

## California Arbovirus Surveillance Bulletin #18

Week 33 Friday, August 14, 2020



### Weekly Update

#### **Humans**

A total of eight human cases of West Nile virus (WNV) illness were reported this week from four counties: Los Angeles (3), Orange (1), San Diego (1), and Stanislaus (3). **These are the first human WNV cases reported from Orange and San Diego counties this year.** In 2020, a total of 18 human WNV cases have been reported from 5 counties. Of the 18 cases, 13 (72%) had neuroinvasive illness and one fatality has been reported. The median age of the individuals is 61 years and 15 (83%) are male. Dates of symptom onset ranged from June 20 to July 21. In addition to the 18 cases, 3 asymptomatic WNV-positive blood donors have been reported from Los Angeles (1) and Stanislaus (2) counties. At this time last year, 14 human WNV cases had been reported from 9 counties.

#### **Dead Birds**

A total of 30 WNV positive dead birds were reported this week from 6 counties: Butte (2), Los Angeles (11), Orange (8), Placer (1), Sacramento (7), and Yolo (1). **These are the first positive birds from Butte and Placer counties this year.** In 2020, a total of 111 WNV positive dead birds have been reported from 16 counties. At this time last year, 67 WNV positive dead birds had been reported from 11 counties.

#### **Mosquito Pools**

##### West Nile virus

A total of 207 WNV positive mosquito pools were reported this week from 20 counties: Butte (5), Contra Costa (1), Fresno (18), Kern (10), Kings (11), Lake (1), Los Angeles (26), Madera (11), Merced (11), Orange (20), Placer (7), Riverside (6), Sacramento (10), San Joaquin (10), Shasta (1), Solano (1), Stanislaus (31), Sutter (3), Tulare (13), and Yolo (11). **This is the first detection of WNV activity in Contra Costa County and the first WNV positive mosquito pool from Solano County this year.** In 2020, a total of 882 WNV positive mosquito pools have been reported from 25 counties. At this time last year, 1,988 WNV positive mosquito pools had been reported from 23 counties.

##### St. Louis encephalitis virus

A total of 29 St. Louis encephalitis virus (SLEV) positive mosquito pools were reported this week from 7 counties: Fresno (9), Kern (1), Kings (1), Madera (1), Riverside (15), San Joaquin (1), and Tulare (1). **This is the first detection of SLEV activity in Madera and San Joaquin counties this year.** In 2020, a total of 207 SLEV positive mosquito pools have been reported from Fresno (67), Imperial (9), Kern (7), Kings (2), Madera (1), Riverside (118), San Joaquin

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(1) and Tulare (2) counties. At this time last year, 134 SLEV positive mosquito pools had been reported from 6 counties.

### Sentinel Chickens

One WNV positive chicken was reported this week from Tulare County; **this is the first WNV positive chicken reported from Tulare County this year.** In 2020, a total of 22 chickens have tested positive for WNV from 5 counties. At this time last year, 26 WNV positive chickens had been reported from 6 counties.

2019 & 2020 YTD West Nile Virus Comparisons		
	2019	2020
Total # Dead Bird Reports	3,710	3,454
# Positive Counties	25	28
# Human Cases	14	18
# Positive Dead Birds / # Tested	67 / 1,143	111 / 937
# Positive Mosquito Pools / # Tested	1,988 / 27,544	882 / 23,529
# Seroconversions / # Tested	26 / 5,422	22 / 3,884

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<b>YTD WNV Activity by Element and County, 2020</b>					
County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			1		
Amador		1			
Butte			2	16	4
Contra Costa				1	
Fresno			4	120	
Glenn				2	1
Imperial				3	
Kern				20	
Kings				33	
Lake				4	
Los Angeles	4		23	118	2
Madera	1			24	
Merced		1	2	35	14
Napa			1		
Orange	1		12	54	
Placer			1	22	
Riverside			1	46	
Sacramento			49	35	
San Diego	1			2	
San Joaquin		1	1	63	
Santa Clara			5	8	
Shasta				7	
Solano			1	1	
Stanislaus	11	1	4	196	
Sutter				11	
Tulare			1	36	1
Yolo			3	24	
Yuba				1	
<b>Totals</b>	<b>18</b>	<b>4</b>	<b>111</b>	<b>882</b>	<b>22</b>

*\*Does not include asymptomatic infections*

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## TESTING SUMMARIES

### Humans

		WNV	SLE	WEE
Human Cases	Week	8	0	0
	YTD	18	0	0

### Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	71	30
	YTD	937	111

### Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	266	1	0	0
	YTD	3,884	22	0	0

### Mosquitoes

		Positive / Total Tested						
Mosquito Pools		WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	207 / 1,754	29 / 1,539	0 / 1,539	0 / 0	0 / 0	0 / 0
		YTD	882 / 23,529	207 / 22,608	0 / 21,280	0 / 211	0 / 211	0 / 211

## NEW POSITIVES

### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Butte	Butte Co MVCD	Chico	95973	California Scrub-Jay	8/11/2020	WNV
Butte	Butte Co MVCD	Durham	95938	California Scrub-Jay	8/10/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Artesia	90701	American Crow	7/29/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Cerritos	90703	American Crow	8/3/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Lakewood	90713	American Crow	7/29/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Lakewood	90713	American Crow	8/3/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Long Beach	90815	American Crow	7/30/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	La Crescenta	91214	Unknown - songbird	8/5/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Los Angeles	91325	American Crow	8/5/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Los Angeles	91401	House Sparrow	8/2/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Los Angeles	91403	American Crow	8/3/2020	WNV
Los Angeles	Long Beach Animal Control	Long Beach	90815	American Crow	8/3/2020	WNV
Los Angeles	San Gabriel Valley MVCD	La Verne	91750	Black-headed Grosbeak	8/4/2020	WNV
Orange	Orange Co VCD	Anaheim	92802	American Crow	8/2/2020	WNV

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Orange	Orange Co VCD	Anaheim	92804	Cooper's Hawk	7/20/2020	WNV
Orange	Orange Co VCD	Anaheim	92805	American Crow	7/27/2020	WNV
Orange	Orange Co VCD	Huntington Beach	92647	American Crow	8/10/2020	WNV
Orange	Orange Co VCD	Huntington Beach	92648	American Crow	8/2/2020	WNV
Orange	Orange Co VCD	Lake Forest	92630	American Crow	7/28/2020	WNV
Orange	Orange Co VCD	Santa Ana	92705	American Crow	8/10/2020	WNV
Orange	Orange Co VCD	Tustin	92780	American Crow	8/10/2020	WNV
Placer	Placer MVCD	Lincoln	95648	House Finch	8/10/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Mourning Dove	8/6/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	Yellow-billed Magpie	8/7/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	California Scrub-Jay	8/4/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	California Scrub-Jay	8/5/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	California Scrub-Jay	8/9/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Yellow-billed Magpie	8/5/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	Yellow-billed Magpie	8/11/2020	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95776	Brewer's Blackbird	8/10/2020	WNV

### Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO126	310	Cx. tarsalis	Chico	50	CO2	8/10/2020	WNV
Butte	BUCO129	294	Cx. tarsalis	Gridley	50	CO2	8/5/2020	WNV
Butte	BUCO141	315	Cx. tarsalis	Oroville	50	CO2	8/11/2020	WNV
Butte	BUCO38	314	Cx. tarsalis	Oroville	42	CO2	8/11/2020	WNV
Butte	BUCO84	301	Cx. tarsalis	Nelson	50	CO2	8/5/2020	WNV
Contra Costa	CNTR661	130	Cx. tarsalis	Byron	49	CO2	8/10/2020	WNV
Fresno	CNSL1068	491	Cx. quinquefasciatus	Fresno	50	CO2	8/4/2020	WNV
Fresno	CNSL1153	799	Cx. quinquefasciatus	Fresno	27	GRVD	8/4/2020	WNV
Fresno	CNSL1187	806	Cx. quinquefasciatus	Fresno	35	GRVD	8/5/2020	WNV
Fresno	CNSL1311	801	Cx. quinquefasciatus	Clovis	27	GRVD	8/5/2020	SLEV
Fresno	CNSL1417	1000	Cx. quinquefasciatus	Clovis	50	GRVD	8/5/2020	SLEV
Fresno	CNSL1417	1000	Cx. quinquefasciatus	Clovis	50	GRVD	8/5/2020	WNV
Fresno	CNSL1454	800	Cx. quinquefasciatus	Fresno	16	GRVD	8/4/2020	SLEV
Fresno	CNSL1526	1004	Cx. quinquefasciatus	Fresno	36	GRVD	8/5/2020	SLEV
Fresno	CNSL1801	1017	Cx. quinquefasciatus	Clovis	14	GRVD	8/7/2020	SLEV
Fresno	CNSL1919	805	Cx. quinquefasciatus	Fresno	30	GRVD	8/5/2020	SLEV
Fresno	CNSL1937	821	Cx. quinquefasciatus	Fresno	50	GRVD	8/7/2020	WNV
Fresno	CNSL2069	1016	Cx. quinquefasciatus	Sanger	19	GRVD	8/7/2020	SLEV
Fresno	CNSL2069	1016	Cx. quinquefasciatus	Sanger	19	GRVD	8/7/2020	WNV
Fresno	CNSL2492	820	Cx. quinquefasciatus	Sanger	50	GRVD	8/6/2020	WNV
Fresno	CNSL2546	1006	Cx. quinquefasciatus	Sanger	12	GRVD	8/6/2020	WNV
Fresno	CNSL5207	1013	Cx. quinquefasciatus	Kingsburg	19	GRVD	8/6/2020	WNV
Fresno	CNSL6030	1003	Cx. tarsalis	Riverdale	38	CO2	8/5/2020	WNV
Fresno	CNSL6115	803	Cx. quinquefasciatus	Riverdale	27	GRVD	8/5/2020	WNV
Fresno	CNSL6281	1005	Cx. quinquefasciatus	Caruthers	50	GRVD	8/5/2020	WNV
Fresno	CNSL8109	497	Cx. quinquefasciatus	Clovis	26	GRVD	8/4/2020	WNV
Fresno	CNSL8126	807	Cx. quinquefasciatus	Fresno	50	GRVD	8/5/2020	SLEV

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Fresno	CNSL8126	807	Cx. quinquefasciatus	Fresno	50	GRVD	8/5/2020	WNV
Fresno	CNSL9217	499	Cx. quinquefasciatus	Clovis	50	GRVD	8/5/2020	SLEV
Fresno	FRWS100006	217	Cx. tarsalis	Dos Palos	50	CO2	8/11/2020	WNV
Fresno	FRWS1202	221	Cx. tarsalis	Dos Palos	50	CO2	8/11/2020	WNV
Fresno	FRWS200019	208	Cx. tarsalis	Dos Palos	45	CO2	8/6/2020	WNV
Fresno	FRWS300031	213	Cx. tarsalis	Firebaugh	40	CO2	8/11/2020	WNV
Kern	DLNO102	185	Cx. quinquefasciatus	McFarland	25	BGSENT	8/6/2020	WNV
Kern	DLNO121	184	Cx. quinquefasciatus	Delano	30	BGSENT	8/6/2020	WNV
Kern	DLNO20	193	Cx. quinquefasciatus	Delano	20	GRVD	8/7/2020	WNV
Kern	KERN2018	423	Cx. quinquefasciatus	Bakersfield	50	GRVD	8/7/2020	WNV
Kern	KERN2021	408	Cx. quinquefasciatus	Wasco	50	GRVD	8/4/2020	WNV
Kern	KERN2040	404	Cx. quinquefasciatus	Arvin	35	GRVD	8/4/2020	SLEV
Kern	KERN2040	404	Cx. quinquefasciatus	Arvin	35	GRVD	8/4/2020	WNV
Kern	KERN2041	405	Cx. quinquefasciatus	Arvin	50	GRVD	8/4/2020	WNV
Kern	KERN2049	406	Cx. quinquefasciatus	Lamont	47	GRVD	8/4/2020	WNV
Kern	KERN3004	424	Cx. quinquefasciatus	Bakersfield	50	CO2	8/7/2020	WNV
Kern	KERN36	412	Cx. tarsalis	Bakersfield	50	CO2	8/4/2020	WNV
Kings	KNGS3004	375	Cx. tarsalis	Lemoore	50	CO2	8/5/2020	WNV
Kings	KNGS3004	376	Cx. tarsalis	Lemoore	50	CO2	8/5/2020	WNV
Kings	KNGS3004	377	Cx. tarsalis	Lemoore	50	CO2	8/5/2020	WNV
Kings	KNGS3022	355	Cx. tarsalis	Hanford	50	CO2	8/4/2020	WNV
Kings	KNGS3083	359	Cx. tarsalis	Lemoore	50	CO2	8/4/2020	WNV
Kings	KNGS3083	360	Cx. erythrothorax	Lemoore	46	CO2	8/4/2020	WNV
Kings	KNGS3108	380	Cx. tarsalis	Island	49	CO2	8/6/2020	WNV
Kings	KNGS3114	358	Cx. tarsalis	Hanford	38	CO2	8/4/2020	WNV
Kings	KNGS3116	382	Cx. tarsalis	Hanford	30	CO2	8/6/2020	SLEV
Kings	KNGS8033	384	Cx. tarsalis	Hanford	38	CO2	8/7/2020	WNV
Kings	KNGS8033	385	Cx. pipiens	Hanford	22	CO2	8/7/2020	WNV
Kings	KNGS8038	372	Cx. tarsalis	Lemoore	50	CO2	8/5/2020	WNV
Lake	LAKE80	363	Cx. tarsalis	Upper Lake	14	REST	8/12/2020	WNV
Los Angeles	ANTV1111	76	Cx. tarsalis	Lancaster	6	CO2	8/11/2020	WNV
Los Angeles	ANTV1111	77	Cx. quinquefasciatus	Lancaster	28	GRVD	8/11/2020	WNV
Los Angeles	GRLA2007	5555	Cx. quinquefasciatus	Toluca Lake	50	BGSENT	8/6/2020	WNV
Los Angeles	GRLA2017	5556	Cx. quinquefasciatus	Toluca Lake	50	GRVD	8/6/2020	WNV
Los Angeles	GRLA2029	5546	Cx. quinquefasciatus	Canoga Park	50	GRVD	8/5/2020	WNV
Los Angeles	GRLA2030	5547	Cx. quinquefasciatus	West Hills	41	GRVD	8/5/2020	WNV
Los Angeles	GRLA2031	5537	Cx. quinquefasciatus	Northridge	34	GRVD	8/4/2020	WNV
Los Angeles	GRLA2034	5534	Cx. quinquefasciatus	Tarzana	49	GRVD	8/4/2020	WNV
Los Angeles	GRLA2278	428	Cx. quinquefasciatus	Long Beach	43	GRVD	8/6/2020	WNV
Los Angeles	GRLA2383	440	Cx. quinquefasciatus	Whittier	29	GRVD	8/7/2020	WNV
Los Angeles	GRLA2554	5542	Cx. quinquefasciatus	Winnetka	50	GRVD	8/5/2020	WNV
Los Angeles	GRLA2555	5533	Cx. quinquefasciatus	Encino	44	GRVD	8/4/2020	WNV
Los Angeles	GRLA2635	5532	Cx. quinquefasciatus	Van Nuys	50	GRVD	8/4/2020	WNV
Los Angeles	GRLA2636	5531	Cx. quinquefasciatus	Van Nuys	50	GRVD	8/4/2020	WNV
Los Angeles	GRLA2724	5545	Cx. quinquefasciatus	Winnetka	16	BGSENT	8/5/2020	WNV
Los Angeles	GRLA2890	427	Cx. quinquefasciatus	Lakewood	39	GRVD	8/6/2020	WNV
Los Angeles	GRLA3027	5552	Cx. quinquefasciatus	Studio City	20	GRVD	8/6/2020	WNV
Los Angeles	GRLA3038	5558	Cx. quinquefasciatus	Valley Village	50	GRVD	8/6/2020	WNV
Los Angeles	GRLA3051	425	Cx. quinquefasciatus	Signal Hill	50	GRVD	8/6/2020	WNV
Los Angeles	GRLA3066	5561	Cx. quinquefasciatus	Valley Glen	50	GRVD	8/6/2020	WNV

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Los Angeles	GRLA3068	417	Cx. quinquefasciatus	Wilmington	50	GRVD	8/5/2020	WNV
Los Angeles	GRLA3069	5559	Cx. quinquefasciatus	Valley Village	50	GRVD	8/6/2020	WNV
Los Angeles	GRLA3076	5562	Cx. quinquefasciatus	Valley Glen	50	GRVD	8/6/2020	WNV
Los Angeles	GRLA3080	5560	Cx. quinquefasciatus	North Hollywood	50	GRVD	8/6/2020	WNV
Los Angeles	GRLA3097	5571	Cx. quinquefasciatus	Arleta	37	GRVD	8/7/2020	WNV
Los Angeles	GRLA3102	5557	Cx. quinquefasciatus	Studio City	49	GRVD	8/6/2020	WNV
Madera	MADR1109	224	Cx. tarsalis	Madera	16	CO2	8/6/2020	WNV
Madera	MADR1109	225	Cx. tarsalis	Madera	50	CO2	8/6/2020	WNV
Madera	MADR1109	226	Cx. tarsalis	Madera	43	CO2	8/6/2020	WNV
Madera	MADR12	229	Cx. quinquefasciatus	Madera	28	CO2	8/7/2020	WNV
Madera	MADR195	238	Cx. tarsalis	Madera	50	CO2	8/7/2020	SLEV
Madera	MADR195	238	Cx. tarsalis	Madera	50	CO2	8/7/2020	WNV
Madera	MADR300	213	Cx. quinquefasciatus	Chowchilla	23	CO2	8/4/2020	WNV
Madera	MADR301	212	Cx. quinquefasciatus	Chowchilla	34	CO2	8/4/2020	WNV
Madera	MADR3334	221	Cx. tarsalis	Madera	15	CO2	8/6/2020	WNV
Madera	MADR692	219	Cx. tarsalis	Madera	27	CO2	8/5/2020	WNV
Madera	MADR692	220	Cx. quinquefasciatus	Madera	15	CO2	8/5/2020	WNV
Madera	MADR896	216	Cx. tarsalis	Mendota	50	CO2	8/4/2020	WNV
Merced	MERC102	395	Cx. tarsalis	Merced	50	CO2	8/6/2020	WNV
Merced	MERC1103	406	Cx. pipiens	Winton	50	CO2	8/7/2020	WNV
Merced	MERC1103	407	Cx. pipiens	Winton	50	CO2	8/7/2020	WNV
Merced	MERC201523	434	Cx. pipiens	Atwater	50	CO2	8/12/2020	WNV
Merced	MERC201723	410	Cx. tarsalis	Winton	50	CO2	8/7/2020	WNV
Merced	MERC201723	411	Cx. tarsalis	Winton	50	CO2	8/7/2020	WNV
Merced	MERC201723	412	Cx. pipiens	Winton	50	CO2	8/7/2020	WNV
Merced	MERC201723	414	Cx. pipiens	Winton	50	CO2	8/7/2020	WNV
Merced	MERC201723	417	Cx. pipiens	Winton	50	CO2	8/7/2020	WNV
Merced	MERC201728	429	Cx. tarsalis	Planada	9	CO2	8/11/2020	WNV
Merced	MERC591259	444	Cx. pipiens	Atwater	50	BGSENT	8/12/2020	WNV
Orange	ORCO1005	3362	Cx. quinquefasciatus	Buena Park	52	GRVD	8/13/2020	WNV
Orange	ORCO1008	3228	Cx. quinquefasciatus	Fullerton	34	GRVD	8/11/2020	WNV
Orange	ORCO1008	3354	Cx. quinquefasciatus	Fullerton	4	GRVD	8/13/2020	WNV
Orange	ORCO1008	3355	Cx. quinquefasciatus	Fullerton	50	GRVD	8/13/2020	WNV
Orange	ORCO1008	3358	Cx. quinquefasciatus	Fullerton	43	GRVD	8/13/2020	WNV
Orange	ORCO1008	3366	Cx. quinquefasciatus	Fullerton	40	GRVD	8/13/2020	WNV
Orange	ORCO1008	3369	Cx. quinquefasciatus	Fullerton	45	GRVD	8/13/2020	WNV
Orange	ORCO1008	3372	Cx. quinquefasciatus	Fullerton	47	GRVD	8/13/2020	WNV
Orange	ORCO1008	3373	Cx. quinquefasciatus	Fullerton	47	GRVD	8/13/2020	WNV
Orange	ORCO1008	3374	Cx. quinquefasciatus	Fullerton	46	GRVD	8/13/2020	WNV
Orange	ORCO1009	3353	Cx. quinquefasciatus	Garden Grove	48	GRVD	8/12/2020	WNV
Orange	ORCO1011	3220	Cx. quinquefasciatus	La Habra	50	GRVD	8/11/2020	WNV
Orange	ORCO1011	3222	Cx. quinquefasciatus	La Habra	48	GRVD	8/11/2020	WNV
Orange	ORCO1031	3336	Cx. quinquefasciatus	Los Alamitos	35	GRVD	8/12/2020	WNV
Orange	ORCO1031	3338	Cx. quinquefasciatus	Los Alamitos	35	GRVD	8/12/2020	WNV
Orange	ORCO218	3292	Cx. quinquefasciatus	Anaheim	46	GRVD	8/12/2020	WNV
Orange	ORCO218	3306	Cx. quinquefasciatus	Anaheim	35	GRVD	8/12/2020	WNV
Orange	ORCO218	3310	Cx. quinquefasciatus	Anaheim	35	GRVD	8/12/2020	WNV
Orange	ORCO238	3314	Cx. quinquefasciatus	Anaheim	50	GRVD	8/12/2020	WNV
Orange	ORCO302	3232	Cx. quinquefasciatus	Anaheim	45	GRVD	8/11/2020	WNV
Placer	PLCR139	1161	Cx. tarsalis	Roseville	45	CO2	8/11/2020	WNV

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Placer	PLCR155	1144	Cx. tarsalis	Sheridan	5	CO2	8/11/2020	WNV
Placer	PLCR198710	1163	Cx. tarsalis	Sheridan	50	CO2	8/11/2020	WNV
Placer	PLCR25	1171	Cx. tarsalis	Lincoln	50	CO2	8/11/2020	WNV
Placer	PLCR25	1173	Cx. tarsalis	Lincoln	50	CO2	8/11/2020	WNV
Placer	PLCR525	1129	Cx. tarsalis	Lincoln	13	CO2	8/11/2020	WNV
Placer	PLCR95	1126	Cx. tarsalis	Lincoln	13	CO2	8/11/2020	WNV
Riverside	COAV0	3483	Cx. tarsalis	Indio	50	CO2	8/11/2020	SLEV
Riverside	COAV0	3484	Cx. tarsalis	Indio	15	CO2	8/11/2020	SLEV
Riverside	COAV0	3485	Cx. tarsalis	Indio	50	CO2	8/11/2020	SLEV
Riverside	COAV0	3487	Cx. tarsalis	Indio	50	CO2	8/11/2020	SLEV
Riverside	COAV0	3489	Cx. tarsalis	Indio	50	CO2	8/11/2020	SLEV
Riverside	COAV121	3463	Cx. tarsalis	Mecca	21	CO2	8/11/2020	SLEV
Riverside	COAV123	3472	Cx. tarsalis	Mecca	24	CO2	8/11/2020	SLEV
Riverside	COAV200	3453	Cx. quinquefasciatus	Mecca	33	GRVD	8/7/2020	SLEV
Riverside	COAV200	3454	Cx. tarsalis	Mecca	6	BGSENT	8/7/2020	SLEV
Riverside	COAV200	3461	Cx. quinquefasciatus	Mecca	12	GRVD	8/11/2020	SLEV
Riverside	COAV200	3462	Cx. tarsalis	Mecca	32	CO2	8/11/2020	SLEV
Riverside	COAV344	3413	Cx. quinquefasciatus	La Quinta	32	GRVD	8/11/2020	SLEV
Riverside	COAV54	3477	Cx. tarsalis	North Shore	28	CO2	8/11/2020	WNV
Riverside	COAV57	3475	Cx. tarsalis	North Shore	50	CO2	8/11/2020	WNV
Riverside	COAV58	3470	Cx. tarsalis	North Shore	50	CO2	8/11/2020	SLEV
Riverside	COAV58	3470	Cx. tarsalis	North Shore	50	CO2	8/11/2020	WNV
Riverside	COAV58	3471	Cx. tarsalis	North Shore	41	CO2	8/11/2020	SLEV
Riverside	COAV766	3493	Cx. quinquefasciatus	Coachella	9	BGSENT	8/11/2020	SLEV
Riverside	RIVR31	325	Cx. tarsalis	Nuevo	50	CO2	8/4/2020	WNV
Riverside	RIVR31	326	Cx. tarsalis	Nuevo	50	CO2	8/4/2020	WNV
Riverside	RIVR31	327	Cx. tarsalis	Nuevo	50	CO2	8/4/2020	WNV
Sacramento	SAYO204027	3901	Cx. tarsalis	Fair Oaks	2	CO2	8/7/2020	WNV
Sacramento	SAYO204028	3912	Cx. pipiens	Citrus Heights	4	GRVD	8/7/2020	WNV
Sacramento	SAYO204387	3415	Cx. pipiens	Citrus Heights	38	BGSENT	7/29/2020	WNV
Sacramento	SAYO212033	3314	Cx. pipiens	Sacramento	15	GRVD	7/28/2020	WNV
Sacramento	SAYO214009	3884	Cx. tarsalis	Carmichael	1	CO2	8/7/2020	WNV
Sacramento	SAYO224003	3927	Cx. tarsalis	Rancho Cordova	1	GRVD	8/7/2020	WNV
Sacramento	SAYO234019	4029	Cx. tarsalis	Elk Grove	3	CO2	8/11/2020	WNV
Sacramento	SAYO234019	4030	Cx. pipiens	Elk Grove	1	CO2	8/11/2020	WNV
Sacramento	SAYO245026	3933	Cx. tarsalis	Wilton	23	CO2	8/7/2020	WNV
Sacramento	SAYO254009	4118	Cx. pipiens	Galt	12	BGSENT	8/11/2020	WNV
San Joaquin	SJCM8025	1228	Cx. tarsalis	Stockton	30	CO2	8/11/2020	WNV
San Joaquin	SJCM8056	1278	Cx. tarsalis	Manteca	45	CO2	8/11/2020	WNV
San Joaquin	SJCM8206	1254	Cx. tarsalis	Lodi	47	CO2	8/11/2020	WNV
San Joaquin	SJCM8208	1297	Cx. tarsalis	Lodi	50	CO2	8/13/2020	WNV
San Joaquin	SJCM8208	1298	Cx. tarsalis	Lodi	50	CO2	8/13/2020	WNV
San Joaquin	SJCM8208	1300	Cx. pipiens	Lodi	50	CO2	8/13/2020	WNV
San Joaquin	SJCM8208	1301	Cx. pipiens	Lodi	27	CO2	8/13/2020	SLEV
San Joaquin	SJCM8218	1293	Cx. pipiens	Escalon	50	CO2	8/13/2020	WNV
San Joaquin	SJCM8228	1265	Cx. pipiens	Escalon	24	CO2	8/11/2020	WNV
San Joaquin	SJCM8234	1249	Cx. tarsalis	Lodi	50	CO2	8/11/2020	WNV
San Joaquin	SJCM8234	1251	Cx. tarsalis	Lodi	49	CO2	8/11/2020	WNV
Shasta	SHAS410	451	Cx. tarsalis	Cottonwood	31	CO2	8/12/2020	WNV
Solano	SOLA100004	285	Cx. tarsalis	Davis	50	CO2	8/7/2020	WNV



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Stanislaus	EAST1008	20335	Cx. tarsalis	Modesto	33	CO2	8/5/2020	WNV
Stanislaus	EAST1012	20336	Cx. tarsalis	Modesto	14	CO2	8/5/2020	WNV
Stanislaus	EAST1025	20344	Cx. pipiens	Modesto	50	CO2	8/6/2020	WNV
Stanislaus	EAST1025	20345	Cx. pipiens	Modesto	50	CO2	8/6/2020	WNV
Stanislaus	EAST1051	20351	Cx. tarsalis	Knights Ferry	24	CO2	8/7/2020	WNV
Stanislaus	EAST2002	20349	Cx. pipiens	Modesto	50	CO2	8/6/2020	WNV
Stanislaus	EAST2016	20352	Cx. pipiens	Oakdale	50	CO2	8/7/2020	WNV
Stanislaus	EAST2016	20353	Cx. pipiens	Oakdale	50	CO2	8/7/2020	WNV
Stanislaus	EAST2021	20340	Cx. pipiens	modesto	24	GRVD	8/6/2020	WNV
Stanislaus	EAST2025	20350	Cx. pipiens	Modesto	14	GRVD	8/7/2020	WNV
Stanislaus	TRLK1509	704	Cx. pipiens	Turlock	50	CO2	8/11/2020	WNV
Stanislaus	TRLK1509	705	Cx. tarsalis	Turlock	39	CO2	8/11/2020	WNV
Stanislaus	TRLK1615	654	Cx. tarsalis	Modesto	50	CO2	8/11/2020	WNV
Stanislaus	TRLK1615	659	Cx. pipiens	Modesto	25	CO2	8/11/2020	WNV
Stanislaus	TRLK20161	630	Cx. pipiens	Ceres	50	CO2	8/5/2020	WNV
Stanislaus	TRLK20161	631	Cx. pipiens	Ceres	50	CO2	8/5/2020	WNV
Stanislaus	TRLK20331	628	Cx. pipiens	Ceres	41	CO2	8/5/2020	WNV
Stanislaus	TRLK319	709	Cx. tarsalis	Newman	50	CO2	8/11/2020	WNV
Stanislaus	TRLK424	660	Cx. pipiens	Patterson	26	CO2	8/11/2020	WNV
Stanislaus	TRLK424	661	Cx. tarsalis	Patterson	50	CO2	8/11/2020	WNV
Stanislaus	TRLK424	662	Cx. tarsalis	Patterson	50	CO2	8/11/2020	WNV
Stanislaus	TRLK424	663	Cx. tarsalis	Patterson	50	CO2	8/11/2020	WNV
Stanislaus	TRLK424	664	Cx. tarsalis	Patterson	50	CO2	8/11/2020	WNV
Stanislaus	TRLK424	665	Cx. tarsalis	Patterson	50	CO2	8/11/2020	WNV
Stanislaus	TRLK424	666	Cx. tarsalis	Patterson	50	CO2	8/11/2020	WNV
Stanislaus	TRLK424	667	Cx. tarsalis	Patterson	50	CO2	8/11/2020	WNV
Stanislaus	TRLK548	636	Cx. tarsalis	Newman	50	CO2	8/11/2020	WNV
Stanislaus	TRLK549	700	Cx. tarsalis	Newman	50	CO2	8/11/2020	WNV
Stanislaus	TRLK549	701	Cx. tarsalis	Newman	50	CO2	8/11/2020	WNV
Stanislaus	TRLK9732	686	Cx. tarsalis	Newman	50	CO2	8/11/2020	WNV
Stanislaus	TRLK9732	689	Cx. tarsalis	Newman	50	CO2	8/11/2020	WNV
Sutter	SUYA0	358	Cx. tarsalis	Yuba City	12	REST	8/11/2020	WNV
Sutter	SUYA15	363	Cx. tarsalis	Robbins	50	CO2	8/12/2020	WNV
Sutter	SUYA24	372	Cx. tarsalis	Yuba City	50	REST	8/10/2020	WNV
Tulare	DLNO96	178	Cx. quinquefasciatus	Earlimart	50	CO2	8/5/2020	WNV
Tulare	DLTA6236	1602	Cx. tarsalis	Kingsburg	22	CO2	8/12/2020	WNV
Tulare	DLTA6330	1603	Cx. quinquefasciatus	Kingsburg	40	CO2	8/12/2020	SLEV
Tulare	DLTA6330	1609	Cx. quinquefasciatus	Kingsburg	13	CO2	8/12/2020	WNV
Tulare	DLTA6330	1610	Cx. stigmatosoma	Kingsburg	20	CO2	8/12/2020	WNV
Tulare	DLTA6404	1543	Cx. quinquefasciatus	Dinuba	14	CO2	8/7/2020	WNV
Tulare	DLTA6404	1544	Cx. tarsalis	Dinuba	31	CO2	8/7/2020	WNV
Tulare	DLTA6407	1631	Cx. quinquefasciatus	Dinuba	45	GRVD	8/13/2020	WNV
Tulare	DLTA8528	1589	Cx. quinquefasciatus	Visalia	23	GRVD	8/11/2020	WNV
Tulare	TLRE192435	143	Cx. quinquefasciatus	Tulare	50	GRVD	8/4/2020	WNV
Tulare	TLRE192436	125	Cx. quinquefasciatus	Tulare	50	GRVD	7/21/2020	WNV
Tulare	TLRE192436	150	Cx. quinquefasciatus	Tulare	50	GRVD	8/6/2020	WNV
Tulare	TLRE202402	144	Cx. quinquefasciatus	Tulare	50	GRVD	8/4/2020	WNV
Tulare	TLRE202415	132	Cx. quinquefasciatus	Tulare	50	GRVD	7/24/2020	WNV
Yolo	SAYO104006	4111	Cx. tarsalis	Dunnigan	50	CO2	8/11/2020	WNV
Yolo	SAYO115008	4098	Cx. tarsalis	Woodland	50	CO2	8/11/2020	WNV

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Yolo	SAYO115008	4100	Cx. tarsalis	Woodland	50	CO2	8/11/2020	WNV
Yolo	SAYO115008	4101	Cx. tarsalis	Woodland	50	CO2	8/11/2020	WNV
Yolo	SAYO135005	3949	Cx. tarsalis	Woodland	2	GRVD	8/7/2020	WNV
Yolo	SAYO135006	3953	Cx. tarsalis	Woodland	50	CO2	8/7/2020	WNV
Yolo	SAYO136010	3880	Cx. tarsalis	Woodland	50	CO2	8/7/2020	WNV
Yolo	SAYO145005	3993	Cx. tarsalis	Davis	50	CO2	8/11/2020	WNV
Yolo	SAYO145016	3998	Cx. tarsalis	Davis	41	CO2	8/11/2020	WNV
Yolo	SAYO146002	4019	Cx. tarsalis	Davis	50	CO2	8/11/2020	WNV
Yolo	SAYO146002	4021	Cx. tarsalis	Davis	50	CO2	8/11/2020	WNV

### Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01
Tulare	TLRE202436	Tulare	8/4/2020	WNV	3619

## 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](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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