

## California Arbovirus Surveillance Bulletin #28

Week 42 Friday, October 20, 2023



### WEEKLY UPDATE

#### Humans

##### West Nile virus

A total of 28 new human cases of West Nile virus (WNV) were reported this week from 12 counties: Contra Costa (3), El Dorado (1), Fresno (4), Kern (4), Lake (1), Los Angeles (6), Orange (1), San Luis Obispo (1), San Mateo (1), Stanislaus (3), Sutter (1), and Yolo (2). **These are the first WNV positive human cases from San Luis Obispo and San Mateo counties this year.** In 2023, a total of 271 human cases of WNV have been reported from 31 counties. Of the 271 cases, 197 (73%) had neuroinvasive disease and 9 (3%) were fatal. The median age of the case-patients was 58 years and 174 (64%) of the case-patients were male. The dates of symptom onset ranged from June 30 to September 27. In addition to the 271 WNV human cases, 20 asymptomatic WNV-positive blood donors have been reported from 14 counties: Amador (1), Butte (1), Contra Costa (1), Fresno (2), Kern (1), Kings (2), Los Angeles (3), Orange (1), Riverside (1), San Bernardino (2), San Joaquin (1), San Mateo (1), Stanislaus (1), and Yolo (2). At this time last year, 99 WNV human cases had been reported from 21 counties.

##### St. Louis encephalitis virus

A total of 3 new human cases of St. Louis encephalitis virus (SLEV) were reported this week from 3 counties: Fresno (1), Marin (1), and Yolo (1). **These are the first SLEV positive human cases from Fresno, Marin, and Yolo counties this year.** In 2023, 6 SLEV human cases have been reported from 5 counties. At this time last year, 8 SLEV human cases had been reported from 4 counties.

#### Dead Birds

A total of 25 new WNV positive dead birds were reported from 6 counties: Alameda (9), Contra Costa (3), Los Angeles (3), Orange (1), Sacramento (1), and Santa Clara (8). In 2023, 831 WNV positive dead birds have been reported from 31 counties. At this time last year, 185 WNV positive dead birds had been reported from 23 counties.

#### Mosquito Pools

##### West Nile virus

A total of 81 new positive mosquito pools were reported from 11 counties: Contra Costa (2), Fresno (2), Los Angeles (22), Orange (28), Riverside (13), Sacramento (1), San Bernardino (5), San Joaquin (3), Sonoma (1), Tulare (3), and Yolo (1). In 2023, 4,386 WNV positive mosquito pools have been reported from 31 counties. At this time last year, 3,110 WNV positive mosquito pools had been reported from 26 counties.

##### St. Louis encephalitis virus

A total of 23 new positive mosquito pools were reported from 4 counties: Fresno (4), Kern (2), San Joaquin (1) and Tulare (16). In 2023, 714 SLEV positive mosquito pools have been reported from 15 counties. At this time last year, 148 SLEV positive mosquito pools had been reported from 9 counties.

#### Sentinel Chickens

##### West Nile virus

A total of 4 new WNV positive chickens were reported this week from 3 counties: Alameda (1), Butte (1), and Sacramento (2). In 2023, 183 WNV positive chickens have been reported from 17 counties. At this time last year, 144 WNV positive chickens had been reported from 13 counties.

##### St. Louis encephalitis virus

No new SLEV positive chickens were reported this week. In 2023, 1 SLEV positive chicken has been reported from 1 county. At this time last year, no SLEV positive chickens had been reported.

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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	4,443	6,172
No. Positive Counties	32	42
No. Human Cases	99	271
No. Positive Dead Birds / No. Tested	185 / 1,219	831 / 1,907
No. Positive Mosquito Pools / No. Tested	3,100 / 38,568	4,386 / 50,096
No. Seroconversions / No. Tested	144 / 4,879	183 / 3,412

<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			75	15	4
Butte	18	1	2	69	33
Calaveras					3
Colusa	1		2	2	2
Contra Costa	7		94	24	11
El Dorado	3		4		
Fresno	10	2	1	231	
Glenn	4			1	
Imperial				3	
Inyo				2	
Kern	12	2		107	
Kings	6	1		70	
Lake	5		8	25	
Los Angeles	27		44	520	27
Madera	5	1	1	207	
Marin			2		
Merced	8	2		43	22
Monterey	1				
Napa		1	4	7	
Nevada	1		1		2
Orange	3	1	2	182	
Placer	5	1	43	177	
Riverside	12	3	67	159	
Sacramento	29	3	194	342	8
San Benito			1		5
San Bernardino	18	2	11	155	
San Diego			7	1	
San Joaquin	12	2	20	607	
San Luis Obispo	1	2	1		
San Mateo	1		12		
Santa Clara	1	1	111	16	
Shasta	6		2	151	5
Siskiyou		1			
Solano	4		18	24	11
Sonoma			16	4	
Stanislaus	24	2	6	293	
Sutter	6		6	66	19
Tehama					4
Tulare	14	1	5	563	10
Ventura	1		4		
Yolo	21		67	294	10
Yuba	5	1		26	7
<b>Totals</b>	<b>271</b>	<b>30</b>	<b>831</b>	<b>4,386</b>	<b>183</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	1	158	
Imperial		3	
Inyo		1	
Kern	1	73	
Kings		44	
Madera		47	
Marin	1		
Merced		12	
Napa		1	
Placer		1	
Riverside		115	
San Joaquin		9	
Shasta		3	1
Stanislaus	2	23	
Tulare		221	
Yolo	1	3	
Totals	6	714	1

### TESTING SUMMARIES

		WNV	SLEV	WEEV
<b>Human Cases</b>	Week	28	3	0
	YTD	271	6	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
<b>Dead Birds</b>	Week	25 / 43					
	YTD	831 / 1,907					
<b>Chicken Sera</b>	Week	4 / 80	0 / 80	0 / 80			
	YTD	183 / 3,412	1 / 3,412	0 / 3,412			
<b>Mosquito Pools</b>	Week	81 / 1,408	23 / 1,237	0 / 1,237	0 / 86	0 / 86	0 / 86
	YTD	4,386 / 50,096	714 / 45,031	0 / 45,031	0 / 886	0 / 886	0 / 886

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### NEW POSITIVES

#### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Fremont	94555	American Crow	2023-10-09	WNV
Alameda	Alameda Co MAD	Hayward	94544	American Crow	2023-10-13	WNV
Alameda	Alameda Co MAD	Livermore	94550	American Crow	2023-10-11	WNV
Alameda	Alameda Co MAD	Livermore	94551	American Crow	2023-10-18	WNV
Alameda	Alameda Co MAD	Livermore	94551	American Crow	2023-10-20	WNV
Alameda	Alameda Co MAD	Newark	94560	American Crow	2023-10-19	WNV
Alameda	Alameda Co MAD	Newark	94560	Common Raven	2023-10-18	WNV
Alameda	Alameda Co MAD	San Lorenzo	94580	American Crow	2023-10-17	WNV
Alameda	Alameda Co MAD	alameda	94502	American Crow	2023-10-18	WNV
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	2023-10-12	WNV
Contra Costa	Contra Costa MVCD	Concord	94519	American Crow	2023-10-12	WNV
Contra Costa	Contra Costa MVCD	San Ramon	94583	American Crow	2023-10-12	WNV
Los Angeles	Antelope Valley MVCD	Palmdale	93550	Sharp-shinned Hawk	2023-10-03	WNV
Los Angeles	Greater Los Angeles Co VCD	Lakewood	90712	Unknown - Crow or Raven	2023-10-11	WNV
Los Angeles	Los Angeles Co West VCD	Manhattan Beach	90266	American Crow	2023-10-12	WNV
Orange	Orange Co VCD	Anaheim	92782	American Crow	2023-10-16	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	2023-10-12	WNV
Santa Clara	Santa Clara Co VCD	Campbell	95008	American Crow	2023-10-17	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	2023-10-12	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95128	American Crow	2023-10-13	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95116	American Crow	2023-10-17	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95120	American Crow	2023-10-17	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95112	California Scrub-Jay	2023-10-17	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95054	American Crow	2023-10-17	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95050	American Crow	2023-10-17	WNV

#### Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus
Contra Costa	CNTR 4013	1739	Cx tarsalis	Concord	35	CO2	10/17/2023	WNV
Contra Costa	CNTR 8152	1737	Cx tarsalis	Knightsen	10	CO2	10/17/2023	WNV
Fresno	CNSL 1040	345	Cx quinquefasciatus	Fresno	22	GRVD	10/13/2023	WNV
Fresno	CNSL 3481	340	Cx stigmatosoma	Reedley	20	GRVD	10/11/2023	SLEV
Fresno	CNSL 8232	341	Cx quinquefasciatus	Sanger	42	GRVD	10/11/2023	WNV
Fresno	FRNO 88	990	Cx quinquefasciatus	Fresno	50	GRVD	10/17/2023	SLEV
Fresno	FRWS 30045	512	Cx quinquefasciatus	Firebaugh	50	BGSENT	10/12/2023	SLEV
Fresno	FRWS 4110	515	Cx tarsalis	Mendota	50	CO2	10/17/2023	SLEV
Kern	DLNO 114	373	Cx quinquefasciatus	Delano	50	BGSENT	10/11/2023	SLEV
Kern	DLNO 208	372	Cx quinquefasciatus	Delano	50	CO2	10/06/2023	SLEV
Los Angeles	GRLA 2228	867	Cx quinquefasciatus	Diamond Bar	50	GRVD	10/12/2023	WNV
Los Angeles	GRLA 2434	5923	Cx quinquefasciatus	Chatsworth	22	GRVD	10/12/2023	WNV
Los Angeles	GRLA 3009	5928	Cx quinquefasciatus	Santa Clarita	50	BGSENT	10/13/2023	WNV
Los Angeles	GRLA 3027	5907	Cx quinquefasciatus	Studio City	50	GRVD	10/11/2023	WNV
Los Angeles	GRLA 3028	5922	Cx quinquefasciatus	West Hills	50	GRVD	10/12/2023	WNV
Los Angeles	GRLA 3036	5921	Cx quinquefasciatus	Canoga Park	50	GRVD	10/12/2023	WNV
Los Angeles	GRLA 3052	870	Cx quinquefasciatus	La Habra Heights	50	GRVD	10/12/2023	WNV
Los Angeles	GRLA 3063	876	Cx quinquefasciatus	Watts	50	GRVD	10/13/2023	WNV
Los Angeles	GRLA 3064	877	Cx quinquefasciatus	West Athens Village	50	GRVD	10/13/2023	WNV
Los Angeles	GRLA 3069	5913	Cx quinquefasciatus	Valley Village	50	GRVD	10/11/2023	WNV
Los Angeles	SGVA 1022	1002	Cx quinquefasciatus	Azusa	50	GRVD	10/17/2023	WNV
Los Angeles	SGVA 1066	985	Cx quinquefasciatus	Pomona	50	GRVD	10/17/2023	WNV
Los Angeles	SGVA 1071	990	Cx quinquefasciatus	Monterey Park	50	GRVD	10/17/2023	WNV
Los Angeles	SGVA 1148	991	Cx quinquefasciatus	Pomona	50	GRVD	10/17/2023	WNV
Los Angeles	SGVA 1281	1047	Cx quinquefasciatus	Covina	50	GRVD	10/20/2023	WNV
Los Angeles	SGVA 1351	1026	Cx quinquefasciatus	Rosemead	39	GRVD	10/19/2023	WNV
Los Angeles	SGVA 1352	1018	Cx quinquefasciatus	Rosemead	50	GRVD	10/19/2023	WNV
Los Angeles	SGVA 1352	1019	Cx quinquefasciatus	Rosemead	50	GRVD	10/19/2023	WNV
Los Angeles	SGVA 297	997	Cx quinquefasciatus	Monterey Park	50	GRVD	10/17/2023	WNV
Los Angeles	SGVA 451	1006	Cx quinquefasciatus	Glendora	15	GRVD	10/17/2023	WNV
Los Angeles	SGVA 505	995	Cx quinquefasciatus	Monterey Park	50	GRVD	10/17/2023	WNV

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Los Angeles	SGVA 91	1022	Cx quinquefasciatus	West Covina	7	GRVD	10/19/2023	WNV
Orange	ORCO 1005	4765	Cx quinquefasciatus	Buena Park	50	GRVD	10/17/2023	WNV
Orange	ORCO 1005	4773	Cx quinquefasciatus	Buena Park	50	GRVD	10/17/2023	WNV
Orange	ORCO 1015	4848	Cx quinquefasciatus	Orange	38	GRVD	10/18/2023	WNV
Orange	ORCO 1015	4851	Cx quinquefasciatus	Orange	31	GRVD	10/18/2023	WNV
Orange	ORCO 1015	4852	Cx quinquefasciatus	Orange	30	GRVD	10/18/2023	WNV
Orange	ORCO 1023	4857	Cx quinquefasciatus	Villa Park	28	GRVD	10/18/2023	WNV
Orange	ORCO 1023	4858	Cx quinquefasciatus	Villa Park	27	GRVD	10/18/2023	WNV
Orange	ORCO 170	4878	Cx quinquefasciatus	Anaheim	42	GRVD	10/18/2023	WNV
Orange	ORCO 218	4769	Cx quinquefasciatus	Anaheim	50	GRVD	10/17/2023	WNV
Orange	ORCO 218	4771	Cx quinquefasciatus	Anaheim	50	GRVD	10/17/2023	WNV
Orange	ORCO 218	4772	Cx quinquefasciatus	Anaheim	25	GRVD	10/17/2023	WNV
Orange	ORCO 218	4778	Cx quinquefasciatus	Anaheim	50	GRVD	10/17/2023	WNV
Orange	ORCO 218	4783	Cx quinquefasciatus	Anaheim	47	GRVD	10/17/2023	WNV
Orange	ORCO 218	4786	Cx quinquefasciatus	Anaheim	50	GRVD	10/17/2023	WNV
Orange	ORCO 238	4812	Cx quinquefasciatus	Anaheim	50	GRVD	10/17/2023	WNV
Orange	ORCO 238	4813	Cx quinquefasciatus	Anaheim	50	GRVD	10/17/2023	WNV
Orange	ORCO 29	4906	Cx quinquefasciatus	Santa Ana	50	CO2	10/19/2023	WNV
Orange	ORCO 29	4907	Cx quinquefasciatus	Santa Ana	50	CO2	10/19/2023	WNV
Orange	ORCO 29	4908	Cx quinquefasciatus	Santa Ana	50	CO2	10/19/2023	WNV
Orange	ORCO 29	4909	Cx quinquefasciatus	Santa Ana	21	CO2	10/19/2023	WNV
Orange	ORCO 300	4894	Cx quinquefasciatus	Westminster	44	GRVD	10/18/2023	WNV
Orange	ORCO 302	4871	Cx quinquefasciatus	Anaheim	50	GRVD	10/18/2023	WNV
Orange	ORCO 335	4864	Cx quinquefasciatus	Orange	40	GRVD	10/18/2023	WNV
Orange	ORCO 338	4883	Cx quinquefasciatus	Anaheim	31	GRVD	10/18/2023	WNV
Orange	ORCO 343	4809	Cx quinquefasciatus	Orange	28	GRVD	10/17/2023	WNV
Orange	ORCO 364	4896	Cx quinquefasciatus	Garden Grove	46	GRVD	10/18/2023	WNV
Orange	ORCO 366	4833	Cx quinquefasciatus	Orange	30	GRVD	10/17/2023	WNV
Orange	ORCO 81	4893	Cx quinquefasciatus	Seal Beach	31	GRVD	10/18/2023	WNV
Riverside	COAV 116	6646	Cx tarsalis	North Shore	50	CO2	10/17/2023	WNV
Riverside	COAV 123	6947	Cx tarsalis	Mecca	50	CO2	10/17/2023	WNV
Riverside	COAV 140	7049	Cx tarsalis	Mecca	50	CO2	10/17/2023	WNV
Riverside	COAV 344	6963	Cx quinquefasciatus	La Quinta	50	BGSENT	10/17/2023	WNV
Riverside	COAV 418	6887	Cx quinquefasciatus	Indian Wells	50	BGSENT	10/13/2023	WNV
Riverside	COAV 46	6931	Cx tarsalis	Mecca	50	CO2	10/17/2023	WNV
Riverside	COAV 789	7070	Cx quinquefasciatus	Cathedral City	48	BGSENT	10/19/2023	WNV
Riverside	COAV 791	7136	Cx quinquefasciatus	Palm Springs	50	BGSENT	10/18/2023	WNV
Riverside	COAV 815	7146	Cx quinquefasciatus	Indian Wells	40	BGSENT	10/19/2023	WNV
Riverside	RIVR 141	374	Cx tarsalis	Nuevo	31	CO2	10/11/2023	WNV
Riverside	RIVR 51	378	Cx tarsalis	Moreno Valley	11	CO2	10/11/2023	WNV
Riverside	RIVR 54	375	Cx tarsalis	Moreno Valley	50	CO2	10/11/2023	WNV
Riverside	RIVR 7	371	Cx tarsalis	Nuevo	50	CO2	10/11/2023	WNV
Sacramento	SAYO 236002	7798	Cx tarsalis	Rancho Murieta	1	GRVD	10/13/2023	WNV
San Bernardino	WVAL 5004	2919	Cx quinquefasciatus	Rancho Cucamonga	32	GRVD	10/17/2023	WNV
San Bernardino	WVAL 6002	2993	Cx tarsalis	Ontario	12	CO2	10/18/2023	WNV
San Bernardino	WVAL 8001	2947	Cx stigmatosoma	Chino	9	CO2	10/17/2023	WNV
San Bernardino	WVAL 8001	2950	Cx quinquefasciatus	Chino	11	CO2	10/17/2023	WNV
San Bernardino	WVAL 8001	2953	Cx erythrothorax	Chino	50	CO2	10/17/2023	WNV
San Joaquin	SJCM 8010	3081	Cx tarsalis	Ripon	38	CO2	10/17/2023	SLEV
San Joaquin	SJCM 8206	3068	Cx tarsalis	Lodi	100	CO2	10/17/2023	WNV
San Joaquin	SJCM 8206	3069	Cx tarsalis	Lodi	95	CO2	10/17/2023	WNV
San Joaquin	SJCM 8206	3070	Cx pipiens	Lodi	50	CO2	10/17/2023	WNV
Sonoma	MARN 564	652	Cx stigmatosoma	Petaluma	38	GRVD	10/17/2023	WNV
Tulare	DLNO 209	368	Cx quinquefasciatus	Earlimart	49	BGSENT	10/04/2023	SLEV
Tulare	DLNO 57	370	Cx quinquefasciatus	Delano	50	CO2	10/06/2023	SLEV
Tulare	DLTA 6407	6754	Cx quinquefasciatus	Dinuba	21	BGSENT	10/04/2023	SLEV
Tulare	DLTA 8425	6885	Cx quinquefasciatus	Visalia	25	BGSENT	10/06/2023	SLEV
Tulare	DLTA 84253	6796	Cx quinquefasciatus	Visalia	10	BGSENT	10/05/2023	SLEV
Tulare	DLTA 84274	6658	Cx quinquefasciatus	Visalia	45	BGSENT	09/29/2023	SLEV
Tulare	DLTA 84352	6744	Cx quinquefasciatus	Visalia	27	BGSENT	10/4/2023	WNV
Tulare	DLTA 8436	6751	Cx quinquefasciatus	Visalia	19	BGSENT	10/04/2023	SLEV
Tulare	DLTA 8436	6866	Cx quinquefasciatus	Visalia	46	BGSENT	10/06/2023	SLEV
Tulare	DLTA 8508	6818	Cx quinquefasciatus	Visalia	19	BGSENT	10/05/2023	SLEV
Tulare	DLTA 8534	6870	Cx quinquefasciatus	Visalia	50	BGSENT	10/6/2023	WNV
Tulare	DLTA 8534	6871	Cx quinquefasciatus	Visalia	50	BGSENT	10/6/2023	WNV
Tulare	DLTA 9401	6840	Cx quinquefasciatus	Visalia	31	BGSENT	10/06/2023	SLEV
Tulare	DLTA 94034	6882	Cx quinquefasciatus	Visalia	50	BGSENT	10/06/2023	SLEV
Tulare	DLTA 94122	6784	Cx quinquefasciatus	Visalia	29	BGSENT	10/04/2023	SLEV
Tulare	DLTA 9503	6755	Cx quinquefasciatus	Visalia	19	BGSENT	10/04/2023	SLEV

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Tulare	DLTA 950924	6814	Cx quinquefasciatus	Visalia	33	CO2	10/05/2023	SLEV
Tulare	DLTA 9511	6819	Cx quinquefasciatus	Farmersville	50	BGSENT	10/05/2023	SLEV
Tulare	DLTA 961233	6729	Cx stigmatosoma	Exeter	40	CO2	10/03/2023	SLEV
Yolo	SAYO 124007	7801	Cx pipiens	Woodland	1	CO2	10/13/2023	WNV

### Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02
Alameda	ACVC 13	Livermore	10/13/2023	WNV	1810	
Butte	BUCO 7	Chico	10/10/2023	WNV	2166	
Sacramento	SAYO 236001	Rancho Murieta	10/5/2023	WNV	2666	2697

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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)