

## California Arbovirus Surveillance Bulletin #25

Week 38 Friday, September 20, 2019



### Weekly Update

#### **Humans**

##### West Nile virus

A total of 9 human cases of West Nile virus (WNV) illness were reported this week from 6 counties: Amador (1), Fresno (4), Los Angeles (1), Merced (1), San Bernardino (1), and Tulare (1). **This is the first WNV case reported from Amador County this year.** In 2019, 98 WNV human cases have been reported from 16 counties. Of the 98 reported cases, 54 (55%) had neuroinvasive disease and 3 (3.1%) fatalities have been reported. The median age of the individuals is 56 years (range: 11–93 years) and 58 (59%) are male. Dates of symptom onset range from May 12 to September 9. In addition to the 98 cases, 15 asymptomatic infections have also been reported from Butte (1), El Dorado (1), Kern (3), Madera (1), Orange (1), San Bernardino (4), San Joaquin (1), Stanislaus (1), Sutter (1), and Tulare (1) counties. At this time last year, 100 human cases had been reported from 25 counties.

##### St. Louis encephalitis virus

No new cases were reported this week. In 2019, 4 human cases of St. Louis encephalitis virus (SLEV) disease have been reported from 2 counties: Fresno (2) and Imperial (2). Of the 4 reported cases, 4 (100%) had neuroinvasive disease. The median age of the individuals is 62 years and dates of symptom onset range from July 14 to August 4. No fatalities have been reported.

#### **Dead Birds**

A total of 19 WNV positive dead birds were reported this week from 5 counties: Orange (10), Placer (1), Sacramento (2), Santa Clara (3), and Stanislaus (3). **This is the first detection of WNV in Santa Clara County this year.** In 2019, a total of 139 WNV positive dead birds have been reported from 17 counties. At this time last year, 445 WNV positive dead birds had been reported from 19 counties.

#### **Mosquito Pools**

##### West Nile virus

A total of 92 WNV positive mosquito pools were reported this week from 13 counties: Butte (3), Fresno (9), Kings (3), Los Angeles (15), Madera (10), Merced (1), Orange (9), Placer (1), Sacramento (1), San Joaquin (17), Stanislaus (12), Tulare (10), and Yolo (1). In 2019, a total of 3,070 WNV positive mosquito pools have been reported from 24 counties. At this time last year, 1,802 WNV positive mosquito pools had been reported from 28 counties.

##### St. Louis encephalitis virus

A total of 29 SLEV positive mosquito pools were reported this week from 6 counties: Fresno (4), Kings (1), Madera (2), Riverside (14), Stanislaus (2), and Tulare (6). In 2019, a total of 305 SLEV positive mosquito pools have been reported from 12 counties: Fresno (52), Imperial (5), Kern (54), Kings (3), Los Angeles (1), Madera (3), Merced (1), Orange (1), Riverside (96), San Bernardino (1), Stanislaus (8), and Tulare (80). At this time last year, 342 SLEV positive mosquito pools had been reported from 8 counties.

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### Sentinel Chickens

#### West Nile virus

A total of 16 WNV seroconversions were reported this week from 5 counties: Butte (8), Merced (2), Sutter (1), Tehama (2), and Yuba (3). In 2019, 105 WNV positive chickens have been reported from 12 counties. At this time last year, 122 WNV positive chickens had been reported from 14 counties.

#### St. Louis encephalitis virus

A total of 1 SLEV seroconversion was reported this week from Merced County. In 2019, 3 SLEV positive chickens have been reported from 1 county (Merced). At this time last year, 1 SLEV positive chicken had been reported from 1 county.

2018 & 2019 YTD West Nile Virus Comparisons		
	2018	2019
Total # Dead Bird Reports	6,682	4,504
# Positive Counties	37	31
# Human Cases	100	98
# Positive Dead Birds / # Tested	445 / 1,777	139 / 1,398
# Positive Mosquito Pools / # Tested	1,802 / 35,295	3,070 / 36,516
# Seroconversions / # Tested	122 / 7,938	105 / 7,112

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<b>YTD WNV Activity by Element and County, 2019</b>					
<b>County</b>	<b>Humans</b>	<b>Horses</b>	<b>Dead Birds</b>	<b>Mosquito Pools</b>	<b>Sentinel Chickens</b>
Amador	1				
Butte	4			44	33
Colusa					4
Contra Costa			1		1
Fresno	41	1	10	479	
Glenn				1	1
Imperial	3			2	
Kern	10	2	2	126	
Kings				61	
Lake				6	
Los Angeles	6		18	60	11
Madera	1	2		79	
Merced	2	1	2	46	16
Orange	1		27	120	
Placer			3	51	8
Riverside	4			515	
Sacramento			38	71	
San Bernardino	4	1	3	46	
San Diego	3		1		
San Joaquin	3	1	5	273	
Santa Clara			3		
Shasta				3	
Solano	1			5	4
Stanislaus	5	2	4	193	
Sutter				15	8
Tehama					4
Tulare	9		16	796	10
Tuolumne			1		
Ventura		1		1	
Yolo			2	55	
Yuba			3	22	5
<b>Totals</b>	<b>98</b>	<b>11</b>	<b>139</b>	<b>3,070</b>	<b>105</b>

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## TESTING SUMMARIES

### Humans

		WNV	SLE	WEE
Human Cases	Week	9	0	0
	YTD	98	4	0

### Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	60	19
	YTD	1,398	139

### Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	351	16	1	0
	YTD	7,112	105	3	0

### Mosquitoes

		Positive / Total Tested						
Mosquito Pools	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	92 / 1,591	29 / 1,477	0 / 1,336	0 / 17	0 / 17	0 / 17
		YTD	3,070 / 36,516	305 / 33,132	0 / 30,833	0 / 719	0 / 719	0 / 719

## POSITIVES

### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Orange	Orange Co VCD	Anaheim	92802	American Crow	9/10/2019	WNV
Orange	Orange Co VCD	Anaheim	92804	American Crow	9/6/2019	WNV
Orange	Orange Co VCD	Anaheim	92804	American Crow	9/12/2019	WNV
Orange	Orange Co VCD	Buena Park	90620	American Crow	9/10/2019	WNV
Orange	Orange Co VCD	Buena Park	90620	American Crow	9/13/2019	WNV
Orange	Orange Co VCD	Fullerton	92832	American Crow	9/11/2019	WNV
Orange	Orange Co VCD	Fullerton	92833	American Crow	9/13/2019	WNV
Orange	Orange Co VCD	Huntington Beach	92646	American Crow	9/12/2019	WNV
Orange	Orange Co VCD	Santa Ana	92706	American Crow	9/16/2019	WNV
Orange	Orange Co VCD	Westminster	92683	American Crow	9/16/2019	WNV

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Placer	Placer MVCD	Roseville	95747	Mourning Dove	9/17/2019	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95814	American Crow	9/13/2019	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	California Scrub-Jay	9/14/2019	WNV
Santa Clara	Santa Clara Co VCD	Los Gatos	95032	American Crow	9/19/2019	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	9/13/2019	WNV
Santa Clara	Santa Clara Co VCD	San Jose	96136	American Crow	9/13/2019	WNV
Stanislaus	East Side MAD	Modesto	92537	California Scrub-Jay	7/31/2019	WNV
Stanislaus	East Side MAD	Modesto	95357	Yellow-billed Magpie	8/7/2019	WNV
Stanislaus	East Side MAD	Oakdale	95361	Unknown	8/5/2019	WNV

### Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO123	378	Cx. tarsalis		50	CO2	9/10/19	WNV
Butte	BUCO123	379	Cx. tarsalis		50	CO2	9/10/19	WNV
Butte	BUCO123	380	Cx. tarsalis		50	CO2	9/10/19	WNV
Fresno	CNSL1792	799	Cx. quinquefasciatus	Fresno	27	GRVD	9/12/19	WNV
Fresno	CNSL1921	789	Cx. quinquefasciatus	Fresno	50	GRVD	9/12/19	WNV
Fresno	CNSL1934	802	Cx. quinquefasciatus		23	GRVD	9/13/19	SLEV
Fresno	CNSL1955	760	Cx. quinquefasciatus	Clovis	14	GRVD	9/11/19	WNV
Fresno	CNSL8107	788	Cx. quinquefasciatus	Fresno	13	GRVD	9/12/19	SLEV
Fresno	FRNO214	594	Cx. tarsalis	Kerman	15	CO2	9/17/19	WNV
Fresno	FRWS100006	300	Cx. tarsalis		50	CO2	9/17/19	WNV
Fresno	FRWS200003	291	Cx. quinquefasciatus		36	CO2	9/17/19	SLEV
Fresno	FRWS200003	291	Cx. quinquefasciatus		36	CO2	9/17/19	WNV
Fresno	FRWS2105	295	Cx. tarsalis		50	CO2	9/17/19	WNV
Fresno	FRWS4102	304	Cx. tarsalis		50	CO2	9/17/19	WNV
Fresno	FRWS5116	308	Cx. tarsalis	Tranquillity	27	CO2	9/17/19	WNV
Fresno	FRWS5202	288	Cx. tarsalis		50	CO2	9/12/19	SLEV
Kings	KNGS3018	469	Cx. tarsalis		50	CO2	9/12/19	WNV
Kings	KNGS3062	478	Cx. tarsalis		13	CO2	9/13/19	SLEV
Kings	KNGS3098	482	Cx. tarsalis		22	CO2	9/13/19	WNV
Kings	KNGS5519	457	Cx. pipiens	Hanford	17	BGSENT	9/11/19	WNV
Los Angeles	ANTV5254	110	Cx. tarsalis	Lancaster	16	CO2	8/29/19	WNV
Los Angeles	GRLA2554	5882	Cx. quinquefasciatus	Los Angeles	13	GRVD	9/12/19	WNV
Los Angeles	GRLA2574	5868	Cx. quinquefasciatus	Los Angeles	50	GRVD	9/11/19	WNV
Los Angeles	GRLA2724	5883	Cx. quinquefasciatus	Los Angeles	38	GRVD	9/12/19	WNV
Los Angeles	GRLA2890	938	Cx. quinquefasciatus	Lakewood	29	GRVD	9/11/19	WNV
Los Angeles	GRLA2955	946	Cx. quinquefasciatus	Cerritos	43	GRVD	9/12/19	WNV
Los Angeles	GRLA2957	934	Cx. quinquefasciatus	Hawaiian Gardens	50	GRVD	9/11/19	WNV
Los Angeles	GRLA3036	5885	Cx. quinquefasciatus	Los Angeles	22	GRVD	9/12/19	WNV
Los Angeles	GRLA3048	950	Cx. quinquefasciatus	Pico Rivera	50	GRVD	9/12/19	WNV
Los Angeles	GRLA3057	927	Cx. quinquefasciatus	Huntington Park	50	GRVD	9/10/19	WNV
Los Angeles	GRLA3060	945	Cx. quinquefasciatus	Norwalk	50	GRVD	9/12/19	WNV
Los Angeles	GRLA3078	5858	Cx. quinquefasciatus	Los Angeles	41	GRVD	9/10/19	WNV
Los Angeles	LACW1009	667	Cx. quinquefasciatus	Los Angeles	30	GRVD	9/10/19	WNV
Los Angeles	LACW1009	668	Cx. quinquefasciatus	Los Angeles	44	GRVD	9/10/19	WNV
Los Angeles	SGVA7	829	Cx. quinquefasciatus	Claremont	45	GRVD	9/17/19	WNV
Madera	MADR12	279	Cx. tarsalis	Madera Acres	50	CO2	9/11/19	WNV
Madera	MADR178	292	Cx. quinquefasciatus		50	CO2	9/13/19	WNV
Madera	MADR195	282	Cx. quinquefasciatus		22	CO2	9/11/19	WNV

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Madera	MADR195	283	Cx. tarsalis		50	CO2	9/11/19	WNV
Madera	MADR298	286	Cx. quinquefasciatus		50	CO2	9/12/19	WNV
Madera	MADR299	285	Cx. tarsalis		50	CO2	9/12/19	WNV
Madera	MADR300	287	Cx. quinquefasciatus		50	CO2	9/12/19	WNV
Madera	MADR3334	293	Cx. quinquefasciatus	Parkwood	50	CO2	9/13/19	SLEV
Madera	MADR3334	293	Cx. quinquefasciatus	Parkwood	50	CO2	9/13/19	WNV
Madera	MADR889	290	Cx. tarsalis		50	CO2	9/12/19	SLEV
Madera	MADR889	290	Cx. tarsalis		50	CO2	9/12/19	WNV
Madera	MADR895	289	Cx. tarsalis		50	CO2	9/12/19	WNV
Merced	MERC201714	673	Cx. tarsalis	Winton	6	CO2	9/17/19	WNV
Orange	ORCO1005	3734	Cx. quinquefasciatus	Buena Park	32	GRVD	9/6/19	WNV
Orange	ORCO1005	3736	Cx. quinquefasciatus	Buena Park	37	GRVD	9/6/19	WNV
Orange	ORCO1005	3740	Cx. quinquefasciatus	Buena Park	41	GRVD	9/6/19	WNV
Orange	ORCO1005	3743	Cx. quinquefasciatus	Buena Park	39	GRVD	9/6/19	WNV
Orange	ORCO1005	3746	Cx. quinquefasciatus	Buena Park	50	GRVD	9/6/19	WNV
Orange	ORCO1005	3748	Cx. tarsalis	Buena Park	2	GRVD	9/6/19	WNV
Orange	ORCO1005	3749	Cx. quinquefasciatus	Buena Park	51	GRVD	9/6/19	WNV
Orange	ORCO1005	3751	Cx. quinquefasciatus	Buena Park	34	GRVD	9/6/19	WNV
Orange	ORCO1015	3769	Cx. quinquefasciatus	Orange	30	GRVD	9/6/19	WNV
Placer	PLCR1023	2305	Cx. tarsalis	Roseville	13	CO2	9/17/19	WNV
Riverside	COAV0	5150	Cx. tarsalis	Vista Santa Rosa	8	BGSENT	9/13/19	SLEV
Riverside	COAV122	5232	Cx. tarsalis		50	CO2	9/17/19	SLEV
Riverside	COAV123	5224	Cx. tarsalis		50	CO2	9/17/19	SLEV
Riverside	COAV123	5227	Cx. tarsalis		50	CO2	9/17/19	SLEV
Riverside	COAV415	5260	Cx. quinquefasciatus	Indian Wells	18	BGSENT	9/19/19	SLEV
Riverside	COAV45	5195	Cx. tarsalis		50	CO2	9/17/19	SLEV
Riverside	COAV45	5197	Cx. tarsalis		50	CO2	9/17/19	SLEV
Riverside	COAV45	5198	Cx. tarsalis		50	CO2	9/17/19	SLEV
Riverside	COAV46	5206	Cx. tarsalis		50	CO2	9/17/19	SLEV
Riverside	COAV46	5208	Cx. tarsalis		50	CO2	9/17/19	SLEV
Riverside	COAV48	5211	Cx. tarsalis		50	CO2	9/17/19	SLEV
Riverside	COAV56	5230	Cx. tarsalis		50	CO2	9/17/19	SLEV
Riverside	COAV611	5191	Cx. tarsalis		50	CO2	9/17/19	SLEV
Riverside	COAV611	5192	Cx. tarsalis		50	CO2	9/17/19	SLEV
Sacramento	SAYO201009	5836	Cx. tarsalis		50	CO2	9/17/19	WNV
San Joaquin	SJCM7021	2166	Cx. pipiens	Stockton	1	GRVD	9/17/19	WNV
San Joaquin	SJCM8008	2176	Cx. tarsalis		50	CO2	9/17/19	WNV
San Joaquin	SJCM8018	2173	Cx. tarsalis	Stockton	50	CO2	9/17/19	WNV
San Joaquin	SJCM8018	2174	Cx. tarsalis	Stockton	24	CO2	9/17/19	WNV
San Joaquin	SJCM8022	2146	Cx. tarsalis		50	CO2	9/17/19	WNV
San Joaquin	SJCM8161	2160	Cx. tarsalis	Ripon	26	CO2	9/17/19	WNV
San Joaquin	SJCM8161	2161	Cx. pipiens	Ripon	48	CO2	9/17/19	WNV
San Joaquin	SJCM8199	2205	Cx. tarsalis		50	CO2	9/17/19	WNV
San Joaquin	SJCM8199	2206	Cx. tarsalis		50	CO2	9/17/19	WNV
San Joaquin	SJCM8199	2207	Cx. tarsalis		50	CO2	9/17/19	WNV
San Joaquin	SJCM8203	2152	Cx. pipiens		52	CO2	9/17/19	WNV
San Joaquin	SJCM8205	2235	Cx. pipiens	Farmington	28	CO2	9/19/19	WNV
San Joaquin	SJCM8206	2182	Cx. tarsalis		50	CO2	9/17/19	WNV
San Joaquin	SJCM8206	2194	Cx. pipiens		50	CO2	9/17/19	WNV
San Joaquin	SJCM8208	2242	Cx. tarsalis		54	CO2	9/19/19	WNV
San Joaquin	SJCM8208	2243	Cx. pipiens		24	CO2	9/19/19	WNV
San Joaquin	SJCM8211	2180	Cx. pipiens	Stockton	7	CO2	9/17/19	WNV
Stanislaus	EAST1081	19219	Cx. tarsalis	East Oakdale	27	CO2	9/13/19	WNV
Stanislaus	EAST1088	19216	Cx. tarsalis	Modesto	17	CO2	9/13/19	WNV

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Stanislaus	EAST1093	19223	Cx. tarsalis	Oakdale	38	CO2	9/13/19	WNV
Stanislaus	EAST2002	19213	Cx. pipiens	Modesto	37	CO2	9/13/19	WNV
Stanislaus	TRLK1615	1187	Cx. pipiens	Modesto	49	CO2	9/18/19	WNV
Stanislaus	TRLK1616	1181	Cx. pipiens	Modesto	50	CO2	9/18/19	WNV
Stanislaus	TRLK17274	1206	Cx. tarsalis	Newman	50	CO2	9/18/19	SLEV
Stanislaus	TRLK307	1146	Cx. tarsalis		50	CO2	9/18/19	WNV
Stanislaus	TRLK312	1214	Cx. tarsalis		50	CO2	9/18/19	WNV
Stanislaus	TRLK312	1218	Cx. tarsalis		50	CO2	9/18/19	SLEV
Stanislaus	TRLK312	1218	Cx. tarsalis		50	CO2	9/18/19	WNV
Stanislaus	TRLK312	1219	Cx. tarsalis		50	CO2	9/18/19	WNV
Stanislaus	TRLK424	1189	Cx. tarsalis		50	CO2	9/18/19	WNV
Stanislaus	TRLK424	1192	Cx. pipiens		50	CO2	9/18/19	WNV
Tulare	DLNO96	239	Cx. quinquefasciatus		50	CO2	9/12/19	WNV
Tulare	DLTA6404	3453	Cx. tarsalis		30	CO2	9/18/19	SLEV
Tulare	DLTA6407	3429	Cx. quinquefasciatus	Dinuba	18	GRVD	9/13/19	WNV
Tulare	DLTA6420	3488	Cx. quinquefasciatus		10	GRVD	9/19/19	WNV
Tulare	DLTA8413	3476	Cx. quinquefasciatus	Visalia	50	CO2	9/19/19	WNV
Tulare	DLTA8413	3478	Cx. tarsalis	Visalia	10	CO2	9/19/19	WNV
Tulare	DLTA8414	3254	Cx. quinquefasciatus		50	CO2	9/6/19	SLEV
Tulare	DLTA8414	3259	Cx. quinquefasciatus		28	CO2	9/6/19	SLEV
Tulare	DLTA8414	3471	Cx. quinquefasciatus		50	CO2	9/19/19	SLEV
Tulare	DLTA8415	3265	Cx. tarsalis	Visalia	14	CO2	9/6/19	SLEV
Tulare	DLTA8422	3433	Cx. quinquefasciatus	Visalia	41	BGSENT	9/13/19	WNV
Tulare	DLTA8426	3439	Cx. quinquefasciatus	Visalia	26	BGSENT	9/17/19	WNV
Tulare	DLTA8427	3440	Cx. quinquefasciatus	Visalia	17	BGSENT	9/17/19	WNV
Tulare	DLTA8519	3424	Cx. quinquefasciatus	Visalia	25	BGSENT	9/13/19	SLEV
Tulare	DLTA8519	3424	Cx. quinquefasciatus	Visalia	25	BGSENT	9/13/19	WNV
Tulare	DLTA9415	3395	Cx. quinquefasciatus		11	CO2	9/13/19	WNV
Yolo	SAYO135020	5682	Cx. tarsalis	Woodland	50	CO2	9/13/19	WNV

### Sentinel Chickens

County	Site Code	City	Date Bled	Virus	Band 01	Band 02	Band 03
Butte	BUCO0002	Oroville	9/10/2019	WNV	1948	1949	
Butte	BUCO0003	Oroville	9/10/2019	WNV	1952	1953	
Butte	BUCO0004	Gridley	9/10/2019	WNV	1958		
Butte	BUCO0006	Chico	9/10/2019	WNV	1970	1972	1975
Merced	MERC0003	Gustine	9/13/2019	SLEV	1514		
Merced	MERC0003	Gustine	9/13/2019	WNV	1515		
Merced	MERC0006	Merced	9/13/2019	WNV	1520		
Sutter	SUYA00015	Robbins	9/12/2019	WNV	1826		
Tehama	TEHA0001	Red Bluff	9/11/2019	WNV	1917	1920	
Yuba	SUYA0010	Olivehurst	9/12/2019	WNV	1815	1816	1817

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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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*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 Tina Feiszli by phone (510) 412-6253 or email: [tina.feiszli@cdph.ca.gov](mailto:tina.feiszli@cdph.ca.gov).*

*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.calsurv.org](http://www.calsurv.org). For national information on WNV and other arboviruses, please visit the CDC websites: [www.cdc.gov](http://www.cdc.gov) and [https://wwwn.cdc.gov/arbovet/maps/ADB\\_Diseases\\_Map/index.html](https://wwwn.cdc.gov/arbovet/maps/ADB_Diseases_Map/index.html)*