

California Arbovirus Surveillance Bulletin #20

Week 33 Friday, August 19, 2022



WEEKLY UPDATE

Humans

West Nile virus

A total of 6 cases of West Nile virus (WNV) illness were reported this week: Fresno (3), Orange (1), Tulare (1), and Yolo (1). **These are the first human WNV cases reported from Fresno and Orange counties this year. In 2022, a total of 18 cases have been reported from 10 counties.** Of the 18 cases, 12 (67%) had neuroinvasive illness. The median age of case patients was 61 years and 12 (67%) of the case patients were male. The dates of symptom onset ranged from May 8 to August 4. In addition to the 18 WNV cases, 4 asymptomatic WNV-positive blood donors have been reported from 2 counties: Fresno (3), and Kern (1). At this time last year, 19 WNV cases had been reported from 10 counties.

St. Louis encephalitis virus

No human cases of St. Louis encephalitis virus (SLEV) were reported this week. In 2022, 3 SLEV human cases have been reported from 2 counties: Stanislaus (1), and Tulare (2). At this time last year, 0 SLEV cases had been reported.

Dead Birds

A total of 10 WNV positive dead birds were reported this week from 7 counties: Lake (1), Los Angeles (3), Orange (1), Sacramento (2), Sutter (1), Tulare (1), and Yolo (1). **This is the first detection of WNV activity in Lake County, and the first WNV positive dead bird from Orange County this year.** In 2022, 78 WNV positive dead birds have been reported from 15 counties. At this time last year, 129 WNV positive dead birds had been reported from 12 counties.

Mosquito Pools

West Nile virus

A total of 346 WNV positive mosquito pools were reported this week from 20 counties: Butte (10), Fresno (23), Kern (4), Lake (3), Los Angeles (57), Madera (14), Merced (1), Orange (8), Placer (18), Riverside (7), Sacramento (4), San Bernardino (10), San Joaquin (14), Santa Clara (1), Shasta (8), Stanislaus (6), Sutter (8), Tulare (134), Yolo (15), and Yuba (1). In 2022, 1,609 WNV positive mosquito pools have been reported from 23 counties. At this time last year, 1,253 WNV positive mosquito pools had been reported from 24 counties.

St. Louis encephalitis virus

A total of 5 SLEV positive mosquito pools were reported this week from 3 counties: Riverside (3), and Tulare (2). In 2022, 20 SLEV positive mosquito pools from 4 counties have been reported: Imperial (3), Kings (5), Riverside (9), and Tulare (3). At this time last year, 16 SLEV positive mosquito pools had been reported from 3 counties.

Sentinel Chickens

A total of 23 positive chickens were reported this week from 7 counties: Butte (12), Los Angeles (1), Merced (3), Sutter (2), Tehama (1), and Yuba (4). **This is the first detection of WNV activity in Tehama and Los Angeles counties this year.** In 2022, 40 WNV positive chickens have been reported from 7 counties. At this time last year, 31 WNV positive chickens had been reported from 7 counties.

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2021 & 2022 YTD West Nile Virus Comparisons		
	2021	2022
Total No. Dead Bird Reports	3,798	3,389
No. Positive Counties	26	25
No. Human Cases	19	18
No. Positive Dead Birds / No. Tested	129 / 1,157	78 / 902
No. Positive Mosquito Pools / No. Tested	1,253 / 22,890	1,609 / 24,322
No. Seroconversions / No. Tested	31 / 3,690	40 / 3,246

YTD WNV Activity by Element and County, 2022					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte	1		2	23	17
Contra Costa			1	2	
Fresno	3		2	206	
Imperial				1	
Kern	3	2		65	
Kings	1			62	
Lake			1	3	
Los Angeles	1		19	194	1
Madera				46	
Merced			1	5	6
Nevada			1		
Orange	1		1	24	
Placer				45	
Riverside				57	
Sacramento			23	17	
San Bernardino			3	44	
San Joaquin				118	
Santa Clara			8	12	
Shasta				23	
Solano	1		4	10	
Stanislaus	3			18	
Sutter			4	27	4
Tehama					1
Tulare	2		2	560	6
Yolo	2		6	37	
Yuba				10	5
Totals	18	2	78	1,609	40

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TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	6	0	0
	YTD	18	3	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Dead Birds	Week	10 / 54					
	YTD	78 / 902					
Chicken Sera	Week	23 / 259	0 / 259	0 / 259			
	YTD	40 / 3,246	0 / 3,246	0 / 3,246			
Mosquito Pools	Week	346 / 1,890	5 / 1,756	0 / 1,755	0 / 0	0 / 0	0 / 0
	YTD	1,609 / 24,322	20 / 21,273	0 / 21,229	0 / 280	0 / 280	0 / 280

POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Lake	Lake Co VCD	Lakeport	95453	American Crow	8/6/2022	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Cerritos	90701	American Crow	8/9/2022	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Whittier	90605	Sparrow	8/12/2022	WNV
Los Angeles	Los Angeles Co West VCD	Los Angeles	90004	American Crow	8/15/2022	WNV
Orange	Orange Co VCD	Brea	92821	American Crow	8/14/2022	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95814	American Crow	8/15/2022	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	Yellow-billed Magpie	8/10/2022	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95993	Yellow-billed Magpie	8/11/2022	WNV
Tulare	Delta MVCD	Visalia	93292	Great Horned Owl	8/12/2022	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/15/2022	WNV

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO 110	326	Cx. tarsalis	Hamilton City	50	CO2	8/8/2022	WNV
Butte	BUCO 12	320	Cx. tarsalis	Gridley	50	CO2	8/9/2022	WNV
Butte	BUCO 126	336	Cx. tarsalis	Chico	50	CO2	8/10/2022	WNV
Butte	BUCO 126	337	Cx. tarsalis	Chico	50	CO2	8/10/2022	WNV
Butte	BUCO 41	321	Cx. tarsalis	Gridley	50	CO2	8/9/2022	WNV
Butte	BUCO 41	322	Cx. tarsalis	Gridley	50	CO2	8/9/2022	WNV
Butte	BUCO 41	323	Cx. tarsalis	Gridley	50	CO2	8/9/2022	WNV

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Butte	BUCO 68	318	Cx. tarsalis	Gridley	37	CO2	8/8/2022	WNV
Butte	BUCO 91	313	Cx. tarsalis	Biggs	50	CO2	8/8/2022	WNV
Butte	BUCO 91	314	Cx. tarsalis	Biggs	50	CO2	8/8/2022	WNV
Fresno	CNSL 1364	109	Cx. quinquefasciatus	Clovis	50	GRVD	8/11/2022	WNV
Fresno	CNSL 1577	110	Cx. quinquefasciatus	Clovis	50	GRVD	8/11/2022	WNV
Fresno	CNSL 1859	114	Cx. quinquefasciatus	Fresno	50	GRVD	8/12/2022	WNV
Fresno	CNSL 3501	111	Cx. quinquefasciatus	Orange Cove	38	GRVD	8/11/2022	WNV
Fresno	CNSL 3502	112	Cx. quinquefasciatus	Orange Cove	40	GRVD	8/11/2022	WNV
Fresno	CNSL 6032	77	Cx. tarsalis	Riverdale	50	BGSENT	8/9/2022	WNV
Fresno	CNSL 8071	593	Cx. quinquefasciatus	Fresno	50	GRVD	8/9/2022	WNV
Fresno	CNSL 8165	106	Cx. quinquefasciatus	Clovis	47	GRVD	8/10/2022	WNV
Fresno	CNSL 9163	99	Cx. quinquefasciatus	Clovis	50	GRVD	8/9/2022	WNV
Fresno	FRNO 112	689	Cx. quinquefasciatus	Fresno	50	GRVD	8/16/2022	WNV
Fresno	FRNO 151	704	Cx. quinquefasciatus	Fresno	47	GRVD	8/17/2022	WNV
Fresno	FRNO 160	710	Cx. quinquefasciatus	Fresno	41	GRVD	8/17/2022	WNV
Fresno	FRNO 249	685	Cx. quinquefasciatus	Fresno	36	GRVD	8/16/2022	WNV
Fresno	FRNO 32	671	Cx. quinquefasciatus	Fresno	50	GRVD	8/11/2022	WNV
Fresno	FRNO 62	684	Cx. tarsalis	Fresno	12	CO2	8/11/2022	WNV
Fresno	FRNO 8	692	Cx. quinquefasciatus	Fresno	50	GRVD	8/16/2022	WNV
Fresno	FRNO 8002	695	Cx. quinquefasciatus	Fresno	29	GRVD	8/16/2022	WNV
Fresno	FRWS 100006	252	Cx. tarsalis	Dos Palos	50	CO2	8/16/2022	WNV
Fresno	FRWS 100020	238	Cx. tarsalis	Dos Palos	50	BGSENT	8/10/2022	WNV
Fresno	FRWS 2105	246	Cx. tarsalis	Dos Palos	50	CO2	8/16/2022	WNV
Fresno	FRWS 300031	256	Cx. tarsalis	Firebaugh	50	CO2	8/16/2022	WNV
Fresno	FRWS 400017	242	Cx. tarsalis	Mendota	50	CO2	8/16/2022	WNV
Fresno	FRWS 5110	243	Cx. tarsalis	Tranquillity	46	CO2	8/16/2022	WNV
Kern	DLNO 160	136	Cx. quinquefasciatus	McFarland	14	GRVD	8/12/2022	WNV
Kern	DLNO 184	128	Cx. quinquefasciatus	Delano	27	BGSENT	8/10/2022	WNV
Kern	DLNO 190	137	Cx. quinquefasciatus	Delano	50	GRVD	8/12/2022	WNV
Kern	DLNO 2	133	Cx. quinquefasciatus	Delano	50	CO2	8/11/2022	WNV
Lake	LAKE 233	269	Cx. tarsalis	Clearlake Oaks	50	CO2	8/16/2022	WNV
Lake	LAKE 233	270	Cx. tarsalis	Clearlake Oaks	50	CO2	8/16/2022	WNV
Lake	LAKE 302	275	Cx. tarsalis	Clearlake Oaks	50	CO2	8/16/2022	WNV
Los Angeles	GRLA 2017	5712	Cx. quinquefasciatus	Studio City	50	GRVD	8/11/2022	WNV
Los Angeles	GRLA 2097	631	Cx. quinquefasciatus	La Mirada	50	GRVD	8/9/2022	WNV
Los Angeles	GRLA 2100	638	Cx. quinquefasciatus	Norwalk	50	GRVD	8/9/2022	WNV
Los Angeles	GRLA 2101	629	Cx. quinquefasciatus	Santa Fe Springs	17	GRVD	8/9/2022	WNV
Los Angeles	GRLA 2221	649	Cx. quinquefasciatus	Rowland Heights	44	GRVD	8/10/2022	WNV
Los Angeles	GRLA 2222	648	Cx. quinquefasciatus	Rowland Heights	16	GRVD	8/10/2022	WNV
Los Angeles	GRLA 2247	642	Cx. quinquefasciatus	Pico Rivera	50	GRVD	8/9/2022	WNV
Los Angeles	GRLA 2268	637	Cx. quinquefasciatus	Cerritos	50	GRVD	8/9/2022	WNV
Los Angeles	GRLA 2278	659	Cx. quinquefasciatus	Long Beach	50	GRVD	8/11/2022	WNV
Los Angeles	GRLA 2383	653	Cx. quinquefasciatus	Whittier	50	GRVD	8/10/2022	WNV
Los Angeles	GRLA 2414	5708	Cx. quinquefasciatus	Granada Hills	50	GRVD	8/10/2022	WNV
Los Angeles	GRLA 2419	5704	Cx. quinquefasciatus	Panorama City	50	GRVD	8/10/2022	WNV
Los Angeles	GRLA 2421	5706	Cx. quinquefasciatus	Panorama City	19	BGSENT	8/10/2022	WNV
Los Angeles	GRLA 2550	5729	Cx. quinquefasciatus	Mission Hills	39	GRVD	8/12/2022	WNV
Los Angeles	GRLA 2637	5705	Cx. quinquefasciatus	Van Nuys	45	GRVD	8/10/2022	WNV
Los Angeles	GRLA 2650	5703	Cx. quinquefasciatus	Van Nuys	50	GRVD	8/10/2022	WNV
Los Angeles	GRLA 2651	5701	Cx. quinquefasciatus	Encino	46	GRVD	8/10/2022	WNV
Los Angeles	GRLA 2655	5702	Cx. quinquefasciatus	Encino	50	GRVD	8/10/2022	WNV
Los Angeles	GRLA 2952	630	Cx. quinquefasciatus	South Whittier	31	GRVD	8/9/2022	WNV
Los Angeles	GRLA 2953	633	Cx. quinquefasciatus	Santa Fe Springs	50	GRVD	8/9/2022	WNV
Los Angeles	GRLA 2957	654	Cx. quinquefasciatus	Hawaiian Gardens	50	GRVD	8/11/2022	WNV
Los Angeles	GRLA 3034	5707	Cx. quinquefasciatus	North Hills	50	GRVD	8/10/2022	WNV
Los Angeles	GRLA 3038	5714	Cx. quinquefasciatus	Valley Village	50	GRVD	8/11/2022	WNV
Los Angeles	GRLA 3040	632	Cx. quinquefasciatus	La Mirada	47	GRVD	8/9/2022	WNV
Los Angeles	GRLA 3041	636	Cx. quinquefasciatus	Artesia	50	GRVD	8/9/2022	WNV
Los Angeles	GRLA 3044	644	Cx. quinquefasciatus	South El Monte	39	GRVD	8/10/2022	WNV
Los Angeles	GRLA 3045	652	Cx. quinquefasciatus	Whittier	37	GRVD	8/10/2022	WNV
Los Angeles	GRLA 3052	651	Cx. quinquefasciatus	La Habra Heights	50	GRVD	8/10/2022	WNV
Los Angeles	GRLA 3053	650	Cx. quinquefasciatus	Hacienda Heights	33	GRVD	8/10/2022	WNV
Los Angeles	GRLA 3060	634	Cx. quinquefasciatus	Norwalk	45	GRVD	8/9/2022	WNV
Los Angeles	GRLA 3069	5715	Cx. quinquefasciatus	Valley Village	50	GRVD	8/11/2022	WNV
Los Angeles	GRLA 3076	5718	Cx. quinquefasciatus	Valley Glen	50	GRVD	8/11/2022	WNV
Los Angeles	GRLA 3088	5727	Cx. quinquefasciatus	Pacoima	31	GRVD	8/12/2022	WNV
Los Angeles	GRLA 3097	5728	Cx. quinquefasciatus	Arleta	50	GRVD	8/12/2022	WNV
Los Angeles	LACW 1009	508	Cx. quinquefasciatus	Los Angeles	28	GRVD	8/9/2022	WNV
Los Angeles	LACW 1110	519	Cx. erythrothorax	Playa Del Rey	30	CO2	8/9/2022	WNV

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Los Angeles	SGVA 1077	793	Cx. quinquefasciatus	La Puente	50	GRVD	8/16/2022	WNV
Los Angeles	SGVA 1248	818	Cx. quinquefasciatus	Pasadena	50	GRVD	8/18/2022	WNV
Los Angeles	SGVA 286	794	Cx. quinquefasciatus	Baldwin Park	45	GRVD	8/16/2022	WNV
Los Angeles	SGVA 313	813	Cx. quinquefasciatus	Pasadena	50	GRVD	8/16/2022	WNV
Los Angeles	SGVA 385	788	Cx. quinquefasciatus	Arcadia	17	GRVD	8/16/2022	WNV
Los Angeles	SGVA 4	786	Cx. quinquefasciatus	Arcadia	39	GRVD	8/16/2022	WNV
Los Angeles	SGVA 450	797	Cx. quinquefasciatus	La Puente	50	GRVD	8/16/2022	WNV
Los Angeles	SGVA 466	819	Cx. quinquefasciatus	Pasadena	33	GRVD	8/16/2022	WNV
Los Angeles	SGVA 473	815	Cx. quinquefasciatus	San Gabriel	27	GRVD	8/16/2022	WNV
Los Angeles	SGVA 474	827	Cx. quinquefasciatus	San Gabriel	32	GRVD	8/18/2022	WNV
Los Angeles	SGVA 482	783	Cx. quinquefasciatus	Duarte	31	GRVD	8/16/2022	WNV
Los Angeles	SGVA 491	785	Cx. quinquefasciatus	El Monte	36	GRVD	8/16/2022	WNV
Los Angeles	SGVA 64	812	Cx. quinquefasciatus	West Covina	47	GRVD	8/16/2022	WNV
Los Angeles	SGVA 688	808	Cx. quinquefasciatus	Alhambra	16	GRVD	8/16/2022	WNV
Los Angeles	SGVA 875	817	Cx. quinquefasciatus	Walnut	45	GRVD	8/16/2022	WNV
Los Angeles	SGVA 898	806	Cx. quinquefasciatus	San Gabriel	16	GRVD	8/16/2022	WNV
Los Angeles	SGVA 898	831	Cx. quinquefasciatus	San Gabriel	50	GRVD	8/18/2022	WNV
Los Angeles	SGVA 898	835	Cx. quinquefasciatus	San Gabriel	43	GRVD	8/18/2022	WNV
Los Angeles	SGVA 953	784	Cx. quinquefasciatus	Covina	50	GRVD	8/16/2022	WNV
Los Angeles	SGVA 961	828	Cx. quinquefasciatus	Alhambra	49	GRVD	8/18/2022	WNV
Los Angeles	SGVA 996	805	Cx. quinquefasciatus	South Pasadena	50	GRVD	8/16/2022	WNV
Madera	MADR 1057	450	Cx. tarsalis	Chowchilla	36	CO2	8/9/2022	WNV
Madera	MADR 195	490	Cx. tarsalis	Madera	50	CO2	8/12/2022	WNV
Madera	MADR 195	491	Cx. tarsalis	Madera	50	CO2	8/12/2022	WNV
Madera	MADR 259	477	Cx. quinquefasciatus	Madera	50	CO2	8/11/2022	WNV
Madera	MADR 259	478	Cx. tarsalis	Madera	50	CO2	8/11/2022	WNV
Madera	MADR 298	447	Cx. quinquefasciatus	Chowchilla	50	CO2	8/9/2022	WNV
Madera	MADR 299	456	Cx. quinquefasciatus	Chowchilla	50	CO2	8/9/2022	WNV
Madera	MADR 300	452	Cx. tarsalis	Chowchilla	27	CO2	8/9/2022	WNV
Madera	MADR 3334	469	Cx. tarsalis	Madera	50	CO2	8/11/2022	WNV
Madera	MADR 3334	470	Cx. quinquefasciatus	Madera	19	CO2	8/11/2022	WNV
Madera	MADR 3334	480	Cx. tarsalis	Madera	50	CO2	8/11/2022	WNV
Madera	MADR 581	463	Aedes nigromaculis	Madera	50	CO2	8/10/2022	WNV
Madera	MADR 688	465	Cx. tarsalis	Madera	50	CO2	8/10/2022	WNV
Madera	MADR 690	482	Cx. tarsalis	Madera	50	CO2	8/11/2022	WNV
Merced	MERC 433765	201	Cx. tarsalis	Gustine	50	BGSENT	8/17/2022	WNV
Orange	ORCO 1000	2576	Culex quinquefasciatus	Placentia	19	CO2	8/4/2022	WNV
Orange	ORCO 215	2570	Culex quinquefasciatus	La Habra	33	CO2	8/4/2022	WNV
Orange	ORCO 215	2571	Culex quinquefasciatus	La Habra	33	CO2	8/4/2022	WNV
Orange	ORCO 215	2976	Cx. quinquefasciatus	La Habra	19	CO2	8/18/2022	WNV
Orange	ORCO 217	2578	Culex quinquefasciatus	Santa Ana	32	CO2	8/4/2022	WNV
Orange	ORCO 268	2569	Culex quinquefasciatus	Brea	18	CO2	8/4/2022	WNV
Orange	ORCO 328	2917	Cx. quinquefasciatus	Fullerton	16	GRVD	8/16/2022	WNV
Orange	ORCO 329	2504	Culex quinquefasciatus	Fullerton	51	GRVD	8/3/2022	WNV
Placer	PLCR 1113	1290	Cx. tarsalis	Pleasant Grove	50	CO2	8/16/2022	WNV
Placer	PLCR 1113	1293	Cx. tarsalis	Pleasant Grove	50	CO2	8/16/2022	WNV
Placer	PLCR 1113	1294	Cx. tarsalis	Pleasant Grove	22	CO2	8/16/2022	WNV
Placer	PLCR 1114	1262	Cx. tarsalis	Lincoln	50	CO2	8/16/2022	WNV
Placer	PLCR 1114	1263	Cx. tarsalis	Lincoln	50	CO2	8/16/2022	WNV
Placer	PLCR 139	1249	Cx. tarsalis	Roseville	50	CO2	8/16/2022	WNV
Placer	PLCR 191218	1273	Cx. tarsalis	Roseville	50	CO2	8/16/2022	WNV
Placer	PLCR 191218	1274	Cx. tarsalis	Roseville	50	CO2	8/16/2022	WNV
Placer	PLCR 191218	1276	Cx. pipiens	Roseville	2	CO2	8/16/2022	WNV
Placer	PLCR 194232	1251	Cx. tarsalis	Pleasant Grove	50	CO2	8/16/2022	WNV
Placer	PLCR 197802	1269	Cx. tarsalis	Elverta	50	CO2	8/16/2022	WNV
Placer	PLCR 197802	1272	Cx. tarsalis	Elverta	21	CO2	8/16/2022	WNV
Placer	PLCR 25	1279	Cx. tarsalis	Lincoln	50	CO2	8/16/2022	WNV
Placer	PLCR 25	1280	Cx. tarsalis	Lincoln	50	CO2	8/16/2022	WNV
Placer	PLCR 670	1308	Cx. tarsalis	Loomis	1	CO2	8/17/2022	WNV
Placer	PLCR 678519	1285	Cx. tarsalis	Elverta	50	CO2	8/16/2022	WNV
Placer	PLCR 86	1303	Cx. tarsalis	Rocklin	44	CO2	8/17/2022	WNV
Placer	PLCR 95	1255	Cx. tarsalis	Lincoln	12	CO2	8/16/2022	WNV
Riverside	COAV 0	4423	Cx. tarsalis	Indio	22	CO2	8/18/2022	WNV
Riverside	COAV 0	4425	Cx. tarsalis	Indio	50	CO2	8/18/2022	WNV
Riverside	COAV 131	4360	Culex tarsalis	Oasis	17	CO2	8/16/2022	SLEV
Riverside	COAV 131	4360	Cx. tarsalis	Oasis	17	CO2	8/16/2022	WNV
Riverside	COAV 132	4398	Cx. tarsalis	Oasis	8	CO2	8/16/2022	WNV
Riverside	COAV 5	4399	Culex tarsalis	Oasis	46	CO2	8/16/2022	SLEV
Riverside	COAV 5	4399	Cx. tarsalis	Oasis	46	CO2	8/16/2022	WNV

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Riverside	COAV 536	4296	Cx. tarsalis	Thermal	23	CO2	8/16/2022	WNV
Riverside	COAV 536	4420	Cx. tarsalis	Thermal	42	CO2	8/18/2022	WNV
Riverside	COAV 55	4439	Culex tarsalis	Mecca	40	CO2	8/16/2022	SLEV
Sacramento	SAYO 204051	2689	Culex tarsalis	Citrus Heights	5	CO2	7/22/2022	WNV
Sacramento	SAYO 212033	3663	Cx. tarsalis	Sacramento	12	CO2	8/16/2022	WNV
Sacramento	SAYO 214020	3491	Cx. pipiens	Rancho Cordova	7	GRVD	8/12/2022	WNV
Sacramento	SAYO 254021	3472	Cx. pipiens	Galt	14	CO2	8/12/2022	WNV
San Bernardino	WVAL 2003	1225	Cx. tarsalis	Chino	9	CO2	8/17/2022	WNV
San Bernardino	WVAL 318	1227	Cx. quinquefasciatus	Chino	40	BGSENT	8/17/2022	WNV
San Bernardino	WVAL 318	1228	Cx. quinquefasciatus	Chino	29	BGSENT	8/17/2022	WNV
San Bernardino	WVAL 4637	1202	Cx. quinquefasciatus	Rancho Cucamonga	5	GRVD	8/16/2022	WNV
San Bernardino	WVAL 5004	1207	Cx. quinquefasciatus	Rancho Cucamonga	22	GRVD	8/16/2022	WNV
San Bernardino	WVAL 5005	1203	Cx. quinquefasciatus	Rancho Cucamonga	5	GRVD	8/16/2022	WNV
San Bernardino	WVAL 5443	1226	Cx. quinquefasciatus	Chino	23	BGSENT	8/17/2022	WNV
San Bernardino	WVAL 5443	8042	Aedes aegypti	Chino	13	BGSENT	8/17/2022	WNV
San Bernardino	WVAL 6015	1197	Cx. quinquefasciatus	Ontario	20	GRVD	8/16/2022	WNV
San Bernardino	WVAL 9002	1208	Cx. quinquefasciatus	Upland	5	CO2	8/16/2022	WNV
San Joaquin	SJCM 8018	1474	Cx. tarsalis	Stockton	50	CO2	8/16/2022	WNV
San Joaquin	SJCM 8018	1475	Cx. tarsalis	Stockton	22	CO2	8/16/2022	WNV
San Joaquin	SJCM 8025	1501	Cx. tarsalis	Stockton	37	CO2	8/16/2022	WNV
San Joaquin	SJCM 8027	1507	Cx. tarsalis	Stockton	50	CO2	8/16/2022	WNV
San Joaquin	SJCM 8027	1508	Cx. tarsalis	Stockton	50	CO2	8/16/2022	WNV
San Joaquin	SJCM 8084	1561	Cx. tarsalis	Stockton	7	CO2	8/18/2022	WNV
San Joaquin	SJCM 8084	1562	Cx. pipiens	Stockton	9	CO2	8/18/2022	WNV
San Joaquin	SJCM 8204	1497	Cx. tarsalis	Stockton	38	CO2	8/16/2022	WNV
San Joaquin	SJCM 8206	1547	Cx. tarsalis	Lodi	50	CO2	8/16/2022	WNV
San Joaquin	SJCM 8206	1548	Cx. tarsalis	Lodi	50	CO2	8/16/2022	WNV
San Joaquin	SJCM 8206	1554	Cx. pipiens	Lodi	50	CO2	8/16/2022	WNV
San Joaquin	SJCM 8206	1555	Cx. pipiens	Lodi	50	CO2	8/16/2022	WNV
San Joaquin	SJCM 8209	1584	Cx. tarsalis	Lodi	53	CO2	8/18/2022	WNV
San Joaquin	SJCM 8253	1573	Cx. tarsalis	Linden	24	CO2	8/18/2022	WNV
Santa Clara	STCL 31685	2801	Cx. pipiens	Sunnyvale	17	GRVD	8/16/2022	WNV
Shasta	SHAS 10070	389	Cx. tarsalis	Shasta Lake City	37	CO2	8/16/2022	WNV
Shasta	SHAS 10070	390	Cx. pipiens	Shasta Lake City	46	CO2	8/16/2022	WNV
Shasta	SHAS 110	363	Cx. pipiens	Redding	17	CO2	8/11/2022	WNV
Shasta	SHAS 20040	384	Cx. tarsalis	Redding	30	CO2	8/16/2022	WNV
Shasta	SHAS 26	407	Cx. pipiens	Anderson	40	CO2	8/17/2022	WNV
Shasta	SHAS 349	362	Cx. tarsalis	Redding	12	CO2	8/11/2022	WNV
Shasta	SHAS 375	387	Cx. tarsalis	Bella Vista	31	CO2	8/16/2022	WNV
Shasta	SHAS 80	375	Cx. pipiens	Anderson	38	GRVD	8/15/2022	WNV
Stanislaus	TRLK 1509	506	Cx. pipiens	Turlock	45	CO2	8/16/2022	WNV
Stanislaus	TRLK 1673	491	Cx. pipiens	Patterson	50	CO2	8/16/2022	WNV
Stanislaus	TRLK 18280	460	Cx. pipiens	Turlock	50	CO2	8/11/2022	WNV
Stanislaus	TRLK 18280	462	Cx. tarsalis	Turlock	40	CO2	8/11/2022	WNV
Stanislaus	TRLK 2	518	Cx. tarsalis	Vernalis	50	CO2	8/16/2022	WNV
Stanislaus	TRLK 9768	509	Cx. pipiens	Modesto	29	CO2	8/16/2022	WNV
Sutter	SUYA 14	390	Cx. tarsalis	Sutter	48	REST	8/15/2022	WNV
Sutter	SUYA 15	395	Cx. tarsalis	Robbins	34	REST	8/16/2022	WNV
Sutter	SUYA 24	391	Cx. tarsalis	Yuba City	32	REST	8/15/2022	WNV
Sutter	SUYA 63	388	Cx. tarsalis	Live Oak	15	REST	8/15/2022	WNV
Sutter	SUYA 71	392	Cx. tarsalis	Meridian	50	REST	8/16/2022	WNV
Sutter	SUYA 71	393	Cx. tarsalis	Meridian	50	REST	8/16/2022	WNV
Sutter	SUYA 84	371	Cx. pipiens	Yuba City	39	CO2	8/16/2022	WNV
Sutter	SUYA 84	387	Cx. tarsalis	Yuba City	8	REST	8/15/2022	WNV
Tulare	DLNO 145	131	Cx. tarsalis	Earlimart	50	CO2	8/11/2022	WNV
Tulare	DLNO 8	132	Cx. quinquefasciatus	Delano	50	CO2	8/11/2022	WNV
Tulare	DLTA 64071	2327	Cx. quinquefasciatus	Dinuba	49	BGSENT	8/9/2022	WNV
Tulare	DLTA 64074	2551	Cx. quinquefasciatus	Dinuba	49	GRVD	8/12/2022	WNV
Tulare	DLTA 6417	2459	Cx. quinquefasciatus	Dinuba	10	GRVD	8/11/2022	WNV
Tulare	DLTA 6417	2480	Cx. quinquefasciatus	Dinuba	49	BGSENT	8/11/2022	WNV
Tulare	DLTA 6417	2482	Cx. stigmatosoma	Dinuba	29	BGSENT	8/11/2022	WNV
Tulare	DLTA 6420	2552	Cx. quinquefasciatus	Dinuba	27	BGSENT	8/12/2022	WNV
Tulare	DLTA 6420	2566	Cx. quinquefasciatus	Dinuba	47	BGSENT	8/12/2022	WNV
Tulare	DLTA 6420	2567	Cx. tarsalis	Dinuba	13	BGSENT	8/12/2022	WNV
Tulare	DLTA 6420	2568	Cx. stigmatosoma	Dinuba	44	BGSENT	8/12/2022	WNV
Tulare	DLTA 65311	2583	Cx. quinquefasciatus	Cutler	50	CO2	8/16/2022	WNV
Tulare	DLTA 65311	2584	Cx. quinquefasciatus	Cutler	16	CO2	8/16/2022	WNV
Tulare	DLTA 751732	2414	Cx. quinquefasciatus	Yetttem	50	CO2	8/10/2022	WNV
Tulare	DLTA 751732	2416	Cx. quinquefasciatus	Patterson Tract	50	CO2	8/10/2022	WNV

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Tulare	DLTA 841543	2504	Cx. quinquefasciatus	Visalia	50	CO2	8/11/2022	WNV
Tulare	DLTA 841543	2505	Cx. quinquefasciatus	Visalia	50	CO2	8/11/2022	WNV
Tulare	DLTA 841543	2506	Cx. quinquefasciatus	Visalia	50	CO2	8/11/2022	WNV
Tulare	DLTA 841543	2507	Cx. quinquefasciatus	Visalia	50	CO2	8/11/2022	WNV
Tulare	DLTA 841543	2508	Cx. quinquefasciatus	Visalia	50	CO2	8/11/2022	WNV
Tulare	DLTA 841543	2509	Cx. quinquefasciatus	Visalia	22	CO2	8/11/2022	WNV
Tulare	DLTA 841611	2476	Cx. quinquefasciatus	Visalia	50	CO2	8/11/2022	WNV
Tulare	DLTA 841611	2477	Cx. quinquefasciatus	Visalia	23	CO2	8/11/2022	WNV
Tulare	DLTA 841621	2545	Cx. quinquefasciatus	Visalia	50	CO2	8/12/2022	WNV
Tulare	DLTA 841621	2546	Cx. quinquefasciatus	Visalia	50	CO2	8/12/2022	WNV
Tulare	DLTA 841621	2547	Cx. quinquefasciatus	Visalia	50	CO2	8/12/2022	WNV
Tulare	DLTA 841621	2548	Cx. quinquefasciatus	Visalia	50	CO2	8/12/2022	WNV
Tulare	DLTA 841621	2549	Cx. quinquefasciatus	Visalia	50	CO2	8/12/2022	WNV
Tulare	DLTA 841631	2485	Cx. quinquefasciatus	Visalia	50	CO2	8/11/2022	WNV
Tulare	DLTA 841631	2486	Cx. quinquefasciatus	Visalia	50	CO2	8/11/2022	WNV
Tulare	DLTA 841631	2487	Cx. quinquefasciatus	Visalia	50	CO2	8/11/2022	WNV
Tulare	DLTA 841631	2488	Cx. quinquefasciatus	Visalia	50	CO2	8/11/2022	WNV
Tulare	DLTA 841631	2489	Cx. quinquefasciatus	Visalia	50	CO2	8/11/2022	WNV
Tulare	DLTA 841631	2490	Cx. quinquefasciatus	Visalia	50	CO2	8/11/2022	WNV
Tulare	DLTA 841631	2491	Cx. quinquefasciatus	Visalia	21	CO2	8/11/2022	WNV
Tulare	DLTA 841632	2492	Cx. quinquefasciatus	Visalia	50	CO2	8/11/2022	WNV
Tulare	DLTA 841632	2493	Cx. quinquefasciatus	Visalia	50	CO2	8/11/2022	WNV
Tulare	DLTA 841632	2494	Cx. quinquefasciatus	Visalia	17	CO2	8/11/2022	WNV
Tulare	DLTA 841642	2483	Cx. quinquefasciatus	Visalia	50	CO2	8/11/2022	WNV
Tulare	DLTA 841642	2484	Cx. quinquefasciatus	Visalia	33	CO2	8/11/2022	WNV
Tulare	DLTA 8422	2579	Cx. quinquefasciatus	Goshen	11	GRVD	8/16/2022	WNV
Tulare	DLTA 84221	2577	Cx. quinquefasciatus	Visalia	50	BGSENT	8/16/2022	WNV
Tulare	DLTA 84223	2472	Cx. quinquefasciatus	Visalia	50	BGSENT	8/11/2022	WNV
Tulare	DLTA 8423	2569	Cx. quinquefasciatus	Visalia	50	BGSENT	8/12/2022	WNV
Tulare	DLTA 8426	2590	Cx. quinquefasciatus	Visalia	17	BGSENT	8/16/2022	WNV
Tulare	DLTA 8527	2601	Cx. quinquefasciatus	Visalia	13	GRVD	8/17/2022	WNV
Tulare	DLTA 8528	2538	Cx. quinquefasciatus	Visalia	21	BGSENT	8/12/2022	WNV
Tulare	DLTA 8533	2561	Cx. quinquefasciatus	Visalia	15	BGSENT	8/12/2022	WNV
Tulare	DLTA 9402	2582	Cx. quinquefasciatus	Visalia	11	BGSENT	8/16/2022	WNV
Tulare	DLTA 94032	2613	Cx. quinquefasciatus	Visalia	10	BGSENT	8/17/2022	WNV
Tulare	DLTA 94122	2602	Cx. quinquefasciatus	Visalia	50	BGSENT	8/17/2022	WNV
Tulare	TLRE 192434	67	Cx. quinquefasciatus	Tulare	21	GRVD	8/17/2022	WNV
Tulare	TLRE 192435	45	Cx. quinquefasciatus	Tulare	18	GRVD	8/4/2022	WNV
Tulare	TLRE 192435	46	Culex quinquefasciatus	Tulare	47	GRVD	8/4/2022	SLEV
Tulare	TLRE 192435	46	Cx. quinquefasciatus	Tulare	47	GRVD	8/4/2022	WNV
Tulare	TLRE 192435	54	Cx. quinquefasciatus	Tulare	24	GRVD	8/10/2022	WNV
Tulare	TLRE 192436	59	Cx. quinquefasciatus	Tulare	39	GRVD	8/11/2022	WNV
Tulare	TLRE 192436	68	Cx. quinquefasciatus	Tulare	17	GRVD	8/17/2022	WNV
Tulare	TLRE 202401	44	Cx. quinquefasciatus	Tulare	24	GRVD	8/4/2022	WNV
Tulare	TLRE 202401	58	Cx. quinquefasciatus	Tulare	38	GRVD	8/11/2022	WNV
Tulare	TLRE 202403	53	Cx. quinquefasciatus	Tulare	14	GRVD	8/5/2022	WNV
Tulare	TLRE 202404	48	Cx. quinquefasciatus	Tulare	48	GRVD	8/4/2022	WNV
Tulare	TLRE 202409	69	Cx. quinquefasciatus	Tulare	41	GRVD	8/17/2022	WNV
Tulare	TLRE 202412	57	Cx. quinquefasciatus	Tulare	50	GRVD	8/11/2022	WNV
Tulare	TLRE 202413	42	Cx. quinquefasciatus	Tulare	41	GRVD	8/4/2022	WNV
Tulare	TLRE 202415	70	Culex quinquefasciatus	Tulare	21	GRVD	8/17/2022	SLEV
Tulare	TLRE 202415	70	Cx. quinquefasciatus	Tulare	21	GRVD	8/17/2022	WNV
Yolo	SAYO 103007	3644	Cx. tarsalis	Dunnigan	50	CO2	8/16/2022	WNV
Yolo	SAYO 114001	3628	Cx. pipiens	Zamora	4	GRVD	8/16/2022	WNV
Yolo	SAYO 115002	3614	Cx. tarsalis	Knights Landing	50	CO2	8/16/2022	WNV
Yolo	SAYO 115002	3616	Cx. pipiens	Knights Landing	1	GRVD	8/16/2022	WNV
Yolo	SAYO 115008	3626	Cx. tarsalis	Woodland	50	CO2	8/16/2022	WNV
Yolo	SAYO 116003	3604	Cx. tarsalis	Knights Landing	50	CO2	8/16/2022	WNV
Yolo	SAYO 125021	3541	Cx. pipiens	Woodland	5	CO2	8/12/2022	WNV
Yolo	SAYO 125021	3542	Cx. tarsalis	Woodland	14	CO2	8/12/2022	WNV
Yolo	SAYO 135019	3658	Cx. tarsalis	Davis	25	CO2	8/16/2022	WNV
Yolo	SAYO 135020	3538	Cx. pipiens	woodland	12	GRVD	8/12/2022	WNV
Yolo	SAYO 145005	3676	Cx. tarsalis	Davis	50	CO2	8/16/2022	WNV
Yolo	SAYO 145005	3677	Cx. tarsalis	Davis	50	CO2	8/16/2022	WNV
Yolo	SAYO 145009	3654	Cx. tarsalis	Davis	40	CO2	8/16/2022	WNV
Yolo	SAYO 145009	3655	Cx. pipiens	Davis	7	GRVD	8/16/2022	WNV
Yolo	SAYO 398480	3554	Cx. tarsalis	Woodland	3	GRVD	8/12/2022	WNV
Yuba	SUYA 40	385	Cx. tarsalis	Linda	50	CO2	8/17/2022	WNV

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Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05
Butte	BUCO 000003	Oroville	8/9/2022	WNV	1614	1615	1616		
Butte	BUCO 000004	Gridley	8/9/2022	WNV	1619	1620	1621	1622	
Butte	BUCO 000006	Chico	8/9/2022	WNV	1631	1632	1633	1634	1636
Los Angeles	LACW 001010	Los Angeles	8/2/2022	WNV	1717				
Merced	MERC 000006	Merced	8/12/2022	WNV	1159	1160			
Merced	MERC 000501	Merced	8/12/2022	WNV	1166				
Sutter	SUYA 000014	Sutter	8/11/2022	WNV	1429	1434			
Tehama	TEHA 000001	Red Bluff	8/9/2022	WNV	1480				
Yuba	SUYA 000007	Marysville	8/11/2022	WNV	1421				
Yuba	SUYA 000010	Olivehurst	8/11/2022	WNV	1409	1410	1412		

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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, <https://westnile.ca.gov>, or the California Vector-Borne Disease Surveillance System website, <https://maps.vectorsurv.org>.

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