

## California Arbovirus Surveillance Bulletin #25

Week 40 Friday, October 2, 2020



### Weekly Update

#### **Humans**

##### West Nile virus

A total of 3 human cases of West Nile virus (WNV) illness were reported this week from 3 counties: Madera (1), Orange (1), and Tulare (1). In 2020, a total of 93 human WNV cases have been reported from 18 counties. Of the 93 cases, 67 (72%) had neuroinvasive illness and 3 (3.2%) were fatal. The median age of the individuals was 61 years, and 59 (63%) were male. Dates of symptom onset ranged from June 16 to September 14. In addition to the 93 cases, 11 asymptomatic WNV infections have been reported from Fresno (2), Los Angeles (3), Merced (1), Orange (1), Sacramento (1), San Joaquin (1), and Stanislaus (2) counties. At this time last year, 128 human WNV cases had been reported from 19 counties.

##### St. Louis encephalitis virus

No new cases were reported this week. In 2020, one human SLEV case has been reported from one county (Madera). At this time last year, five human SLEV cases had been reported from three counties.

#### **Dead Birds**

A total of 12 WNV positive dead birds were reported this week from 5 counties: Los Angeles (5), Sacramento (3), San Mateo (1), Santa Clara (1), and Yolo (2). **This is the first detection of WNV from San Mateo County this year.** In 2020, a total of 273 WNV positive dead birds have been reported from 19 counties. At this time last year, 186 WNV positive dead birds had been reported from 19 counties.

#### **Mosquito Pools**

##### West Nile virus

A total of 93 WNV positive mosquito pools were reported this week from 12 counties: Fresno (10), Kern (2), Kings (11), Los Angeles (39), Madera (2), Orange (9), Riverside (2), Sacramento (1), San Joaquin (9), Stanislaus (5), Tulare (2), and Yolo (1). In 2020, a total of 2,388 WNV positive mosquito pools have been reported from 27 counties. At this time last year, 3,206 WNV positive mosquito pools had been reported from 24 counties.

##### St. Louis encephalitis virus

A total of 24 SLEV positive mosquito pools were reported this week from 5 counties: Fresno (16), Kings (4), Madera (1), Riverside (2), and Tulare (1). In 2020, a total of 473 SLEV positive mosquito pools have been reported from 9 counties: Fresno (210), Imperial (10), Kern (29), Kings (11), Madera (14), Riverside (158), San Joaquin (2), Stanislaus (1), and Tulare (38). At this time last year, 337 SLEV positive mosquito pools had been reported from 12 counties.

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### Sentinel Chickens

A total of 23 WNV positive chickens were reported this week from 10 counties: Butte (2), Contra Costa (2), Los Angeles (7), Sacramento (3), San Benito (1), Shasta (1), Solano (1), Sutter (3), Tehama (2), and Yolo (1). **This is the first detection of WNV activity in San Benito County, and the first WNV positive chicken reported from Yolo County this year.** In 2020, a total of 115 chickens have tested positive for WNV from 15 counties. At this time last year, 119 WNV positive chickens had been reported from 16 counties.

2019 & 2020 YTD West Nile Virus Comparisons		
	2019	2020
Total # Dead Bird Reports	4,787	4,808
# Positive Counties	33	35
# Human Cases	128	93
# Positive Dead Birds / # Tested	186 / 1,520	273 / 1,349
# Positive Mosquito Pools / # Tested	3,206 / 39,493	2,388 / 35,284
# Seroconversions / # Tested	119 / 7,652	115 / 5,409

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<b>YTD WNV Activity by Element and County, 2020</b>					
<b>County</b>	<b>Humans</b>	<b>Horses</b>	<b>Dead Birds</b>	<b>Mosquito Pools</b>	<b>Sentinel Chickens</b>
Alameda			2		
Amador		1			
Butte	4	1	3	28	23
Contra Costa	2		17	12	4
El Dorado	1				
Fresno	6		5	309	
Glenn	1	1		3	2
Imperial				3	
Kern				82	
Kings	1	1		85	
Lake				12	2
Los Angeles	27		71	350	20
Madera	4			75	
Marin			1		
Merced	4	1	2	41	14
Napa			1	2	
Nevada		1			
Orange	6		38	236	
Placer	1		2	58	
Riverside	3	2	2	62	
Sacramento	1		84	105	4
San Benito					1
San Bernardino		1		12	
San Diego	1			2	
San Joaquin		2	4	250	
San Mateo			1		
Santa Clara			6	8	
Shasta				25	3
Solano			1	8	2
Stanislaus	26	3	4	350	
Sutter	1			20	24
Tehama					5
Tulare	3		3	173	9
Yolo	1		26	75	1
Yuba				2	1
<b>Totals</b>	<b>93</b>	<b>14</b>	<b>273</b>	<b>2,388</b>	<b>115</b>

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## TESTING SUMMARIES

### Humans

		WNV	SLEV	WEEV
Human Cases	Week	3	0	0
	YTD	93	1	0

### Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	48	12
	YTD	1,349	273

### Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	236	23	0	0
	YTD	5,409	115	0	0

### Mosquitoes

		Positive / Total Tested					
Mosquito Pools	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA
		93 / 1,726	24 / 1,649	0 / 1,483	0 / 32	0 / 32	0 / 32
		YTD	2,388 / 35,284	473 / 33,489	0 / 31,013	0 / 473	0 / 473

## NEW POSITIVES

### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Los Angeles	Greater Los Angeles Co VCD - SFS	Cerritos	90703	American Crow	9/23/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Long Beach	90808	American Crow	9/13/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Long Beach	90808	American Crow	9/17/2020	WNV
Los Angeles	Long Beach Animal Control	Long Beach	90810	American Crow	9/24/2020	WNV
Los Angeles	Los Angeles Co West VCD	Venice	90291	American Crow	9/24/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95829	Western Bluebird	9/23/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95838	California Scrub-Jay	9/22/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	American Crow	9/25/2020	WNV
San Mateo	San Mateo Co MVCD	South San Francisco	94080	American Crow	9/22/2020	WNV
Santa Clara	Santa Clara Co VCD	Saratoga	95070	American Crow	9/24/2020	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	White-crowned Sparrow	9/26/2020	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	California Scrub-Jay	9/28/2020	WNV

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**Mosquito Pools**

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Fresno	CNSL1254	1546	Cx. quinquefasciatus	Clovis	27	GRVD	9/24/2020	SLEV
Fresno	CNSL1453	1270	Cx. quinquefasciatus	Fresno	50	GRVD	9/25/2020	SLEV
Fresno	CNSL1610	1268	Cx. quinquefasciatus	Fresno	21	GRVD	9/25/2020	SLEV
Fresno	CNSL1638	1545	Cx. quinquefasciatus	Clovis	50	GRVD	9/24/2020	SLEV
Fresno	CNSL1661	1239	Cx. quinquefasciatus	Clovis	50	GRVD	9/22/2020	SLEV
Fresno	CNSL1874	1532	Cx. quinquefasciatus	Clovis	50	GRVD	9/22/2020	SLEV
Fresno	CNSL2556	1563	Cx. tarsalis	Sanger	50	CO2	9/25/2020	SLEV
Fresno	CNSL3109	1553	Cx. quinquefasciatus	Reedley	50	GRVD	9/25/2020	WNV
Fresno	CNSL3245	1262	Cx. quinquefasciatus	Reedley	50	GRVD	9/25/2020	SLEV
Fresno	CNSL5037	1554	Cx. quinquefasciatus	Kingsburg	50	GRVD	9/25/2020	WNV
Fresno	CNSL5038	1539	Cx. quinquefasciatus	Kingsburg	50	GRVD	9/23/2020	WNV
Fresno	CNSL5038	1539	Cx. quinquefasciatus	Kingsburg	50	GRVD	9/23/2020	SLEV
Fresno	CNSL5117	1555	Cx. quinquefasciatus	Kingsburg	50	GRVD	9/25/2020	SLEV
Fresno	CNSL5183	1248	Cx. quinquefasciatus	Kingsburg	35	GRVD	9/23/2020	WNV
Fresno	CNSL5202	1247	Cx. quinquefasciatus	Kingsburg	18	GRVD	9/23/2020	WNV
Fresno	CNSL8001	1244	Cx. quinquefasciatus	Clovis	16	GRVD	9/22/2020	SLEV
Fresno	CNSL8104	1558	Cx. quinquefasciatus	Fresno	49	GRVD	9/25/2020	WNV
Fresno	CNSL9163	1253	Cx. quinquefasciatus	Clovis	22	GRVD	9/24/2020	SLEV
Fresno	CNSL9165	1252	Cx. quinquefasciatus	Clovis	23	GRVD	9/24/2020	SLEV
Fresno	FRWS100006	388	Cx. tarsalis	Dos Palos	50	CO2	9/29/2020	WNV
Fresno	FRWS1202	379	Cx. tarsalis	Dos Palos	50	CO2	9/29/2020	SLEV
Fresno	FRWS1202	380	Cx. tarsalis	Dos Palos	50	CO2	9/29/2020	WNV
Fresno	FRWS200002	373	Cx. tarsalis	Firebaugh	50	CO2	9/29/2020	SLEV
Fresno	FRWS200003	376	Cx. tarsalis	Dos Palos	50	CO2	9/29/2020	WNV
Fresno	FRWS300011	382	Cx. tarsalis	Firebaugh	50	CO2	9/29/2020	SLEV
Fresno	FRWS40043	361	Cx. tarsalis	Tranquillity	50	CO2	9/24/2020	WNV
Kern	DLNO80	308	Cx. quinquefasciatus	McFarland	50	CO2	9/23/2020	WNV
Kern	WEST6305	27	Cx. tarsalis	Bakersfield	21	CO2	9/30/2020	WNV
Kings	KNGS3004	559	Cx. tarsalis	Lemoore	50	CO2	9/18/2020	WNV
Kings	KNGS3004	560	Cx. tarsalis	Lemoore	50	CO2	9/18/2020	WNV
Kings	KNGS3038	517	Cx. tarsalis	Stratford	50	CO2	9/15/2020	WNV
Kings	KNGS3072	544	Cx. tarsalis	Hanford	31	CO2	9/17/2020	WNV
Kings	KNGS3121	529	Cx. tarsalis	Riverdale	50	CO2	9/16/2020	WNV
Kings	KNGS3121	530	Cx. tarsalis	Riverdale	44	CO2	9/16/2020	WNV
Kings	KNGS3121	530	Cx. tarsalis	Riverdale	44	CO2	9/16/2020	SLEV
Kings	KNGS3121	531	Cx. pipiens	Riverdale	35	CO2	9/16/2020	WNV
Kings	KNGS55021	551	Cx. pipiens	Hanford	17	BGSENT	9/18/2020	WNV
Kings	KNGS55024	535	Cx. pipiens	Hanford	14	BGSENT	9/17/2020	SLEV
Kings	KNGS5508	545	Cx. pipiens	Hanford	30	BGSENT	9/18/2020	WNV
Kings	KNGS5519	513	Cx. pipiens	Hanford	44	BGSENT	9/15/2020	WNV
Kings	KNGS5519	513	Cx. pipiens	Hanford	44	BGSENT	9/15/2020	SLEV
Kings	KNGS8033	527	Cx. tarsalis	Hanford	34	CO2	9/16/2020	WNV
Kings	KNGS8033	527	Cx. tarsalis	Hanford	34	CO2	9/16/2020	SLEV
Los Angeles	ANTV4453	127	Cx. quinquefasciatus	Palmdale	11	GRVD	10/1/2020	WNV
Los Angeles	ANTV969438	123	Cx. quinquefasciatus	Palmdale	3	BGSENT	9/30/2020	WNV
Los Angeles	GRLA2007	5901	Cx. quinquefasciatus	Toluca Lake	50	GRVD	9/24/2020	WNV
Los Angeles	GRLA2017	5903	Cx. quinquefasciatus	Toluca Lake	22	GRVD	9/24/2020	WNV

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Los Angeles	GRLA2097	662	Cx. quinquefasciatus	La Mirada	15	GRVD	9/23/2020	WNV
Los Angeles	GRLA2115	656	Cx. quinquefasciatus	Bell	50	GRVD	9/22/2020	WNV
Los Angeles	GRLA2166	670	Cx. quinquefasciatus	Montebello	50	GRVD	9/23/2020	WNV
Los Angeles	GRLA2270	647	Cx. quinquefasciatus	Bellflower	27	GRVD	9/22/2020	WNV
Los Angeles	GRLA2554	5870	Cx. quinquefasciatus	Winnetka	33	GRVD	9/22/2020	WNV
Los Angeles	GRLA2866	5883	Cx. quinquefasciatus	Studio City	33	GRVD	9/23/2020	WNV
Los Angeles	GRLA2866	5885	Cx. quinquefasciatus	Studio City	44	GRVD	9/23/2020	WNV
Los Angeles	GRLA2866	5887	Cx. quinquefasciatus	Studio City	20	GRVD	9/23/2020	WNV
Los Angeles	GRLA2866	5888	Cx. quinquefasciatus	Studio City	15	GRVD	9/23/2020	WNV
Los Angeles	GRLA2952	661	Cx. quinquefasciatus	South Whittier	19	GRVD	9/23/2020	WNV
Los Angeles	GRLA2953	664	Cx. quinquefasciatus	Santa Fe Springs	50	GRVD	9/23/2020	WNV
Los Angeles	GRLA2955	666	Cx. quinquefasciatus	Cerritos	50	GRVD	9/23/2020	WNV
Los Angeles	GRLA3027	5899	Cx. quinquefasciatus	Studio City	34	GRVD	9/24/2020	WNV
Los Angeles	GRLA3039	5900	Cx. quinquefasciatus	Los Angeles	31	GRVD	9/24/2020	WNV
Los Angeles	GRLA3040	663	Cx. quinquefasciatus	La Mirada	39	GRVD	9/23/2020	WNV
Los Angeles	GRLA3041	667	Cx. quinquefasciatus	Artesia	50	GRVD	9/23/2020	WNV
Los Angeles	GRLA3048	669	Cx. quinquefasciatus	Pico Rivera	34	GRVD	9/23/2020	WNV
Los Angeles	GRLA3054	657	Cx. quinquefasciatus	Bell Gardens	51	GRVD	9/22/2020	WNV
Los Angeles	GRLA3055	655	Cx. quinquefasciatus	Maywood	50	GRVD	9/22/2020	WNV
Los Angeles	GRLA3057	653	Cx. quinquefasciatus	Huntington Park	50	GRVD	9/22/2020	WNV
Los Angeles	GRLA3060	665	Cx. quinquefasciatus	Norwalk	35	GRVD	9/23/2020	WNV
Los Angeles	GRLA3062	683	Cx. quinquefasciatus	Florence-Firestone	50	GRVD	9/25/2020	WNV
Los Angeles	GRLA3066	5909	Cx. quinquefasciatus	Valley Glen	50	GRVD	9/24/2020	WNV
Los Angeles	GRLA3069	5907	Cx. quinquefasciatus	Valley Village	50	GRVD	9/24/2020	WNV
Los Angeles	GRLA3080	5908	Cx. quinquefasciatus	North Hollywood	50	GRVD	9/24/2020	WNV
Los Angeles	GRLA3084	678	Cx. quinquefasciatus	Commerce	50	GRVD	9/25/2020	WNV
Los Angeles	GRLA3089	5896	Cx. quinquefasciatus	Glendale	20	GRVD	9/23/2020	WNV
Los Angeles	GRLA3102	5904	Cx. quinquefasciatus	Studio City	50	GRVD	9/24/2020	WNV
Los Angeles	LACW1002	559	Cx. quinquefasciatus	Torrance	13	CO2	9/22/2020	WNV
Los Angeles	LACW1048	572	Cx. quinquefasciatus	Inglewood	27	CO2	9/24/2020	WNV
Los Angeles	SGVA1077	1123	Cx. quinquefasciatus	La Puente	48	GRVD	9/29/2020	WNV
Los Angeles	SGVA291	1136	Cx. quinquefasciatus	El Monte	50	GRVD	9/29/2020	WNV
Los Angeles	SGVA445	1138	Cx. quinquefasciatus	Rosemead	50	GRVD	9/29/2020	WNV
Los Angeles	SGVA62	1099	Cx. quinquefasciatus	Covina	50	GRVD	9/29/2020	WNV
Los Angeles	SGVA64	1112	Cx. quinquefasciatus	West Covina	50	GRVD	9/29/2020	WNV
Madera	MADR192	436	Cx. quinquefasciatus	Madera	13	CO2	9/25/2020	WNV
Madera	MADR195	439	Cx. tarsalis	Madera	35	CO2	9/25/2020	WNV
Madera	MADR195	439	Cx. tarsalis	Madera	35	CO2	9/25/2020	SLEV
Orange	ORCO1008	4502	Cx. quinquefasciatus	Fullerton	9	GRVD	9/29/2020	WNV
Orange	ORCO1025	4511	Cx. quinquefasciatus	Costa Mesa	42	GRVD	9/29/2020	WNV
Orange	ORCO1038	4542	Cx. quinquefasciatus	La Palma	27	GRVD	9/29/2020	WNV
Orange	ORCO2	4523	Cx. quinquefasciatus	Fullerton	33	GRVD	9/29/2020	WNV
Orange	ORCO236	4559	Cx. quinquefasciatus	Garden Grove	48	GRVD	9/29/2020	WNV
Orange	ORCO304	4516	Cx. quinquefasciatus	Placentia	41	GRVD	9/29/2020	WNV
Orange	ORCO321	4553	Cx. quinquefasciatus	Anaheim	28	GRVD	9/29/2020	WNV
Orange	ORCO34	4556	Cx. quinquefasciatus	Brea	36	GRVD	9/29/2020	WNV
Orange	ORCO50	4533	Cx. quinquefasciatus	Buena Park	19	GRVD	9/29/2020	WNV
Riverside	COAV10	4031	Cx. tarsalis	Oasis	50	CO2	9/29/2020	WNV
Riverside	COAV131	4174	Cx. tarsalis	Oasis	50	CO2	9/29/2020	WNV
Riverside	COAV6	4055	Cx. tarsalis	Oasis	30	CO2	9/29/2020	SLEV
Riverside	COAV766	3955	Cx. quinquefasciatus	Coachella	18	BGSENT	9/29/2020	SLEV
Sacramento	SAYO213009	6389	Cx. pipiens	Sacramento	3	GRVD	9/29/2020	WNV
San Joaquin	SJCM8010	2247	Cx. pipiens	Ripon	49	CO2	9/29/2020	WNV
San Joaquin	SJCM8018	2189	Cx. tarsalis	Stockton	50	CO2	9/29/2020	WNV

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San Joaquin	SJCM8018	2190	Cx. tarsalis	Stockton	50	CO2	9/29/2020	WNV
San Joaquin	SJCM8018	2191	Cx. tarsalis	Stockton	50	CO2	9/29/2020	WNV
San Joaquin	SJCM8056	2271	Cx. tarsalis	Manteca	50	CO2	9/29/2020	WNV
San Joaquin	SJCM8199	2268	Cx. tarsalis	Manteca	50	CO2	9/29/2020	WNV
San Joaquin	SJCM8209	2318	Cx. pipiens	Lodi	50	CO2	10/1/2020	WNV
San Joaquin	SJCM8210	2289	Cx. pipiens	Escalon	50	CO2	9/29/2020	WNV
San Joaquin	SJCM8210	2291	Cx. pipiens	Escalon	50	CO2	9/29/2020	WNV
Stanislaus	EAST1004	20494	Cx. tarsalis	Modesto	23	CO2	9/10/2020	WNV
Stanislaus	TRLK1312	1360	Cx. pipiens	Ceres	19	CO2	9/29/2020	WNV
Stanislaus	TRLK1612	1367	Cx. pipiens	Turlock	22	CO2	9/29/2020	WNV
Stanislaus	TRLK20145	1317	Cx. pipiens	Turlock	37	CO2	9/24/2020	WNV
Stanislaus	TRLK516	1408	Cx. pipiens	Denair	50	CO2	9/29/2020	WNV
Tulare	DLTA7311	2475	Cx. quinquefasciatus	London	50	CO2	10/1/2020	SLEV
Tulare	DLTA8423	2424	Cx. quinquefasciatus	Visalia	48	BGSENT	9/29/2020	WNV
Tulare	DLTA8528	2452	Cx. quinquefasciatus	Visalia	10	GRVD	9/30/2020	WNV
Yolo	SAYO145016	6439	Cx. tarsalis	Davis	33	CO2	9/29/2020	WNV

### Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03
Butte	BUCO0001	Chico	9/22/2020	WNV	1821		
Butte	BUCO0007	Chico	9/22/2020	WNV	1873		
Contra Costa	CNTR7402	Oakley	9/21/2020	WNV	1768	1769	
Los Angeles	LACW1002	Torrance	9/18/2020	WNV	2309		
Los Angeles	LACW1003	Redondo Beach	9/15/2020	WNV	2315		
Los Angeles	LACW1009	Los Angeles	9/15/2020	WNV	2338		
Los Angeles	LACW1010	Los Angeles	9/15/2020	WNV	2342	2344	
Los Angeles	LACW1049	Inglewood	9/16/2020	WNV	2368	2369	
Sacramento	SAYO203023	Elverta	9/21/2020	WNV	1162	1163	1164
San Benito	SBVC000	Hollister	9/23/2020	WNV	3608		
Shasta	SHAS5038		9/24/2020	WNV	5167		
Solano	SOLA148	Fairfield	9/21/2020	WNV	1741		
Sutter	SUYA0030	Live Oak	9/24/2020	WNV	2462	2464	2466
Tehama	TEHA66	Cottonwood	9/23/2020	WNV	2501	2503	
Yolo	SAYO116006	Knights Landing	9/21/2020	WNV	1173		

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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, [www.westnile.ca.gov](http://www.westnile.ca.gov), or the California Vectorborne Disease Surveillance System website, [www.maps.calsurv.org](http://www.maps.calsurv.org). For national information on WNV and other arboviruses, please visit the CDC websites: [www.cdc.gov](http://www.cdc.gov) and [www.cdc.gov/arbonet/maps/ADB\\_Diseases\\_Map/index.html](http://www.cdc.gov/arbonet/maps/ADB_Diseases_Map/index.html)

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