo	SAYO 135016	2302	Cx tarsalis	Woodland	50	CO2	7/19/2024	WNV
Yolo	SAYO 135016	2656	Cx tarsalis	Woodland	50	CO2	7/26/2024	WNV
Yolo	SAYO 135016	2958	Cx tarsalis	Woodland	50	CO2	8/2/2024	WNV
Yolo	SAYO 135018	2672	Cx tarsalis	Woodland	50	CO2	7/26/2024	WNV
Yolo	SAYO 135029	2326	Cx tarsalis	Woodland	3	GRVD	7/19/2024	WNV
Yolo	SAYO 145013	2554	Cx pipiens	Davis	20	CO2	7/23/2024	WNV
Yolo	SAYO 145013	2557	Cx tarsalis	Davis	36	CO2	7/23/2024	WNV
Yolo	SAYO 145016	2548	Cx tarsalis	Davis	50	CO2	7/23/2024	WNV
Yolo	SAYO 145016	3151	Cx tarsalis	Davis	12	CO2	8/6/2024	WNV
Yolo	SAYO 146002	3157	Cx tarsalis	Davis	39	CO2	8/6/2024	WNV
Yolo	SAYO 146006	3176	Cx tarsalis	Davis	50	CO2	8/6/2024	WNV
Yolo	SAYO 432179	2448	Cx tarsalis	Woodland	50	CO2	7/23/2024	WNV
Yolo	SAYO 433663	3366	Cx tarsalis	Davis	11	BGSENT	8/12/2024	WNV
Yolo	SAYO 93	3446	Cx tarsalis	Davis	43	CO2	8/13/2024	WNV

### Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03
Contra Costa	CNTR 8152	Knightsen	8/12/2024	WNV	2277	2280	2281

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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)*