

California Arbovirus Surveillance Bulletin #20

Week 35 Friday, August 28, 2020



Weekly Update

Humans

A total of eight human cases of West Nile virus (WNV) illness were reported this week from four counties: Butte (4), Merced (2), Stanislaus (1), and Sutter (1). **These are the first human WNV cases reported from Butte, Merced, and Sutter counties this year.** In 2020, a total of 35 human WNV cases have been reported from 10 counties. Of the 35 cases, 27 (77%) had neuroinvasive illness and two (5.7%) were fatal. The median age of the individuals was 61 years and 26 (74%) were male. Dates of symptom onset ranged from June 16 to August 17. In addition to the 35 cases, 4 asymptomatic WNV infections have been reported from Los Angeles (2) and Stanislaus (2) counties. At this time last year, 57 human WNV cases had been reported from 12 counties.

Dead Birds

A total of 18 WNV positive dead birds were reported this week from 5 counties: Contra Costa (6), Los Angeles (5), Sacramento (4), San Joaquin (1), and Yolo (2). In 2020, a total of 142 WNV positive dead birds have been reported from 17 counties. At this time last year, 91 WNV positive dead birds had been reported from 13 counties.

Mosquito Pools

West Nile virus

A total of 306 WNV positive mosquito pools were reported this week from 19 counties: Contra Costa (5), Fresno (28), Kern (12), Kings (7), Lake (6), Los Angeles (49), Merced (1), Orange (38), Placer (16), Riverside (1), Sacramento (25), San Bernardino (1), San Joaquin (25), Shasta (1), Stanislaus (47), Sutter (4), Tulare (28), Yolo (11), and Yuba (1). In 2020, a total of 1,420 WNV positive mosquito pools have been reported from 26 counties. At this time last year, 2,516 WNV positive mosquito pools had been reported from 24 counties.

St. Louis encephalitis virus

A total of 30 St. Louis encephalitis virus (SLEV) positive mosquito pools were reported this week from 5 counties: Fresno (16), Kern (4), Kings (2), Riverside (3), and Tulare (5). In 2020, a total of 268 SLEV positive mosquito pools have been reported from Fresno (101), Imperial (9), Kern (12), Kings (5), Madera (2), Riverside (131), San Joaquin (1) and Tulare (7) counties. At this time last year, 178 SLEV positive mosquito pools had been reported from 7 counties.

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Sentinel Chickens

One WNV positive chicken was reported this week from Los Angeles County. In 2020, a total of 41 chickens have tested positive for WNV from 6 counties. At this time last year, 53 WNV positive chickens had been reported from 8 counties.

2019 & 2020 YTD West Nile Virus Comparisons		
	2019	2020
Total # Dead Bird Reports	4,034	3,820
# Positive Counties	26	29
# Human Cases	57	35
# Positive Dead Birds / # Tested	91 / 1,231	142 / 1,042
# Positive Mosquito Pools / # Tested	2,516 / 31,301	1,420 / 27,078
# Seroconversions / # Tested	53 / 6,011	41 / 4,334

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YTD WNV Activity by Element and County, 2020					
County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			1		
Amador		1			
Butte	4		2	20	12
Contra Costa			7	7	
Fresno			4	186	
Glenn				2	1
Imperial				3	
Kern				45	
Kings				47	
Lake				11	
Los Angeles	5		31	189	3
Madera	2			33	
Merced	2	1	2	41	14
Napa			1		
Orange	2		14	112	
Placer	1		1	51	
Riverside	1	2	1	49	
Sacramento			59	68	
San Bernardino				2	
San Diego	1			2	
San Joaquin		1	2	102	
Santa Clara			5	8	
Shasta				11	
Solano			1	3	
Stanislaus	16	1	4	266	
Sutter	1			19	10
Tulare			1	88	1
Yolo			6	53	
Yuba				2	
Totals	35	6	142	1,420	41

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TESTING SUMMARIES

Humans

		WNV	SLE	WEE
Human Cases	Week	8	0	0
	YTD	35	0	0

Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	52	18
	YTD	1,042	142

Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	167	1	0	0
	YTD	4,334	41	0	0

Mosquitoes

		Positive / Total Tested						
Mosquito Pools	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	306 / 1,601	30 / 1,435	0 / 1,311	0 / 11	0 / 11	0 / 11
		YTD	1,420 / 27,078	268 / 25,796	0 / 24,215	0 / 241	0 / 241	0 / 241

NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Contra Costa	Contra Costa MVCD	Antioch	94531	American Crow	8/23/2020	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/22/2020	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/23/2020	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	8/25/2020	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	California Scrub-Jay	8/22/2020	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	California Scrub-Jay	8/25/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Chatsworth	91311	American Crow	8/21/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Los Angeles	91352	American Crow	8/19/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	North Hollywood	91602	American Crow	8/17/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Northridge	91324	American Crow	8/10/2020	WNV
Los Angeles	Los Angeles Co West VCD	Lawndale	90260	American Crow	8/21/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Antelope	95843	American Crow	8/20/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	8/20/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Yellow-billed Magpie	8/19/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	California Scrub-Jay	8/21/2020	WNV
San Joaquin	San Joaquin Co MVCD	Woodbridge	95258	Unknown	8/25/2020	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/21/2020	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	California Scrub-Jay	8/19/2020	WNV

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Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Contra Costa	CNTR3144	169	Cx. pipiens	Brentwood	9	CO2	8/25/2020	WNV
Contra Costa	CNTR7818	172	Cx. tarsalis	Brentwood	12	CO2	8/25/2020	WNV
Contra Costa	CNTR7889	165	Cx. tarsalis	Brentwood	21	CO2	8/25/2020	WNV
Contra Costa	CNTR7889	166	Cx. pipiens	Brentwood	23	CO2	8/25/2020	WNV
Contra Costa	CNTR8202	151	Cx. pipiens	Discovery Bay	14	CO2	8/24/2020	WNV
Fresno	CNSL1068	854	Cx. tarsalis	Fresno	14	GRVD	8/18/2020	SLEV
Fresno	CNSL1257	869	Cx. quinquefasciatus	Clovis	50	GRVD	8/21/2020	SLEV
Fresno	CNSL1400	1082	Cx. quinquefasciatus	Clovis	12	GRVD	8/20/2020	WNV
Fresno	CNSL1417	1060	Cx. quinquefasciatus	Clovis	17	GRVD	8/18/2020	SLEV
Fresno	CNSL1417	1060	Cx. quinquefasciatus	Clovis	17	GRVD	8/18/2020	WNV
Fresno	CNSL1450	1083	Cx. quinquefasciatus	Clovis	50	GRVD	8/21/2020	SLEV
Fresno	CNSL1450	1083	Cx. quinquefasciatus	Clovis	50	GRVD	8/21/2020	WNV
Fresno	CNSL1510	1085	Cx. quinquefasciatus	Clovis	36	GRVD	8/21/2020	SLEV
Fresno	CNSL1566	1086	Cx. quinquefasciatus	Fresno	50	GRVD	8/21/2020	SLEV
Fresno	CNSL1566	1086	Cx. quinquefasciatus	Fresno	50	GRVD	8/21/2020	WNV
Fresno	CNSL1567	846	Cx. quinquefasciatus	Clovis	50	GRVD	8/18/2020	WNV
Fresno	CNSL1612	1087	Cx. quinquefasciatus	Fresno	50	GRVD	8/21/2020	SLEV
Fresno	CNSL1614	1058	Cx. quinquefasciatus	Clovis	37	GRVD	8/18/2020	SLEV
Fresno	CNSL1645	859	Cx. quinquefasciatus	Fresno	35	GRVD	8/19/2020	WNV
Fresno	CNSL1910	1066	Cx. tarsalis	Fresno	50	CO2	8/18/2020	SLEV
Fresno	CNSL1919	1072	Cx. quinquefasciatus	Fresno	15	GRVD	8/19/2020	WNV
Fresno	CNSL2074	1068	Cx. quinquefasciatus	Sanger	50	GRVD	8/19/2020	SLEV
Fresno	CNSL2252	1070	Cx. quinquefasciatus	Sanger	42	GRVD	8/19/2020	WNV
Fresno	CNSL2252	1071	Cx. stigmatosoma	Sanger	16	GRVD	8/19/2020	WNV
Fresno	CNSL2265	872	Cx. quinquefasciatus	Sanger	33	GRVD	8/21/2020	WNV
Fresno	CNSL2546	855	Cx. quinquefasciatus	Sanger	13	BGSENT	8/19/2020	WNV
Fresno	CNSL3126	1076	Cx. quinquefasciatus	Reedley	46	GRVD	8/20/2020	WNV
Fresno	CNSL3126	1077	Cx. quinquefasciatus	Reedley	32	GRVD	8/20/2020	WNV
Fresno	CNSL3220	863	Cx. quinquefasciatus	Orange Cove	15	GRVD	8/20/2020	WNV
Fresno	CNSL4099	861	Cx. quinquefasciatus	Selma	50	GRVD	8/20/2020	SLEV
Fresno	CNSL4209	862	Cx. quinquefasciatus	Selma	20	GRVD	8/20/2020	WNV
Fresno	CNSL4224	1075	Cx. quinquefasciatus	Selma	40	GRVD	8/20/2020	WNV
Fresno	CNSL6030	873	Cx. quinquefasciatus	Riverdale	50	CO2	8/21/2020	WNV
Fresno	CNSL6030	874	Cx. tarsalis	Riverdale	50	CO2	8/21/2020	WNV
Fresno	CNSL6115	1090	Cx. quinquefasciatus	Riverdale	15	GRVD	8/21/2020	WNV
Fresno	CNSL6115	1091	Cx. tarsalis	Riverdale	50	CO2	8/21/2020	WNV
Fresno	CNSL8078	1084	Cx. quinquefasciatus	Clovis	26	GRVD	8/21/2020	SLEV
Fresno	CNSL9217	1061	Cx. quinquefasciatus	Clovis	31	GRVD	8/18/2020	WNV
Fresno	FRNO112	392	Cx. quinquefasciatus	Fresno	35	GRVD	8/20/2020	WNV
Fresno	FRNO177	388	Cx. quinquefasciatus	Fresno	14	GRVD	8/20/2020	WNV
Fresno	FRNO19	413	Cx. quinquefasciatus	Fresno	31	BGSENT	8/26/2020	SLEV
Fresno	FRNO207	403	Cx. quinquefasciatus	Fresno	26	GRVD	8/25/2020	SLEV
Fresno	FRNO88	385	Cx. quinquefasciatus	Fresno	17	GRVD	8/20/2020	WNV
Fresno	FRWS100001	239	Cx. tarsalis	Dos Palos	48	CO2	8/20/2020	WNV
Fresno	FRWS1202	251	Cx. tarsalis	Dos Palos	50	CO2	8/25/2020	WNV
Fresno	FRWS1202	253	Cx. tarsalis	Dos Palos	50	CO2	8/25/2020	WNV

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Fresno	FRWS300031	247	Cx. tarsalis	Firebaugh	50	CO2	8/25/2020	SLEV
Fresno	FRWS300031	248	Cx. tarsalis	Firebaugh	50	CO2	8/25/2020	SLEV
Fresno	FRWS400017	244	Cx. tarsalis	Mendota	18	GRVD	8/25/2020	WNV
Kern	DLNO108	231	Cx. quinquefasciatus	Delano	50	BGSENT	8/20/2020	WNV
Kern	DLNO119	232	Cx. quinquefasciatus	Delano	50	BGSENT	8/20/2020	WNV
Kern	DLNO120	241	Cx. quinquefasciatus	Delano	14	GRVD	8/25/2020	WNV
Kern	DLNO123	227	Cx. tarsalis	McFarland	50	CO2	8/19/2020	SLEV
Kern	DLNO123	227	Cx. tarsalis	McFarland	50	CO2	8/19/2020	WNV
Kern	DLNO2	226	Cx. quinquefasciatus	Delano	50	CO2	8/19/2020	WNV
Kern	DLNO21	230	Cx. quinquefasciatus	Delano	50	CO2	8/19/2020	WNV
Kern	DLNO45	225	Cx. quinquefasciatus	Delano	50	CO2	8/19/2020	WNV
Kern	DLNO83	233	Cx. quinquefasciatus	McFarland	11	GRVD	8/21/2020	SLEV
Kern	DLNO86	238	Cx. quinquefasciatus	Delano	17	GRVD	8/25/2020	WNV
Kern	KERN15	447	Cx. tarsalis	Bakersfield	50	CO2	8/20/2020	SLEV
Kern	KERN15	447	Cx. tarsalis	Bakersfield	50	CO2	8/20/2020	WNV
Kern	KERN2051	450	Cx. quinquefasciatus	Bakersfield	50	GRVD	8/21/2020	WNV
Kern	KERN3014	449	Cx. tarsalis	Bakersfield	50	CO2	8/20/2020	WNV
Kern	KERN32	437	Cx. tarsalis	Arvin	50	CO2	8/18/2020	SLEV
Kern	KERN45	436	Cx. quinquefasciatus	Buttonwillow	50	CO2	8/18/2020	WNV
Kings	KNGS3098	417	Cx. pipiens	Hardwick	15	CO2	8/20/2020	SLEV
Kings	KNGS3300	409	Cx. pipiens	Corcoran	20	BGSENT	8/19/2020	WNV
Kings	KNGS4402	422	Cx. tarsalis	Lemoore	28	BGSENT	8/21/2020	WNV
Kings	KNGS4405	421	Cx. pipiens	Lemoore	50	BGSENT	8/21/2020	WNV
Kings	KNGS4444	411	Cx. pipiens	Lemoore	32	BGSENT	8/20/2020	WNV
Kings	KNGS5506	419	Cx. pipiens	Hanford	12	BGSENT	8/21/2020	WNV
Kings	KNGS5508	418	Cx. pipiens	Hanford	10	BGSENT	8/21/2020	SLEV
Kings	KNGS5510	410	Cx. pipiens	Hanford	12	BGSENT	8/20/2020	WNV
Kings	KNGS5516	425	Cx. tarsalis	Hanford	28	CO2	8/21/2020	WNV
Lake	LAKE199	424	Cx. tarsalis	Spring Valley	14	CO2	8/20/2020	WNV
Lake	LAKE233	455	Cx. tarsalis	Clearlake Oaks	32	CO2	8/25/2020	WNV
Lake	LAKE302	456	Cx. tarsalis	Clearlake Oaks	50	CO2	8/25/2020	WNV
Lake	LAKE328	459	Cx. tarsalis	Upper Lake	50	CO2	8/25/2020	WNV
Lake	LAKE80	446	Cx. tarsalis	Upper Lake	6	REST	8/25/2020	WNV
Lake	LAKE94	451	Cx. tarsalis	Upper Lake	50	CO2	8/25/2020	WNV
Los Angeles	ANTV3514	89	Cx. quinquefasciatus	Palmdale	28	GRVD	8/27/2020	WNV
Los Angeles	ANTV5384	90	Cx. tarsalis	Palmdale	10	CO2	8/27/2020	WNV
Los Angeles	ANTV853311	88	Cx. quinquefasciatus	Palmdale	10	GRVD	8/27/2020	WNV
Los Angeles	GRLA2007	5645	Cx. quinquefasciatus	Toluca Lake	38	GRVD	8/20/2020	WNV
Los Angeles	GRLA2017	5647	Cx. quinquefasciatus	Toluca Lake	39	GRVD	8/20/2020	WNV
Los Angeles	GRLA2029	5635	Cx. quinquefasciatus	Canoga Park	45	BGSENT	8/19/2020	WNV
Los Angeles	GRLA2031	5624	Cx. quinquefasciatus	Northridge	12	GRVD	8/18/2020	WNV
Los Angeles	GRLA2032	5623	Cx. quinquefasciatus	Northridge	17	GRVD	8/18/2020	WNV
Los Angeles	GRLA2034	5621	Cx. quinquefasciatus	Tarzana	26	GRVD	8/18/2020	WNV
Los Angeles	GRLA2383	507	Cx. quinquefasciatus	Whittier	50	GRVD	8/21/2020	WNV
Los Angeles	GRLA2414	5608	Cx. quinquefasciatus	Granada Hills	50	GRVD	8/13/2020	WNV
Los Angeles	GRLA2419	5605	Cx. quinquefasciatus	Panorama City	50	GRVD	8/13/2020	WNV
Los Angeles	GRLA2421	5606	Cx. quinquefasciatus	Panorama City	50	GRVD	8/13/2020	WNV
Los Angeles	GRLA2476	5671	Cx. quinquefasciatus	Sunland	25	GRVD	8/21/2020	WNV
Los Angeles	GRLA2540	5627	Cx. tarsalis	Porter Ranch	50	BGSENT	8/18/2020	WNV
Los Angeles	GRLA2554	5632	Cx. quinquefasciatus	Winnetka	41	GRVD	8/19/2020	WNV

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Los Angeles	GRLA2555	5619	Cx. quinquefasciatus	Encino	15	GRVD	8/18/2020	WNV
Los Angeles	GRLA2574	5598	Cx. quinquefasciatus	Sherman Oaks	50	GRVD	8/13/2020	WNV
Los Angeles	GRLA2580	5597	Cx. quinquefasciatus	Sherman Oaks	20	GRVD	8/13/2020	WNV
Los Angeles	GRLA2635	5617	Cx. quinquefasciatus	Van Nuys	50	BGSENT	8/18/2020	WNV
Los Angeles	GRLA2636	5615	Cx. quinquefasciatus	Van Nuys	50	GRVD	8/18/2020	WNV
Los Angeles	GRLA2637	5603	Cx. quinquefasciatus	Van Nuys	50	BGSENT	8/13/2020	WNV
Los Angeles	GRLA2650	5602	Cx. quinquefasciatus	Encino	21	GRVD	8/13/2020	WNV
Los Angeles	GRLA2651	5600	Cx. quinquefasciatus	Encino	50	GRVD	8/13/2020	WNV
Los Angeles	GRLA2655	5601	Cx. quinquefasciatus	Encino	50	GRVD	8/13/2020	WNV
Los Angeles	GRLA2724	5634	Cx. quinquefasciatus	Winnetka	24	GRVD	8/19/2020	WNV
Los Angeles	GRLA2866	5661	Cx. quinquefasciatus	Studio City	50	GRVD	8/21/2020	WNV
Los Angeles	GRLA2866	5664	Cx. quinquefasciatus	Studio City	21	GRVD	8/21/2020	WNV
Los Angeles	GRLA2889	495	Cx. quinquefasciatus	Lakewood	50	GRVD	8/20/2020	WNV
Los Angeles	GRLA2890	496	Cx. quinquefasciatus	Lakewood	50	GRVD	8/20/2020	WNV
Los Angeles	GRLA2995	5630	Cx. quinquefasciatus	Woodland Hills	35	BGSENT	8/19/2020	WNV
Los Angeles	GRLA3034	5607	Cx. quinquefasciatus	North Hills	50	GRVD	8/13/2020	WNV
Los Angeles	GRLA3036	5636	Cx. quinquefasciatus	Canoga Park	25	BGSENT	8/19/2020	WNV
Los Angeles	GRLA3038	5651	Cx. quinquefasciatus	Valley Village	50	GRVD	8/20/2020	WNV
Los Angeles	GRLA3045	506	Cx. quinquefasciatus	Whittier	24	GRVD	8/21/2020	WNV
Los Angeles	GRLA3051	494	Cx. quinquefasciatus	Signal Hill	50	GRVD	8/20/2020	WNV
Los Angeles	GRLA3052	505	Cx. quinquefasciatus	La Habra Heights	50	GRVD	8/21/2020	WNV
Los Angeles	GRLA3053	504	Cx. quinquefasciatus	Hacienda Heights	46	GRVD	8/21/2020	WNV
Los Angeles	GRLA3066	5656	Cx. quinquefasciatus	Valley Glen	50	GRVD	8/20/2020	WNV
Los Angeles	GRLA3069	5653	Cx. quinquefasciatus	Valley Village	22	GRVD	8/20/2020	WNV
Los Angeles	GRLA3076	5657	Cx. quinquefasciatus	Valley Glen	50	GRVD	8/20/2020	WNV
Los Angeles	GRLA3080	5654	Cx. quinquefasciatus	North Hollywood	50	GRVD	8/20/2020	WNV
Los Angeles	GRLA3097	5675	Cx. quinquefasciatus	Arleta	19	GRVD	8/21/2020	WNV
Los Angeles	GRLA3102	5650	Cx. quinquefasciatus	Studio City	47	BGSENT	8/20/2020	WNV
Los Angeles	SGVA29	893	Cx. quinquefasciatus	Pomona	50	GRVD	8/25/2020	WNV
Los Angeles	SGVA450	892	Cx. quinquefasciatus	La Puente	50	GRVD	8/25/2020	WNV
Los Angeles	SGVA473	894	Cx. quinquefasciatus	San Gabriel	14	GRVD	8/25/2020	WNV
Los Angeles	SGVA477	886	Cx. quinquefasciatus	West Covina	22	GRVD	8/25/2020	WNV
Los Angeles	SGVA507	909	Cx. quinquefasciatus	Monrovia	28	GRVD	8/25/2020	WNV
Merced	MERC912	474	Cx. tarsalis	Merced	12	CO2	8/26/2020	WNV
Orange	ORCO1008	3607	Cx. quinquefasciatus	Fullerton	36	GRVD	8/25/2020	WNV
Orange	ORCO1008	3608	Cx. quinquefasciatus	Fullerton	36	GRVD	8/25/2020	WNV
Orange	ORCO1008	3610	Cx. quinquefasciatus	Fullerton	37	GRVD	8/25/2020	WNV
Orange	ORCO1008	3611	Cx. quinquefasciatus	Fullerton	14	GRVD	8/25/2020	WNV
Orange	ORCO1008	3614	Cx. quinquefasciatus	Fullerton	36	GRVD	8/25/2020	WNV
Orange	ORCO1010	3708	Cx. quinquefasciatus	Huntington Beach	35	GRVD	8/26/2020	WNV
Orange	ORCO1010	3712	Cx. quinquefasciatus	Huntington Beach	52	GRVD	8/26/2020	WNV
Orange	ORCO1011	3612	Cx. quinquefasciatus	La Habra	30	GRVD	8/25/2020	WNV
Orange	ORCO1011	3630	Cx. quinquefasciatus	La Habra	50	GRVD	8/25/2020	WNV
Orange	ORCO1011	3637	Cx. quinquefasciatus	La Habra	37	GRVD	8/25/2020	WNV
Orange	ORCO1011	3638	Cx. quinquefasciatus	La Habra	52	GRVD	8/25/2020	WNV
Orange	ORCO1011	3704	Cx. quinquefasciatus	La Habra	39	GRVD	8/26/2020	WNV
Orange	ORCO168	3642	Cx. quinquefasciatus	Santa Ana	39	GRVD	8/25/2020	WNV
Orange	ORCO170	3658	Cx. quinquefasciatus	Anaheim	42	GRVD	8/25/2020	WNV
Orange	ORCO193	3754	Cx. quinquefasciatus	Huntington Beach	12	GRVD	8/27/2020	WNV
Orange	ORCO198	3678	Cx. quinquefasciatus	La Habra	41	GRVD	8/25/2020	WNV

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Orange	ORCO2	3703	Cx. quinquefasciatus	Fullerton	11	GRVD	8/26/2020	WNV
Orange	ORCO208	3716	Cx. quinquefasciatus	Santa Ana	33	CO2	8/27/2020	WNV
Orange	ORCO214	3718	Cx. quinquefasciatus	Fullerton	5	CO2	8/27/2020	WNV
Orange	ORCO218	3595	Cx. quinquefasciatus	Anaheim	32	GRVD	8/25/2020	WNV
Orange	ORCO218	3596	Cx. quinquefasciatus	Anaheim	31	GRVD	8/25/2020	WNV
Orange	ORCO218	3603	Cx. quinquefasciatus	Anaheim	6	GRVD	8/25/2020	WNV
Orange	ORCO218	3622	Cx. quinquefasciatus	Anaheim	25	GRVD	8/25/2020	WNV
Orange	ORCO218	3624	Cx. quinquefasciatus	Anaheim	32	GRVD	8/25/2020	WNV
Orange	ORCO218	3628	Cx. quinquefasciatus	Anaheim	26	GRVD	8/25/2020	WNV
Orange	ORCO218	3634	Cx. quinquefasciatus	Anaheim	40	GRVD	8/25/2020	WNV
Orange	ORCO218	3713	Cx. quinquefasciatus	Anaheim	15	GRVD	8/26/2020	WNV
Orange	ORCO238	3728	Cx. quinquefasciatus	Anaheim	42	GRVD	8/27/2020	WNV
Orange	ORCO244	3656	Cx. quinquefasciatus	Garden Grove	39	GRVD	8/25/2020	WNV
Orange	ORCO297	3651	Cx. quinquefasciatus	Anaheim	25	GRVD	8/25/2020	WNV
Orange	ORCO3	3685	Cx. quinquefasciatus	Garden Grove	28	GRVD	8/25/2020	WNV
Orange	ORCO300	3751	Cx. quinquefasciatus	Westminster	46	GRVD	8/27/2020	WNV
Orange	ORCO303	3660	Cx. quinquefasciatus	Garden Grove	46	GRVD	8/25/2020	WNV
Orange	ORCO317	3665	Cx. quinquefasciatus	Fullerton	31	GRVD	8/25/2020	WNV
Orange	ORCO319	3644	Cx. quinquefasciatus	Buena Park	46	GRVD	8/25/2020	WNV
Orange	ORCO33	3683	Cx. quinquefasciatus	Westminster	20	GRVD	8/25/2020	WNV
Orange	ORCO82	3677	Cx. quinquefasciatus	Cypress	29	BGSENT	8/25/2020	WNV
Orange	ORCO83	3739	Cx. quinquefasciatus	Costa Mesa	13	GRVD	8/27/2020	WNV
Placer	PLCR1023	1459	Cx. pipiens	Roseville	2	CO2	8/26/2020	WNV
Placer	PLCR1113	1416	Cx. tarsalis	Pleasant Grove	50	CO2	8/25/2020	WNV
Placer	PLCR1114	1440	Cx. tarsalis	Lincoln	50	CO2	8/26/2020	WNV
Placer	PLCR1114	1441	Cx. tarsalis	Lincoln	50	CO2	8/26/2020	WNV
Placer	PLCR1114	1442	Cx. tarsalis	Lincoln	50	CO2	8/26/2020	WNV
Placer	PLCR117	1429	Cx. tarsalis	Newcastle	1	CO2	8/26/2020	WNV
Placer	PLCR17	1413	Cx. tarsalis	Sheridan	50	CO2	8/25/2020	WNV
Placer	PLCR191218	1369	Cx. tarsalis	Roseville	50	CO2	8/25/2020	WNV
Placer	PLCR191218	1370	Cx. tarsalis	Roseville	40	CO2	8/25/2020	WNV
Placer	PLCR191373	1407	Cx. tarsalis	Roseville	50	CO2	8/25/2020	WNV
Placer	PLCR191373	1409	Cx. tarsalis	Roseville	35	CO2	8/25/2020	WNV
Placer	PLCR191998	1359	Cx. tarsalis	Lincoln	24	CO2	8/21/2020	WNV
Placer	PLCR191998	1404	Cx. tarsalis	Lincoln	50	CO2	8/25/2020	WNV
Placer	PLCR25	1418	Cx. tarsalis	Lincoln	50	CO2	8/25/2020	WNV
Placer	PLCR25	1419	Cx. tarsalis	Lincoln	50	CO2	8/25/2020	WNV
Placer	PLCR411	1455	Cx. tarsalis	Roseville	27	CO2	8/26/2020	WNV
Riverside	COAV45	3641	Cx. tarsalis	Mecca	50	CO2	8/25/2020	SLEV
Riverside	COAV54	3626	Cx. tarsalis	North Shore	5	CO2	8/25/2020	SLEV
Riverside	COAV58	3629	Cx. tarsalis	North Shore	50	CO2	8/25/2020	SLEV
Riverside	COAV58	3630	Cx. tarsalis	North Shore	50	CO2	8/25/2020	WNV
Sacramento	SAYO201006	4896	Cx. tarsalis	Sacramento	50	CO2	8/25/2020	WNV
Sacramento	SAYO202006	4842	Cx. tarsalis	Sacramento	43	CO2	8/25/2020	WNV
Sacramento	SAYO202027	4847	Cx. pipiens	Sacramento	3	GRVD	8/25/2020	WNV
Sacramento	SAYO204020	4692	Cx. pipiens	Sacramento	12	GRVD	8/21/2020	WNV
Sacramento	SAYO204025	4146	Cx. pipiens	Citrus Heights	32	GRVD	8/14/2020	WNV
Sacramento	SAYO204027	4141	Cx. pipiens	Fair Oaks	6	CO2	8/14/2020	WNV
Sacramento	SAYO204044	4136	Cx. pipiens	Citrus Heights	3	CO2	8/14/2020	WNV
Sacramento	SAYO205017	4148	Cx. pipiens	Orangevale	15	GRVD	8/14/2020	WNV

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Sacramento	SAYO212033	4913	Cx. tarsalis	Sacramento	50	CO2	8/25/2020	WNV
Sacramento	SAYO212033	4915	Cx. tarsalis	Sacramento	50	CO2	8/25/2020	WNV
Sacramento	SAYO212033	4923	Cx. pipiens	Sacramento	50	GRVD	8/25/2020	WNV
Sacramento	SAYO213048	4838	Cx. pipiens	Sacramento	6	GRVD	8/25/2020	WNV
Sacramento	SAYO214031	4205	Cx. pipiens	Fair Oaks	14	GRVD	8/14/2020	WNV
Sacramento	SAYO214056	4180	Cx. pipiens	Carmichael	5	CO2	8/14/2020	WNV
Sacramento	SAYO223003	4174	Cx. pipiens	Sacramento	20	GRVD	8/14/2020	WNV
Sacramento	SAYO223006	4882	Cx. pipiens	Sacramento	50	GRVD	8/25/2020	WNV
Sacramento	SAYO233001	4884	Cx. tarsalis	Elk Grove	10	CO2	8/25/2020	WNV
Sacramento	SAYO233001	4886	Cx. pipiens	Elk Grove	6	GRVD	8/25/2020	WNV
Sacramento	SAYO242004	4754	Cx. pipiens	Elk Grove	38	CO2	8/21/2020	WNV
Sacramento	SAYO242004	4755	Cx. pipiens	Elk Grove	35	GRVD	8/21/2020	WNV
Sacramento	SAYO242010	4724	Cx. tarsalis	Elk Grove	50	CO2	8/21/2020	WNV
Sacramento	SAYO253016	4738	Cx. tarsalis	Galt	18	CO2	8/21/2020	WNV
Sacramento	SAYO254002	4704	Cx. tarsalis	Galt	30	CO2	8/21/2020	WNV
Sacramento	SAYO254016	4709	Cx. tarsalis	Galt	27	CO2	8/21/2020	WNV
Sacramento	SAYO254016	4710	Cx. pipiens	Galt	50	CO2	8/21/2020	WNV
San Bernardino	WVAL4586	1593	Cx. quinquefasciatus	Chino	50	BGSENT	8/28/2020	WNV
San Joaquin	SJCM8018	1437	Cx. tarsalis	Stockton	12	CO2	8/26/2020	WNV
San Joaquin	SJCM8027	1444	Cx. tarsalis	Stockton	39	CO2	8/26/2020	WNV
San Joaquin	SJCM8041	1452	Cx. tarsalis	Lodi	23	CO2	8/26/2020	WNV
San Joaquin	SJCM8079	1507	Cx. tarsalis	Manteca	44	CO2	8/26/2020	WNV
San Joaquin	SJCM8079	1509	Cx. tarsalis	Manteca	50	CO2	8/26/2020	WNV
San Joaquin	SJCM8079	1510	Cx. tarsalis	Manteca	22	CO2	8/26/2020	WNV
San Joaquin	SJCM8161	1481	Cx. pipiens	Ripon	33	CO2	8/26/2020	WNV
San Joaquin	SJCM8191	1454	Cx. tarsalis	Lodi	23	CO2	8/26/2020	WNV
San Joaquin	SJCM8206	1482	Cx. tarsalis	Lodi	50	CO2	8/26/2020	WNV
San Joaquin	SJCM8206	1483	Cx. tarsalis	Lodi	50	CO2	8/26/2020	WNV
San Joaquin	SJCM8206	1485	Cx. tarsalis	Lodi	50	CO2	8/26/2020	WNV
San Joaquin	SJCM8206	1486	Cx. tarsalis	Lodi	50	CO2	8/26/2020	WNV
San Joaquin	SJCM8206	1487	Cx. tarsalis	Lodi	50	CO2	8/26/2020	WNV
San Joaquin	SJCM8206	1488	Cx. tarsalis	Lodi	50	CO2	8/26/2020	WNV
San Joaquin	SJCM8206	1489	Cx. tarsalis	Lodi	50	CO2	8/26/2020	WNV
San Joaquin	SJCM8206	1490	Cx. tarsalis	Lodi	50	CO2	8/26/2020	WNV
San Joaquin	SJCM8206	1491	Cx. tarsalis	Lodi	50	CO2	8/26/2020	WNV
San Joaquin	SJCM8206	1492	Cx. tarsalis	Lodi	50	CO2	8/26/2020	WNV
San Joaquin	SJCM8206	1493	Cx. tarsalis	Lodi	50	CO2	8/26/2020	WNV
San Joaquin	SJCM8206	1494	Cx. tarsalis	Lodi	50	CO2	8/26/2020	WNV
San Joaquin	SJCM8206	1495	Cx. tarsalis	Lodi	50	CO2	8/26/2020	WNV
San Joaquin	SJCM8206	1496	Cx. tarsalis	Lodi	50	CO2	8/26/2020	WNV
San Joaquin	SJCM8206	1498	Cx. tarsalis	Lodi	50	CO2	8/26/2020	WNV
San Joaquin	SJCM8218	1468	Cx. tarsalis	Escalon	29	CO2	8/26/2020	WNV
San Joaquin	SJCM8218	1469	Cx. pipiens	Escalon	34	CO2	8/26/2020	WNV
Shasta	SHAS110	519	Cx. pipiens	Redding	50	CO2	8/25/2020	WNV
Stanislaus	EAST1007	20414	Cx. tarsalis	Modesto	42	CO2	8/20/2020	WNV
Stanislaus	EAST1012	20416	Cx. tarsalis	Modesto	37	CO2	8/20/2020	WNV
Stanislaus	EAST1013	20417	Cx. pipiens	Modesto	50	CO2	8/20/2020	WNV
Stanislaus	EAST1025	20402	Cx. tarsalis	Modesto	29	CO2	8/19/2020	WNV
Stanislaus	EAST2002	20393	Cx. pipiens	Modesto	12	BGSENT	8/19/2020	WNV
Stanislaus	EAST2022	20403	Cx. pipiens	Modesto	50	CO2	8/19/2020	WNV

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Stanislaus	EAST2022	20405	Cx. pipiens	Modesto	50	CO2	8/19/2020	WNV
Stanislaus	TRLK1305	782	Cx. tarsalis	Patterson	50	CO2	8/25/2020	WNV
Stanislaus	TRLK1305	783	Cx. tarsalis	Patterson	50	CO2	8/25/2020	WNV
Stanislaus	TRLK1509	831	Cx. pipiens	Turlock	50	CO2	8/25/2020	WNV
Stanislaus	TRLK1509	832	Cx. pipiens	Turlock	50	CO2	8/25/2020	WNV
Stanislaus	TRLK1509	833	Cx. pipiens	Turlock	50	CO2	8/25/2020	WNV
Stanislaus	TRLK1509	835	Cx. tarsalis	Turlock	50	CO2	8/25/2020	WNV
Stanislaus	TRLK1616	797	Cx. pipiens	Modesto	50	CO2	8/25/2020	WNV
Stanislaus	TRLK1616	798	Cx. pipiens	Modesto	50	CO2	8/25/2020	WNV
Stanislaus	TRLK1616	799	Cx. pipiens	Modesto	20	CO2	8/25/2020	WNV
Stanislaus	TRLK1616	800	Cx. tarsalis	Modesto	50	CO2	8/25/2020	WNV
Stanislaus	TRLK1616	801	Cx. tarsalis	Modesto	50	CO2	8/25/2020	WNV
Stanislaus	TRLK1673	814	Cx. tarsalis	Patterson	31	CO2	8/25/2020	WNV
Stanislaus	TRLK19383	775	Cx. tarsalis	Patterson	1	CO2	8/25/2020	WNV
Stanislaus	TRLK2	787	Cx. tarsalis	Vernalis	50	CO2	8/25/2020	WNV
Stanislaus	TRLK20276	766	Cx. pipiens	Turlock	15	BGSENT	8/19/2020	WNV
Stanislaus	TRLK20419	769	Cx. pipiens	Turlock	50	BGSENT	8/19/2020	WNV
Stanislaus	TRLK20437	768	Cx. pipiens	Turlock	16	BGSENT	8/19/2020	WNV
Stanislaus	TRLK305	778	Cx. pipiens	Grayson	50	CO2	8/25/2020	WNV
Stanislaus	TRLK305	779	Cx. tarsalis	Grayson	50	CO2	8/25/2020	WNV
Stanislaus	TRLK305	780	Cx. tarsalis	Grayson	33	CO2	8/25/2020	WNV
Stanislaus	TRLK319	837	Cx. tarsalis	Newman	50	CO2	8/25/2020	WNV
Stanislaus	TRLK319	839	Cx. tarsalis	Newman	50	CO2	8/25/2020	WNV
Stanislaus	TRLK319	842	Cx. tarsalis	Newman	50	CO2	8/25/2020	WNV
Stanislaus	TRLK319	845	Cx. pipiens	Newman	50	CO2	8/25/2020	WNV
Stanislaus	TRLK322	789	Cx. tarsalis	Vernalis	50	CO2	8/25/2020	WNV
Stanislaus	TRLK322	791	Cx. pipiens	Vernalis	50	CO2	8/25/2020	WNV
Stanislaus	TRLK424	803	Cx. pipiens	Patterson	50	CO2	8/25/2020	WNV
Stanislaus	TRLK424	805	Cx. pipiens	Patterson	50	CO2	8/25/2020	WNV
Stanislaus	TRLK424	807	Cx. pipiens	Patterson	50	CO2	8/25/2020	WNV
Stanislaus	TRLK424	808	Cx. pipiens	Patterson	50	CO2	8/25/2020	WNV
Stanislaus	TRLK424	809	Cx. tarsalis	Patterson	50	CO2	8/25/2020	WNV
Stanislaus	TRLK424	810	Cx. tarsalis	Patterson	50	CO2	8/25/2020	WNV
Stanislaus	TRLK424	811	Cx. tarsalis	Patterson	50	CO2	8/25/2020	WNV
Stanislaus	TRLK437	794	Cx. pipiens	Patterson	37	CO2	8/25/2020	WNV
Stanislaus	TRLK806	773	Cx. tarsalis	Grayson	41	CO2	8/25/2020	WNV
Stanislaus	TRLK9732	822	Cx. tarsalis	Newman	50	CO2	8/25/2020	WNV
Stanislaus	TRLK9732	825	Cx. tarsalis	Newman	50	CO2	8/25/2020	WNV
Stanislaus	TRLK9732	826	Cx. tarsalis	Newman	50	CO2	8/25/2020	WNV
Stanislaus	TRLK9768	776	Cx. tarsalis	Modesto	49	CO2	8/25/2020	WNV
Stanislaus	TRLK9768	777	Cx. pipiens	Modesto	11	CO2	8/25/2020	WNV
Sutter	SUYA15	403	Cx. tarsalis	Robbins	50	CO2	8/25/2020	WNV
Sutter	SUYA24	408	Cx. tarsalis	Yuba City	15	REST	8/24/2020	WNV
Sutter	SUYA31	406	Cx. tarsalis	Rio Oso	23	REST	8/25/2020	WNV
Sutter	SUYA63	407	Cx. tarsalis	Live Oak	23	REST	8/24/2020	WNV
Tulare	DLNO71	229	Cx. quinquefasciatus	Delano	50	CO2	8/19/2020	SLEV
Tulare	DLNO71	229	Cx. quinquefasciatus	Delano	50	CO2	8/19/2020	WNV
Tulare	DLTA6404	1799	Cx. quinquefasciatus	Dinuba	33	CO2	8/21/2020	WNV
Tulare	DLTA6404	1801	Cx. stigmatosoma	Dinuba	26	CO2	8/21/2020	WNV
Tulare	DLTA6404	1802	Cx. quinquefasciatus	Dinuba	40	CO2	8/21/2020	WNV

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Tulare	DLTA6404	1803	Cx. quinquefasciatus	Dinuba	19	CO2	8/21/2020	WNV
Tulare	DLTA6404	1811	Cx. quinquefasciatus	Dinuba	34	CO2	8/21/2020	WNV
Tulare	DLTA6404	1818	Cx. quinquefasciatus	Dinuba	50	CO2	8/21/2020	WNV
Tulare	DLTA6404	1819	Cx. quinquefasciatus	Dinuba	50	CO2	8/21/2020	SLEV
Tulare	DLTA6404	1822	Cx. tarsalis	Dinuba	50	CO2	8/21/2020	WNV
Tulare	DLTA6404	1824	Cx. tarsalis	Dinuba	50	CO2	8/21/2020	WNV
Tulare	DLTA6404	1826	Cx. tarsalis	Dinuba	50	CO2	8/21/2020	SLEV
Tulare	DLTA6404	1827	Cx. tarsalis	Dinuba	50	CO2	8/21/2020	WNV
Tulare	DLTA6404	1833	Cx. stigmatosoma	Dinuba	11	CO2	8/21/2020	WNV
Tulare	DLTA6404	1835	Cx. stigmatosoma	Dinuba	50	CO2	8/21/2020	WNV
Tulare	DLTA6404	1837	Cx. quinquefasciatus	Dinuba	50	CO2	8/21/2020	WNV
Tulare	DLTA6404	1842	Cx. tarsalis	Dinuba	50	CO2	8/21/2020	WNV
Tulare	DLTA6404	1843	Cx. tarsalis	Dinuba	50	CO2	8/21/2020	SLEV
Tulare	DLTA6404	1843	Cx. tarsalis	Dinuba	50	CO2	8/21/2020	WNV
Tulare	DLTA6407	1880	Cx. quinquefasciatus	Dinuba	43	BGSENT	8/26/2020	WNV
Tulare	DLTA6407	1896	Cx. quinquefasciatus	Dinuba	50	GRVD	8/27/2020	WNV
Tulare	DLTA6408	1892	Cx. quinquefasciatus	Dinuba	50	GRVD	8/27/2020	WNV
Tulare	DLTA6408	1893	Cx. quinquefasciatus	Dinuba	26	GRVD	8/27/2020	WNV
Tulare	DLTA6416	1900	Cx. quinquefasciatus	Dinuba	30	GRVD	8/27/2020	WNV
Tulare	DLTA7316	1852	Cx. quinquefasciatus	Traver	50	GRVD	8/25/2020	WNV
Tulare	DLTA7316	1853	Cx. quinquefasciatus	Traver	15	GRVD	8/25/2020	WNV
Tulare	DLTA8422	1863	Cx. quinquefasciatus	Goshen	13	GRVD	8/26/2020	WNV
Tulare	DLTA8423	1906	Cx. quinquefasciatus	Visalia	50	BGSENT	8/27/2020	WNV
Tulare	DLTA8519	1814	Cx. quinquefasciatus	Visalia	22	GRVD	8/21/2020	SLEV
Tulare	DLTA9509	1887	Cx. quinquefasciatus	Visalia	19	CO2	8/27/2020	WNV
Tulare	DLTA9606	1873	Cx. quinquefasciatus	Farmersville	16	GRVD	8/26/2020	WNV
Tulare	DLTA9606	1874	Cx. stigmatosoma	Farmersville	13	GRVD	8/26/2020	WNV
Tulare	DLTA9607	1861	Cx. quinquefasciatus	Farmersville	16	BGSENT	8/25/2020	WNV
Yolo	SAYO103007	4938	Cx. tarsalis	Dunnigan	50	CO2	8/25/2020	WNV
Yolo	SAYO103007	4940	Cx. tarsalis	Dunnigan	50	CO2	8/25/2020	WNV
Yolo	SAYO103007	4945	Cx. pipiens	Dunnigan	13	GRVD	8/25/2020	WNV
Yolo	SAYO114002	4927	Cx. tarsalis	Zamora	50	CO2	8/25/2020	WNV
Yolo	SAYO115008	4949	Cx. tarsalis	Woodland	50	CO2	8/25/2020	WNV
Yolo	SAYO116002	4892	Cx. tarsalis	Knights Landing	50	CO2	8/25/2020	WNV
Yolo	SAYO116002	4893	Cx. tarsalis	Knights Landing	22	CO2	8/25/2020	WNV
Yolo	SAYO137013	4776	Cx. pipiens	West Sacramento	10	GRVD	8/21/2020	WNV
Yolo	SAYO145025	4801	Cx. tarsalis	Davis	12	CO2	8/25/2020	WNV
Yolo	SAYO145025	4804	Cx. pipiens	Davis	24	GRVD	8/25/2020	WNV
Yolo	SAYO146006	4788	Cx. pipiens	Davis	18	GRVD	8/25/2020	WNV
Yuba	SUYA4	392	Cx. tarsalis	Wheatland	36	CO2	8/25/2020	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01
Los Angeles	LACW1026	Los Angeles	8/18/2020	WNV	2365

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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).

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.

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.

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.

Website Information: For updated information on WNV in California, please visit the California WNV website, www.westnile.ca.gov, or the California Vectorborne Disease Surveillance System website, www.maps.calsurv.org. For national information on WNV and other arboviruses, please visit the CDC websites: www.cdc.gov and www.cdc.gov/arbovet/maps/ADB_Diseases_Map/index.html

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