

## California Arbovirus Surveillance Bulletin #17

Week 32 Friday, August 7, 2020



### Weekly Update

#### **Humans**

**Five human cases of West Nile virus (WNV) illness were reported this week from Stanislaus County.** In 2020, a total of 10 human WNV cases have been reported from 3 counties. Of the 10 cases, 6 (60%) had neuroinvasive illness; no fatalities have been reported. The median age of the individuals is 61 years (range: 51–77 years) and 8 (80%) are male. Dates of symptom onset ranged from June 20 to July 19. In addition to the 10 cases, 2 asymptomatic WNV-positive blood donors have been reported from Los Angeles (1) and Stanislaus (1) counties. At this time last year, 10 human WNV cases had been reported from 6 counties.

#### **Dead Birds**

A total of 17 WNV positive dead birds were reported this week from 4 counties: Alameda (1), Los Angeles (4), Sacramento (10), and Yolo (2). **This is the first detection of WNV in Alameda County and the first positive birds from Yolo County this year.** In 2020, a total of 81 WNV positive dead birds have been reported from 14 counties. At this time last year, 58 WNV positive dead birds had been reported from 9 counties.

#### **Mosquito Pools**

##### West Nile virus

A total of 201 WNV positive mosquito pools were reported this week from 19 counties: Butte (4), Fresno (30), Glenn (2), Kings (15), Los Angeles (45), Madera (7), Merced (6), Orange (8), Placer (10), Riverside (6), Sacramento (5), San Joaquin (13), Santa Clara (1), Shasta (4), Stanislaus (26), Sutter (4), Tulare (5), Yolo (9), and Yuba (1). **This is first detection of WNV activity in Yuba County and the first WNV positive mosquitoes reported from Glenn County this year.** In 2020, a total of 675 WNV positive mosquito pools have been reported from 23 counties. At this time last year, 1,647 WNV positive mosquito pools had been reported from 22 counties.

##### St. Louis encephalitis virus

A total of 35 St. Louis encephalitis virus (SLEV) positive mosquito pools were reported this week from 5 counties: Fresno (14), Kern (1), Kings (1), Riverside (18), and Tulare (1). **This is the first detection of SLEV activity in Kings and Tulare counties this year.** In 2020, a total of 178 SLEV positive mosquito pools have been reported from Fresno (58), Imperial (9), Kern (6), Kings (1), Riverside (103), and Tulare (1) counties. At this time last year, 114 SLEV positive mosquito pools had been reported from 5 counties.

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### Sentinel Chickens

A total of nine WNV positive chickens were reported this week from three counties: Butte (2), Glenn (1), and Merced (6). **This is the first detection of WNV activity in Glenn County this year.** In 2020, a total of 21 chickens have tested positive for WNV from 4 counties. At this time last year, 10 WNV positive chickens had been reported from 4 counties.

2019 & 2020 YTD West Nile Virus Comparisons		
	2019	2020
Total # Dead Bird Reports	3,547	3,255
# Positive Counties	23	27
# Human Cases	10	10
# Positive Dead Birds / # Tested	58 / 1,085	81 / 866
# Positive Mosquito Pools / # Tested	1,647 / 25,270	675 / 21,775
# Seroconversions / # Tested	10 / 5,095	21 / 3,618

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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				11	4
Fresno			4	102	
Glenn				2	1
Imperial				3	
Kern				10	
Kings				22	
Lake				3	
Los Angeles	1		12	92	2
Madera	1			13	
Merced			2	24	14
Napa			1		
Orange			4	34	
Placer				15	
Riverside			1	40	
Sacramento			42	25	
San Diego				2	
San Joaquin			1	53	
Santa Clara			5	8	
Shasta				6	
Solano			1		
Stanislaus	8	1	4	165	
Sutter				8	
Tulare			1	23	
Yolo			2	13	
Yuba				1	
<b>Totals</b>	<b>10</b>	<b>2</b>	<b>81</b>	<b>675</b>	<b>21</b>

*\*Does not include asymptomatic infections*

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## TESTING SUMMARIES

### Humans

		WNV	SLE	WEE
Human Cases	Week	5	0	0
	YTD	10	0	0

### Dead Birds

		Number Tested	WNV Positive
Dead Birds	Week	73	17
	YTD	866	81

### Chickens

		Number Tested	WNV Positive	SLEV Positive	WEEV Positive
Chicken Sera	Week	337	9	0	0
	YTD	3,618	21	0	0

### Mosquitoes

		Positive / Total Tested						
Mosquito Pools	Week	WNV	SLEV	WEEV	CHIK	DENV	ZIKA	
		Week	201 / 1,835	35 / 1,648	0 / 1,535	0 / 76	0 / 76	0 / 76
		YTD	675 / 21,775	178 / 21,069	0 / 19,741	0 / 211	0 / 211	0 / 211

## NEW POSITIVES

### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Dublin	94568	American Crow	8/5/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Burbank	91504	Northern Mockingbird	7/29/2020	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Los Angeles	91326	American Crow	7/22/2020	WNV
Los Angeles	Los Angeles Co West VCD	Culver City	90230	American Crow	7/30/2020	WNV
Los Angeles	Los Angeles Co West VCD	Los Angeles	90045	American Crow	7/27/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Antelope	95843	Cooper's Hawk	7/30/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	7/24/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	California Scrub-Jay	8/4/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Yellow-billed Magpie	7/28/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	California Scrub-Jay	8/3/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	California Scrub-Jay	8/1/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	California Scrub-Jay	8/1/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	House Finch	7/31/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	American Crow	7/29/2020	WNV
Sacramento	Sacramento-Yolo MVCD	Wilton	95693	Common Raven	8/2/2020	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	California Scrub-Jay	8/2/2020	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	Black-crowned Night-Heron	7/30/2020	WNV

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**Mosquito Pools**

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO116	291	Cx. tarsalis	Nelson	50	CO2	8/5/20	WNV
Butte	BUCO123	279	Cx. tarsalis	Oroville	50	CO2	8/4/20	WNV
Butte	BUCO144	277	Cx. tarsalis	Honcut	50	CO2	8/4/20	WNV
Butte	BUCO61	270	Cx. tarsalis	Chico	50	CO2	7/30/20	WNV
Fresno	CNSL1050	468	Cx. quinquefasciatus	Fresno	31	GRVD	7/29/20	SLEV
Fresno	CNSL1050	468	Cx. quinquefasciatus	Fresno	31	GRVD	7/29/20	WNV
Fresno	CNSL1270	462	Cx. quinquefasciatus	Fresno	36	GRVD	7/29/20	SLEV
Fresno	CNSL1449	485	Cx. quinquefasciatus	Clovis	17	GRVD	7/31/20	SLEV
Fresno	CNSL1478	771	Cx. quinquefasciatus	Clovis	16	GRVD	7/29/20	SLEV
Fresno	CNSL1521	463	Cx. quinquefasciatus	Fresno	39	GRVD	7/29/20	SLEV
Fresno	CNSL1521	463	Cx. quinquefasciatus	Fresno	39	GRVD	7/29/20	WNV
Fresno	CNSL1566	773	Cx. quinquefasciatus	Fresno	21	GRVD	7/29/20	SLEV
Fresno	CNSL1760	775	Cx. quinquefasciatus	Fresno	38	GRVD	7/29/20	SLEV
Fresno	CNSL1760	775	Cx. quinquefasciatus	Fresno	38	GRVD	7/29/20	WNV
Fresno	CNSL1822	481	Cx. quinquefasciatus	Clovis	19	GRVD	7/31/20	SLEV
Fresno	CNSL1822	483	Cx. quinquefasciatus	Clovis	50	GRVD	7/31/20	SLEV
Fresno	CNSL1822	483	Cx. quinquefasciatus	Clovis	50	GRVD	7/31/20	WNV
Fresno	CNSL1857	786	Cx. quinquefasciatus	Clovis	16	GRVD	7/31/20	WNV
Fresno	CNSL1859	768	Cx. quinquefasciatus	Fresno	34	GRVD	7/28/20	WNV
Fresno	CNSL1973	464	Cx. quinquefasciatus	Fresno	13	GRVD	7/29/20	WNV
Fresno	CNSL1987	776	Cx. quinquefasciatus	Clovis	36	GRVD	7/29/20	SLEV
Fresno	CNSL1987	776	Cx. quinquefasciatus	Clovis	36	GRVD	7/29/20	WNV
Fresno	CNSL2523	783	Cx. quinquefasciatus	Sanger	12	GRVD	7/30/20	WNV
Fresno	CNSL2548	472	Cx. tarsalis	Clovis	50	BGSENT	7/30/20	SLEV
Fresno	CNSL3099	789	Cx. stigmatosoma	Reedley	42	GRVD	7/31/20	WNV
Fresno	CNSL3422	466	Cx. quinquefasciatus	Reedley	50	BGSENT	7/29/20	WNV
Fresno	CNSL4129	779	Cx. quinquefasciatus	Selma	33	GRVD	7/30/20	WNV
Fresno	CNSL6074	456	Cx. quinquefasciatus	Caruthers	50	GRVD	7/28/20	WNV
Fresno	CNSL6292	762	Cx. quinquefasciatus	Caruthers	23	GRVD	7/28/20	WNV
Fresno	CNSL6298	458	Cx. quinquefasciatus	Caruthers	50	BGSENT	7/28/20	WNV
Fresno	CNSL8041	465	Cx. quinquefasciatus	Fresno	44	GRVD	7/29/20	WNV
Fresno	CNSL8062	793	Cx. quinquefasciatus	Fresno	17	GRVD	7/31/20	WNV
Fresno	CNSL8127	774	Cx. quinquefasciatus	Fresno	50	GRVD	7/29/20	WNV
Fresno	CNSL9060	461	Cx. quinquefasciatus	Clovis	50	GRVD	7/29/20	SLEV
Fresno	CNSL9209	781	Cx. quinquefasciatus	Clovis	50	GRVD	7/30/20	WNV
Fresno	CNSL9216	780	Cx. quinquefasciatus	Clovis	32	GRVD	7/30/20	WNV
Fresno	FRNO182	329	Cx. quinquefasciatus	Fresno	28	GRVD	8/6/20	SLEV
Fresno	FRNO8	319	Cx. quinquefasciatus	Fresno	50	GRVD	8/4/20	WNV
Fresno	FRNO8	320	Cx. quinquefasciatus	Fresno	38	GRVD	8/4/20	WNV
Fresno	FRNO88	328	Cx. quinquefasciatus	Fresno	16	GRVD	8/6/20	WNV
Fresno	FRWS200003	203	Cx. tarsalis	Dos Palos	50	CO2	8/4/20	WNV
Fresno	FRWS2105	202	Cx. tarsalis	Dos Palos	50	CO2	8/4/20	WNV
Fresno	FRWS3104	206	Cx. tarsalis	Firebaugh	37	CO2	8/4/20	WNV
Fresno	FRWS400017	189	Cx. tarsalis	Mendota	50	CO2	8/4/20	WNV
Fresno	FRWS4102	191	Cx. tarsalis	Kerman	50	CO2	8/4/20	SLEV
Fresno	FRWS4102	191	Cx. tarsalis	Kerman	50	CO2	8/4/20	WNV

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Fresno	FRWS5101	190	Cx. tarsalis	Mendota	50	CO2	8/4/20	WNV
Fresno	FRWS5110	193	Cx. tarsalis	Tranquillity	50	CO2	8/4/20	WNV
Glenn	BUCO47	267	Cx. tarsalis	Hamilton City	50	CO2	7/29/20	WNV
Glenn	BUCO47	269	Cx. tarsalis	Hamilton City	50	CO2	7/29/20	WNV
Kern	KERN3023	382	Cx. tarsalis	Wasco	50	CO2	7/28/20	SLEV
Kings	KNGS3018	323	Cx. tarsalis	Lemoore	50	CO2	7/29/20	WNV
Kings	KNGS3030	302	Cx. tarsalis	Lemoore	50	CO2	7/22/20	WNV
Kings	KNGS3030	336	Cx. tarsalis	Lemoore	50	CO2	7/30/20	WNV
Kings	KNGS3030	337	Cx. tarsalis	Lemoore	50	CO2	7/30/20	WNV
Kings	KNGS3030	338	Cx. tarsalis	Lemoore	50	CO2	7/30/20	WNV
Kings	KNGS3033	339	Cx. tarsalis	Hanford	50	CO2	7/30/20	WNV
Kings	KNGS3046	346	Cx. tarsalis	Hanford	50	CO2	7/31/20	SLEV
Kings	KNGS3100	309	Cx. tarsalis	Hanford	13	CO2	7/23/20	WNV
Kings	KNGS4408	340	Cx. tarsalis	Lemoore	32	BGSENT	7/31/20	WNV
Kings	KNGS4408	341	Cx. pipiens	Lemoore	50	BGSENT	7/31/20	WNV
Kings	KNGS4408	342	Cx. pipiens	Lemoore	30	BGSENT	7/31/20	WNV
Kings	KNGS55014	315	Cx. tarsalis	Hanford	16	BGSENT	7/28/20	WNV
Kings	KNGS55022	344	Cx. pipiens	Hanford	10	BGSENT	7/31/20	WNV
Kings	KNGS55023	312	Cx. tarsalis	Hanford	16	BGSENT	7/24/20	WNV
Kings	KNGS5504	306	Cx. pipiens	Hanford	23	BGSENT	7/23/20	WNV
Kings	KNGS5510	322	Cx. pipiens	Hanford	13	BGSENT	7/29/20	WNV
Los Angeles	ANTV118737	69	Cx. quinquefasciatus	Palmdale	13	BGSENT	8/5/20	WNV
Los Angeles	GRLA2007	5468	Cx. quinquefasciatus	Toluca Lake	50	GRVD	7/23/20	WNV
Los Angeles	GRLA2017	5469	Cx. quinquefasciatus	Toluca Lake	50	GRVD	7/23/20	WNV
Los Angeles	GRLA2029	5460	Cx. quinquefasciatus	Canoga Park	50	GRVD	7/22/20	WNV
Los Angeles	GRLA2031	5452	Cx. quinquefasciatus	Northridge	50	GRVD	7/21/20	WNV
Los Angeles	GRLA2032	5449	Cx. quinquefasciatus	Northridge	50	GRVD	7/21/20	WNV
Los Angeles	GRLA2034	5447	Cx. quinquefasciatus	Tarzana	50	GRVD	7/21/20	WNV
Los Angeles	GRLA2035	5448	Cx. quinquefasciatus	Tarzana	50	GRVD	7/21/20	WNV
Los Angeles	GRLA2116	384	Cx. quinquefasciatus	South Gate	49	GRVD	7/28/20	WNV
Los Angeles	GRLA2166	403	Cx. quinquefasciatus	Montebello	50	GRVD	7/29/20	WNV
Los Angeles	GRLA2247	406	Cx. quinquefasciatus	Pico Rivera	50	GRVD	7/29/20	WNV
Los Angeles	GRLA2323	407	Cx. quinquefasciatus	Los Angeles	30	GRVD	7/30/20	WNV
Los Angeles	GRLA2346	404	Cx. quinquefasciatus	Montebello	49	GRVD	7/29/20	WNV
Los Angeles	GRLA2419	5522	Cx. quinquefasciatus	Panorama City	50	GRVD	7/30/20	WNV
Los Angeles	GRLA2421	5523	Cx. quinquefasciatus	Panorama City	33	GRVD	7/30/20	WNV
Los Angeles	GRLA2465	5508	Cx. quinquefasciatus	Los Feliz	50	GRVD	7/29/20	WNV
Los Angeles	GRLA2478	5486	Cx. quinquefasciatus	Sunland	50	GRVD	7/24/20	WNV
Los Angeles	GRLA2539	5450	Cx. quinquefasciatus	Porter Ranch	39	BGSENT	7/21/20	WNV
Los Angeles	GRLA2540	5451	Cx. quinquefasciatus	Porter Ranch	50	GRVD	7/21/20	WNV
Los Angeles	GRLA2555	5454	Cx. quinquefasciatus	Encino	50	GRVD	7/21/20	WNV
Los Angeles	GRLA2574	5515	Cx. quinquefasciatus	Sherman Oaks	50	GRVD	7/30/20	WNV
Los Angeles	GRLA2580	5514	Cx. quinquefasciatus	Sherman Oaks	50	GRVD	7/30/20	WNV
Los Angeles	GRLA2635	5446	Cx. quinquefasciatus	Van Nuys	50	GRVD	7/21/20	WNV
Los Angeles	GRLA2636	5453	Cx. quinquefasciatus	Van Nuys	50	GRVD	7/21/20	WNV
Los Angeles	GRLA2637	5520	Cx. quinquefasciatus	Van Nuys	50	GRVD	7/30/20	WNV
Los Angeles	GRLA2655	5518	Cx. quinquefasciatus	Encino	24	BGSENT	7/30/20	WNV
Los Angeles	GRLA2724	5459	Cx. quinquefasciatus	Winnetka	50	GRVD	7/22/20	WNV
Los Angeles	GRLA2937	5511	Cx. quinquefasciatus	Burbank	50	GRVD	7/29/20	WNV
Los Angeles	GRLA2953	397	Cx. quinquefasciatus	Santa Fe Springs	50	GRVD	7/29/20	WNV

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Los Angeles	GRLA3027	5466	Cx. quinquefasciatus	Studio City	50	GRVD	7/23/20	WNV
Los Angeles	GRLA3034	5524	Cx. quinquefasciatus	North Hills	50	GRVD	7/30/20	WNV
Los Angeles	GRLA3036	5462	Cx. quinquefasciatus	Canoga Park	50	GRVD	7/22/20	WNV
Los Angeles	GRLA3038	5472	Cx. quinquefasciatus	Valley Village	50	GRVD	7/23/20	WNV
Los Angeles	GRLA3046	379	Cx. quinquefasciatus	Bellflower	39	GRVD	7/28/20	WNV
Los Angeles	GRLA3048	402	Cx. quinquefasciatus	Pico Rivera	50	GRVD	7/29/20	WNV
Los Angeles	GRLA3049	391	Cx. quinquefasciatus	Downey	19	GRVD	7/28/20	WNV
Los Angeles	GRLA3066	5475	Cx. quinquefasciatus	Valley Glen	50	GRVD	7/23/20	WNV
Los Angeles	GRLA3069	5473	Cx. quinquefasciatus	Valley Village	50	GRVD	7/23/20	WNV
Los Angeles	GRLA3076	5476	Cx. quinquefasciatus	Valley Glen	50	GRVD	7/23/20	WNV
Los Angeles	GRLA3080	5474	Cx. quinquefasciatus	North Hollywood	50	GRVD	7/23/20	WNV
Los Angeles	GRLA3084	409	Cx. quinquefasciatus	Commerce	50	GRVD	7/30/20	WNV
Los Angeles	GRLA3102	5471	Cx. quinquefasciatus	Studio City	50	GRVD	7/23/20	WNV
Los Angeles	LACW1006	394	Cx. quinquefasciatus	Playa Del Rey	50	GRVD	7/29/20	WNV
Los Angeles	SGVA1077	778	Cx. quinquefasciatus	La Puente	50	GRVD	8/4/20	WNV
Los Angeles	SGVA695	804	Cx. quinquefasciatus	Rosemead	50	GRVD	8/5/20	WNV
Madera	MADR195	210	Cx. tarsalis	Madera	50	CO2	7/31/20	WNV
Madera	MADR195	211	Cx. tarsalis	Madera	50	CO2	7/31/20	WNV
Madera	MADR239	200	Cx. quinquefasciatus	Madera	21	CO2	7/30/20	WNV
Madera	MADR3334	202	Cx. quinquefasciatus	Madera	50	CO2	7/30/20	WNV
Madera	MADR3334	203	Cx. tarsalis	Madera	49	CO2	7/30/20	WNV
Madera	MADR692	205	Cx. quinquefasciatus	Madera	17	CO2	7/31/20	WNV
Madera	MADR889	188	Cx. tarsalis	Firebaugh	48	CO2	7/28/20	WNV
Merced	MERC201720	380	Cx. pipiens	Hilmar	33	CO2	8/4/20	WNV
Merced	MERC404	369	Culex pipiens	Hilmar	50	CO2	8/4/20	WNV
Merced	MERC405	371	Cx. tarsalis	Hilmar	50	CO2	8/4/20	WNV
Merced	MERC405	373	Cx. tarsalis	Hilmar	46	CO2	8/4/20	WNV
Merced	MERC405	374	Cx. pipiens	Hilmar	50	CO2	8/4/20	WNV
Merced	MERC405	376	Cx. pipiens	Hilmar	32	CO2	8/4/20	WNV
Orange	ORCO1031	3033	Cx. quinquefasciatus	Los Alamitos	28	GRVD	8/4/20	WNV
Orange	ORCO1037	3058	Cx. quinquefasciatus	La Habra	32	GRVD	8/4/20	WNV
Orange	ORCO1040	3093	Cx. quinquefasciatus	Orange	47	GRVD	8/4/20	WNV
Orange	ORCO170	3048	Cx. quinquefasciatus	Anaheim	32	GRVD	8/4/20	WNV
Orange	ORCO214	3136	Cx. quinquefasciatus	Fullerton	13	CO2	8/5/20	WNV
Orange	ORCO317	3074	Cx. quinquefasciatus	Fullerton	5	BGSENT	8/4/20	WNV
Orange	ORCO50	3079	Cx. quinquefasciatus	Buena Park	24	GRVD	8/4/20	WNV
Orange	ORCO82	3085	Cx. quinquefasciatus	Cypress	38	BGSENT	8/4/20	WNV
Placer	PLCR1023	1062	Cx. tarsalis	Roseville	4	CO2	8/4/20	WNV
Placer	PLCR191998	1017	Cx. tarsalis	Lincoln	50	CO2	8/4/20	WNV
Placer	PLCR191998	1018	Cx. tarsalis	Lincoln	50	CO2	8/4/20	WNV
Placer	PLCR194232	1070	Cx. tarsalis	Roseville	47	CO2	8/4/20	WNV
Placer	PLCR198710	1087	Cx. tarsalis	Sheridan	50	CO2	8/4/20	WNV
Placer	PLCR198710	1089	Cx. tarsalis	Sheridan	50	CO2	8/4/20	WNV
Placer	PLCR198710	1090	Cx. tarsalis	Sheridan	50	CO2	8/4/20	WNV
Placer	PLCR411	1020	Cx. tarsalis	Roseville	50	CO2	8/4/20	WNV
Placer	PLCR411	1021	Cx. tarsalis	Roseville	50	CO2	8/4/20	WNV
Placer	PLCR525	1035	Cx. tarsalis	Lincoln	47	CO2	8/4/20	WNV
Riverside	COAV0	3299	Cx. quinquefasciatus	Indio	50	BGSENT	7/31/20	SLEV
Riverside	COAV0	3300	Cx. quinquefasciatus	Indio	44	BGSENT	7/31/20	SLEV
Riverside	COAV0	3346	Cx. tarsalis	Indio	8	CO2	8/6/20	SLEV

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Riverside	COAV0	3348	Cx. quinquefasciatus	Indio	19	CO2	8/6/20	SLEV
Riverside	COAV0	3426	Cx. tarsalis	Indio	50	CO2	8/4/20	SLEV
Riverside	COAV0	3427	Cx. tarsalis	Indio	50	CO2	8/4/20	SLEV
Riverside	COAV0	3428	Cx. tarsalis	Indio	50	CO2	8/4/20	SLEV
Riverside	COAV0	3429	Cx. tarsalis	Indio	50	CO2	8/4/20	SLEV
Riverside	COAV0	3430	Cx. tarsalis	Indio	50	CO2	8/4/20	SLEV
Riverside	COAV0	3431	Cx. tarsalis	Indio	50	CO2	8/4/20	SLEV
Riverside	COAV10	3394	Cx. tarsalis	Oasis	43	CO2	8/4/20	SLEV
Riverside	COAV13	3395	Cx. tarsalis	Thermal	7	CO2	8/4/20	SLEV
Riverside	COAV200	3302	Cx. quinquefasciatus	Mecca	42	BGSENT	7/31/20	SLEV
Riverside	COAV200	3421	Cx. tarsalis	Mecca	50	CO2	8/4/20	SLEV
Riverside	COAV35	3352	Cx. tarsalis	Mecca	35	CO2	8/4/20	SLEV
Riverside	COAV45	3445	Cx. tarsalis	Mecca	49	CO2	8/4/20	SLEV
Riverside	COAV57	3434	Cx. tarsalis	North Shore	50	CO2	8/4/20	WNV
Riverside	COAV58	3436	Cx. tarsalis	North Shore	50	CO2	8/4/20	SLEV
Riverside	COAV58	3436	Cx. tarsalis	North Shore	50	CO2	8/4/20	WNV
Riverside	COAV58	3437	Cx. tarsalis	North Shore	50	CO2	8/4/20	SLEV
Riverside	COAV58	3437	Cx. tarsalis	North Shore	50	CO2	8/4/20	WNV
Riverside	COAV58	3438	Cx. tarsalis	North Shore	36	CO2	8/4/20	WNV
Riverside	RIVR54	314	Cx. tarsalis	Moreno Valley	50	CO2	7/29/20	WNV
Riverside	RIVR90	322	Cx. tarsalis	Nuevo	50	CO2	8/4/20	WNV
Sacramento	SAYO214013	3072	Cx. pipiens	Carmichael	7	GRVD	7/24/20	WNV
Sacramento	SAYO214056	3060	Cx. pipiens	Carmichael	50	GRVD	7/24/20	WNV
Sacramento	SAYO223003	3082	Cx. pipiens	Sacramento	11	CO2	7/24/20	WNV
Sacramento	SAYO223003	3083	Cx. pipiens	Sacramento	21	GRVD	7/24/20	WNV
Sacramento	SAYO254034	3792	Cx. pipiens	Galt	45	BGSENT	8/4/20	WNV
San Joaquin	SJCM8083	1191	Cx. tarsalis	Escalon	39	CO2	8/4/20	WNV
San Joaquin	SJCM8083	1192	Cx. pipiens	Escalon	19	CO2	8/4/20	WNV
San Joaquin	SJCM8206	1164	Cx. tarsalis	Lodi	50	CO2	8/4/20	WNV
San Joaquin	SJCM8206	1166	Cx. tarsalis	Lodi	50	CO2	8/4/20	WNV
San Joaquin	SJCM8206	1167	Cx. tarsalis	Lodi	50	CO2	8/4/20	WNV
San Joaquin	SJCM8206	1168	Cx. tarsalis	Lodi	50	CO2	8/4/20	WNV
San Joaquin	SJCM8206	1169	Cx. tarsalis	Lodi	50	CO2	8/4/20	WNV
San Joaquin	SJCM8206	1170	Cx. tarsalis	Lodi	50	CO2	8/4/20	WNV
San Joaquin	SJCM8206	1171	Cx. tarsalis	Lodi	50	CO2	8/4/20	WNV
San Joaquin	SJCM8206	1172	Cx. tarsalis	Lodi	50	CO2	8/4/20	WNV
San Joaquin	SJCM8206	1173	Cx. tarsalis	Lodi	50	CO2	8/4/20	WNV
San Joaquin	SJCM8218	1183	Cx. tarsalis	Escalon	50	CO2	8/4/20	WNV
San Joaquin	SJCM8228	1189	Cx. pipiens	Escalon	50	CO2	8/4/20	WNV
Santa Clara	STCL31840	1335	Cx. pipiens	Los Altos Hills	3	GRVD	7/28/20	WNV
Shasta	SHAS224	370	Cx. tarsalis	Cottonwood	12	CO2	8/4/20	WNV
Shasta	SHAS26	426	Cx. pipiens	Anderson	38	CO2	8/6/20	WNV
Shasta	SHAS410	414	Cx. tarsalis	Cottonwood	24	CO2	8/6/20	WNV
Shasta	SHAS80	421	Cx. tarsalis	Anderson	22	CO2	8/6/20	WNV
Stanislaus	EAST1008	20289	Cx. tarsalis	Modesto	50	CO2	7/29/20	WNV
Stanislaus	EAST1012	20290	Cx. tarsalis	Modesto	14	CO2	7/29/20	WNV
Stanislaus	EAST1031	20296	Cx. tarsalis	Kinghts Ferry	33	CO2	7/30/20	WNV
Stanislaus	EAST1046	20311	Cx. pipiens	Modesto	15	GRVD	7/31/20	WNV
Stanislaus	EAST1077	20312	Cx. pipiens	Modesto	32	GRVD	7/31/20	WNV
Stanislaus	EAST2002	20317	Cx. pipiens	Modesto	50	GRVD	7/31/20	WNV



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Stanislaus	EAST2002	20318	Cx. pipiens	Modesto	50	GRVD	7/31/20	WNV
Stanislaus	EAST2002	20319	Cx. pipiens	Modesto	50	CO2	7/31/20	WNV
Stanislaus	EAST2016	20300	Cx. pipiens	Oakdale	50	CO2	7/30/20	WNV
Stanislaus	EAST2023	20313	Cx. pipiens	Modesto	11	GRVD	7/31/20	WNV
Stanislaus	EAST2026	20329	Cx. pipiens	Modesto	29	GRVD	7/31/20	WNV
Stanislaus	EAST2027	20292	Cx. pipiens	Modesto	50	GRVD	7/29/20	WNV
Stanislaus	EAST2027	20293	Cx. pipiens	Modesto	20	GRVD	7/29/20	WNV
Stanislaus	EAST2027	20294	Cx. pipiens	Modesto	41	GRVD	7/29/20	WNV
Stanislaus	TRLK1214	591	Cx. pipiens	Turlock	17	CO2	8/4/20	WNV
Stanislaus	TRLK1301	582	Cx. pipiens	Denair	30	CO2	8/4/20	WNV
Stanislaus	TRLK1302	579	Cx. pipiens	Turlock	20	CO2	8/4/20	WNV
Stanislaus	TRLK17126	568	Cx. pipiens	Turlock	41	CO2	8/4/20	WNV
Stanislaus	TRLK18102	599	Cx. tarsalis	Turlock	50	CO2	8/4/20	WNV
Stanislaus	TRLK1905	612	Cx. pipiens	Denair	50	CO2	8/4/20	WNV
Stanislaus	TRLK20258	571	Cx. pipiens	Turlock	50	CO2	8/4/20	WNV
Stanislaus	TRLK516	603	Cx. pipiens	Denair	50	CO2	8/4/20	WNV
Stanislaus	TRLK516	604	Cx. pipiens	Denair	26	CO2	8/4/20	WNV
Stanislaus	TRLK516	605	Cx. tarsalis	Denair	35	CO2	8/4/20	WNV
Stanislaus	TRLK526	594	Cx. pipiens	Denair	50	CO2	8/4/20	WNV
Stanislaus	TRLK526	595	Cx. tarsalis	Denair	50	CO2	8/4/20	WNV
Sutter	SUYA31	353	Cx. tarsalis	Rio Oso	50	REST	8/4/20	WNV
Sutter	SUYA71	348	Cx. tarsalis	Meridian	11	REST	8/4/20	WNV
Sutter	SUYA84	328	Cx. tarsalis	Yuba City	23	REST	8/4/20	WNV
Sutter	SUYA84	329	Cx. pipiens	Yuba City	10	REST	8/4/20	WNV
Tulare	DLNO144	163	Cx. quinquefasciatus	Earlimart	50	BGSENT	7/30/20	WNV
Tulare	DLNO8	160	Cx. tarsalis	Delano	50	CO2	7/29/20	WNV
Tulare	DLTA6408	1477	Cx. quinquefasciatus	Dinuba	13	GRVD	8/4/20	SLEV
Tulare	DLTA8413	1470	Cx. quinquefasciatus	Visalia	50	BGSENT	7/31/20	WNV
Tulare	DLTA8414	1416	Cx. tarsalis	Visalia	28	CO2	7/31/20	WNV
Tulare	DLTA8421	1516	Cx. quinquefasciatus	Goshen	50	CO2	8/5/20	WNV
Yolo	SAYO104006	3761	Cx. tarsalis	Dunnigan	50	CO2	8/4/20	WNV
Yolo	SAYO104006	3763	Cx. tarsalis	Dunnigan	50	CO2	8/4/20	WNV
Yolo	SAYO115008	3777	Cx. tarsalis	Woodland	50	CO2	8/4/20	WNV
Yolo	SAYO115008	3781	Cx. tarsalis	Woodland	50	CO2	8/4/20	WNV
Yolo	SAYO116002	3742	Cx. pipiens	Knights Landing	7	GRVD	8/4/20	WNV
Yolo	SAYO136010	3571	Cx. tarsalis	Woodland	50	CO2	7/31/20	WNV
Yolo	SAYO145013	3785	Cx. tarsalis	Davis	50	CO2	8/4/20	WNV
Yolo	SAYO145016	3722	Cx. pipiens	Davis	19	GRVD	8/4/20	WNV
Yolo	SAYO146002	3712	Cx. tarsalis	Davis	50	CO2	8/4/20	WNV
Yuba	SUYA39	335	Cx. tarsalis	Marysville	50	CO2	8/4/20	WNV

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### Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02
Butte	BUCO0003	Oroville	7/28/2020	WNV	1834	
Butte	BUCO0005	Honcut	7/28/2020	WNV	1845	
Glenn	GLEN9701	Willows	7/29/2020	WNV	1794	
Merced	MERC0001	Merced	7/31/2020	WNV	1924	
Merced	MERC0006	Merced	7/31/2020	WNV	1940	1942
Merced	MERC0501	El Nido	7/31/2020	WNV	1945	1946
Merced	MERC201501	Le Grand	7/31/2020	WNV	1965	

## 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/arbovet/maps/ADB\\_Diseases\\_Map/index.html](http://www.cdc.gov/arbovet/maps/ADB_Diseases_Map/index.html)

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