

California Arbovirus Surveillance Bulletin #18

Week 31 Friday, August 5, 2022



WEEKLY UPDATE

Humans

West Nile virus

No human cases of West Nile virus (WNV) illness were reported this week. In 2022, a total of 7 WNV human cases have been reported from 4 counties: Kern (2), Kings (1), Stanislaus (3), and Yolo (1). Of the 7 cases, 5 (71%) had neuroinvasive illness. The median age of case patients was 56 years and 4 (57%) of the case patients were male. The dates of symptom onset ranged from May 8 to June 29. In addition to the 7 WNV cases, 2 asymptomatic WNV-positive blood donors have been reported from 2 counties: Fresno (1), and Kern (1). At this time last year, 8 WNV cases had been reported from 7 counties.

St. Louis encephalitis virus

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

Dead Birds

A total of 11 WNV positive dead birds were reported this week from 7 counties: Butte (1), Los Angeles (4), Sacramento (1), San Bernardino (1), Santa Clara (1), Solano (1), and Yolo (2). **This is the first positive dead bird reported from San Bernardino County this year.** In 2022, 60 WNV positive dead birds have been reported from 13 counties. At this time last year, 109 WNV positive dead birds had been reported from 10 counties.

Mosquito Pools

West Nile virus

A total of 263 WNV positive mosquito pools were reported this week from 18 counties: Butte (3), Fresno (24), Kern (9), Kings (14), Los Angeles (41), Madera (10), Merced (1), Riverside (4), Sacramento (4), San Bernardino (4), San Joaquin (26), Santa Clara (2), Shasta (3), Stanislaus (7), Sutter (2), Tulare (105), Yolo (2) and Yuba (2) counties. In 2022, 965 WNV positive mosquito pools have been reported from 22 counties. At this time last year, 770 WNV positive mosquito pools had been reported from 23 counties.

St. Louis encephalitis virus

A total of 3 SLEV positive mosquito pools were reported this week from 2 counties: Kings (2), and Riverside (1). In 2022, 12 SLEV positive mosquito pools from 4 counties have been reported: Imperial (2), Kings (4), Riverside (5), and Tulare (1). At this time last year, 9 SLEV positive mosquito pools had been reported from 3 counties.

Sentinel Chickens

A total of 15 WNV positive chickens were reported this week from 4 counties: Butte (5), Merced (2), Sutter (2), and Tulare (6). **These are the first WNV positive sentinel chickens detected for Butte, Sutter, and Tulare counties.** In 2022, 17 WNV positive chickens have been reported from 5 counties. At this time last year, 10 WNV positive chickens had been reported from 3 counties.

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2021 & 2022 YTD West Nile Virus Comparisons		
	2021	2022
Total No. Dead Bird Reports	3,538	3,066
No. Positive Counties	25	23
No. Human Cases	8	7
No. Positive Dead Birds / No. Tested	109 / 1,069	60 / 817
No. Positive Mosquito Pools / No. Tested	770 / 19,719	965 / 18,736
No. Seroconversions / No. Tested	10 / 3,258	17 / 2,815

YTD WNV Activity by Element and County, 2022					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte			2	9	5
Contra Costa			1	1	
Fresno			2	163	
Kern	2	2		49	
Kings	1			44	
Los Angeles			16	98	
Madera				16	
Merced			1	2	3
Nevada			1		
Orange				14	
Placer				20	
Riverside				46	
Sacramento			20	12	
San Bernardino			1	21	
San Joaquin				79	
Santa Clara			5	11	
Shasta				12	
Solano			4	6	
Stanislaus	3			9	
Sutter			2	18	2
Tulare			1	319	6
Yolo	1		4	10	
Yuba				6	1
Totals	7	2	60	965	17

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TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	0	0	0
	YTD	7	2	0

Positive / Total Tested							
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA

Dead Birds		Week	11 / 72
		YTD	60 / 817

Chicken Sera		Week	15 / 292	0 / 292	0 / 292
		YTD	17 / 2,815	0 / 2,815	0 / 2,815

Mosquito Pools		Week	263 / 1,421	3 / 1,399	0 / 1,396	0 / 0	0 / 0	0 / 0
		YTD	965 / 18,736	12 / 17,981	0 / 17,939	0 / 280	0 / 280	0 / 280

POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Butte	Butte Co MVCD	Oroville	95965	California Scrub-Jay	7/26/2022	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Bellflower	90706	Cooper's Hawk	7/22/2022	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	San Marino	91108	American Crow	7/29/2022	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	San Marino	91108	Crow or Raven	7/28/2022	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Glendale	91203	Great Horned Owl	7/26/2022	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	California Scrub-Jay	8/1/2022	WNV
San Bernardino	West Valley MVCD	Rancho Cucamonga	91730	Brewer's Blackbird	8/4/2022	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	8/1/2022	WNV
Solano	Solano Co MAD	Vacaville	95688	California Scrub-Jay	7/31/2022	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	7/30/2022	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	7/30/2022	WNV

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO 141	281	Cx. tarsalis	Oroville	50	CO2	7/27/2022	WNV
Butte	BUCO 33	288	Cx. tarsalis	Chico	50	CO2	7/26/2022	WNV
Butte	BUCO 7	293	Cx. tarsalis	Chico	50	CO2	7/25/2022	WNV
Fresno	CNSL 1070	577	Cx. quinquefasciatus	Fresno	50	GRVD	7/26/2022	WNV
Fresno	CNSL 1399	86	Cx. quinquefasciatus	Clovis	50	GRVD	7/27/2022	WNV
Fresno	CNSL 1548	91	Cx. quinquefasciatus	Clovis	50	GRVD	7/29/2022	WNV
Fresno	CNSL 1660	584	Cx. quinquefasciatus	Clovis	44	GRVD	7/27/2022	WNV
Fresno	CNSL 1865	85	Cx. quinquefasciatus	Clovis	50	GRVD	7/26/2022	WNV
Fresno	CNSL 1957	84	Cx. quinquefasciatus	Fresno	50	GRVD	7/26/2022	WNV
Fresno	CNSL 1987	87	Cx. quinquefasciatus	Clovis	50	GRVD	7/27/2022	WNV
Fresno	CNSL 3245	589	Cx. quinquefasciatus	Reedley	40	BGSENT	7/28/2022	WNV

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Fresno	CNSL 3435	93	Cx. quinquefasciatus	Sanger	50	GRVD	7/29/2022	WNV
Fresno	CNSL 4024	90	Cx. quinquefasciatus	Selma	28	GRVD	7/29/2022	WNV
Fresno	CNSL 5138	88	Cx. quinquefasciatus	Kingsburg	42	GRVD	7/28/2022	WNV
Fresno	CNSL 6133	583	Cx. quinquefasciatus	Riverdale	15	GRVD	7/26/2022	WNV
Fresno	CNSL 9042	582	Cx. quinquefasciatus	Clovis	50	GRVD	7/26/2022	WNV
Fresno	FRNO 112	607	Cx. quinquefasciatus	Fresno	22	GRVD	8/2/2022	WNV
Fresno	FRNO 171	615	Cx. quinquefasciatus	Fresno	50	GRVD	8/3/2022	WNV
Fresno	FRNO 187	605	Cx. quinquefasciatus	Biola	40	GRVD	8/2/2022	WNV
Fresno	FRNO 19	614	Cx. quinquefasciatus	Fresno	50	GRVD	8/3/2022	WNV
Fresno	FRNO 214	609	Cx. quinquefasciatus	Kerman	44	GRVD	8/2/2022	WNV
Fresno	FRNO 257	596	Cx. quinquefasciatus	Fresno	50	GRVD	7/28/2022	WNV
Fresno	FRNO 8	602	Cx. quinquefasciatus	Fresno	37	GRVD	8/2/2022	WNV
Fresno	FRNO 8007	589	Cx. quinquefasciatus	Fresno	50	GRVD	7/28/2022	WNV
Fresno	FRNO 8007	590	Cx. quinquefasciatus	Fresno	25	GRVD	7/28/2022	WNV
Fresno	FRNO 8008	606	Cx. quinquefasciatus	Biola	50	GRVD	8/2/2022	WNV
Fresno	FRWS 100006	212	Cx. tarsalis	Dos Palos	50	CO2	8/2/2022	WNV
Kern	KERN 110	386	Cx. quinquefasciatus	Bakersfield	50	CO2	7/26/2022	WNV
Kern	KERN 110	387	Cx. tarsalis	Bakersfield	49	CO2	7/26/2022	WNV
Kern	KERN 111	385	Cx. quinquefasciatus	Arvin	35	CO2	7/26/2022	WNV
Kern	KERN 115	390	Cx. tarsalis	Bakersfield	50	CO2	7/28/2022	WNV
Kern	KERN 118	380	Cx. tarsalis	Buttonwillow	21	CO2	7/26/2022	WNV
Kern	KERN 2040	377	Cx. quinquefasciatus	Arvin	44	GRVD	7/26/2022	WNV
Kern	KERN 29	394	Cx. quinquefasciatus	Lamont	34	CO2	7/29/2022	WNV
Kern	KERN 3026	384	Cx. quinquefasciatus	Arvin	50	CO2	7/26/2022	WNV
Kern	KERN 31	381	Cx. tarsalis	Arvin	22	CO2	7/26/2022	WNV
Kings	KNGS 3018	121	Cx. tarsalis	Lemoore	50	CO2	7/27/2022	WNV
Kings	KNGS 3018	122	Cx. tarsalis	Lemoore	50	CO2	7/27/2022	WNV
Kings	KNGS 3018	124	Cx. pipiens	Lemoore	13	CO2	7/27/2022	WNV
Kings	KNGS 3026	129	Cx. tarsalis	Hanford	44	CO2	7/28/2022	WNV
Kings	KNGS 3100	128	Cx. tarsalis	Hanford	22	CO2	7/28/2022	WNV
Kings	KNGS 3126	133	Cx. tarsalis	Corcoran	50	CO2	7/29/2022	WNV
Kings	KNGS 3126	134	Cx. tarsalis	Corcoran	50	CO2	7/29/2022	WNV
Kings	KNGS 3130	111	Cx. tarsalis	Hardwick	50	CO2	7/26/2022	WNV
Kings	KNGS 3130	112	Cx. tarsalis	Hardwick	50	CO2	7/26/2022	WNV
Kings	KNGS 3130	113	Cx. tarsalis	Hardwick	50	CO2	7/26/2022	WNV
Kings	KNGS 3132	117	Cx. tarsalis	Armona	36	CO2	7/27/2022	WNV
Kings	KNGS 3134	126	Cx. tarsalis	Lemoore	50	CO2	7/27/2022	WNV
Kings	KNGS 3134	127	Cx. tarsalis	Lemoore	32	CO2	7/27/2022	WNV
Kings	KNGS 5519	132	Cx. tarsalis	Hanford	15	CO2	7/29/2022	WNV
Los Angeles	GRLA 2023	5646	Cx. quinquefasciatus	Reseda	49	GRVD	7/28/2022	WNV
Los Angeles	GRLA 2031	5648	Cx. quinquefasciatus	Northridge	20	GRVD	7/28/2022	WNV
Los Angeles	GRLA 2032	5647	Cx. quinquefasciatus	Northridge	41	GRVD	7/28/2022	WNV
Los Angeles	GRLA 2034	5642	Cx. quinquefasciatus	Tarzana	36	GRVD	7/28/2022	WNV
Los Angeles	GRLA 2101	560	Cx. quinquefasciatus	Santa Fe Springs	28	GRVD	7/26/2022	WNV
Los Angeles	GRLA 2222	578	Cx. quinquefasciatus	Rowland Heights	30	GRVD	7/27/2022	WNV
Los Angeles	GRLA 2268	568	Cx. quinquefasciatus	Cerritos	50	GRVD	7/26/2022	WNV
Los Angeles	GRLA 2278	600	Cx. quinquefasciatus	Long Beach	50	GRVD	7/29/2022	WNV
Los Angeles	GRLA 2414	5628	Cx. quinquefasciatus	Granada Hills	50	GRVD	7/26/2022	WNV
Los Angeles	GRLA 2419	5624	Cx. quinquefasciatus	Panorama City	50	GRVD	7/26/2022	WNV
Los Angeles	GRLA 2421	5626	Cx. quinquefasciatus	Panorama City	31	BGSENT	7/26/2022	WNV
Los Angeles	GRLA 2540	5649	Cx. quinquefasciatus	Porter Ranch	14	BGSENT	7/28/2022	WNV
Los Angeles	GRLA 2555	5641	Cx. quinquefasciatus	Encino	50	GRVD	7/28/2022	WNV
Los Angeles	GRLA 2635	5650	Cx. quinquefasciatus	Lake Balboa	21	GRVD	7/28/2022	WNV
Los Angeles	GRLA 2636	5640	Cx. quinquefasciatus	Lake Balboa	42	GRVD	7/28/2022	WNV
Los Angeles	GRLA 2637	5625	Cx. quinquefasciatus	Van Nuys	22	GRVD	7/26/2022	WNV
Los Angeles	GRLA 2650	5623	Cx. quinquefasciatus	Van Nuys	50	GRVD	7/26/2022	WNV
Los Angeles	GRLA 2952	561	Cx. quinquefasciatus	South Whittier	23	GRVD	7/26/2022	WNV
Los Angeles	GRLA 2953	564	Cx. quinquefasciatus	Santa Fe Springs	50	GRVD	7/26/2022	WNV
Los Angeles	GRLA 2957	595	Cx. quinquefasciatus	Hawaiian Gardens	50	GRVD	7/29/2022	WNV
Los Angeles	GRLA 3034	5627	Cx. quinquefasciatus	North Hills	18	GRVD	7/26/2022	WNV
Los Angeles	GRLA 3041	567	Cx. quinquefasciatus	Artesia	50	GRVD	7/26/2022	WNV
Los Angeles	GRLA 3042	576	Cx. quinquefasciatus	Hacienda Heights	46	GRVD	7/27/2022	WNV
Los Angeles	GRLA 3045	582	Cx. quinquefasciatus	Whittier	50	GRVD	7/27/2022	WNV
Los Angeles	GRLA 3052	580	Cx. quinquefasciatus	La Habra Heights	50	GRVD	7/27/2022	WNV
Los Angeles	GRLA 3053	581	Cx. quinquefasciatus	Hacienda Heights	49	GRVD	7/27/2022	WNV
Los Angeles	GRLA 3097	5660	Cx. quinquefasciatus	Arleta	42	GRVD	7/29/2022	WNV
Los Angeles	GRLA 3133	5652	Cx. quinquefasciatus	San Fernando	38	GRVD	7/29/2022	WNV
Los Angeles	SGVA 1069	697	Cx. quinquefasciatus	La Puente	50	GRVD	7/28/2022	WNV
Los Angeles	SGVA 1074	711	Cx. quinquefasciatus	Temple City	10	GRVD	8/2/2022	WNV

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Los Angeles	SGVA 117	696	Cx. quinquefasciatus	Pasadena	50	GRVD	7/28/2022	WNV
Los Angeles	SGVA 291	693	Cx. quinquefasciatus	El Monte	50	GRVD	7/28/2022	WNV
Los Angeles	SGVA 316	699	Cx. quinquefasciatus	Duarte	50	GRVD	7/28/2022	WNV
Los Angeles	SGVA 385	694	Cx. quinquefasciatus	Arcadia	50	GRVD	7/28/2022	WNV
Los Angeles	SGVA 4	695	Cx. quinquefasciatus	Arcadia	50	GRVD	7/28/2022	WNV
Los Angeles	SGVA 466	713	Cx. quinquefasciatus	Pasadena	15	GRVD	8/2/2022	WNV
Los Angeles	SGVA 473	710	Cx. quinquefasciatus	San Gabriel	50	GRVD	8/2/2022	WNV
Los Angeles	SGVA 683	716	Cx. quinquefasciatus	Sierra Madre	14	GRVD	8/2/2022	WNV
Los Angeles	SGVA 887	719	Cx. quinquefasciatus	Alhambra	50	GRVD	8/2/2022	WNV
Los Angeles	SGVA 898	712	Cx. quinquefasciatus	San Gabriel	39	GRVD	8/2/2022	WNV
Los Angeles	SGVA 996	717	Cx. quinquefasciatus	South Pasadena	50	GRVD	8/2/2022	WNV
Madera	MADR 12	392	Cx. tarsalis	Madera	50	CO2	7/29/2022	WNV
Madera	MADR 227	384	Cx. tarsalis	Madera	50	CO2	7/28/2022	WNV
Madera	MADR 259	378	Cx. tarsalis	Madera	50	CO2	7/28/2022	WNV
Madera	MADR 259	379	Cx. tarsalis	Madera	50	CO2	7/28/2022	WNV
Madera	MADR 259	380	Cx. tarsalis	Madera	50	CO2	7/28/2022	WNV
Madera	MADR 298	356	Cx. quinquefasciatus	Chowchilla	50	CO2	7/26/2022	WNV
Madera	MADR 300	358	Cx. quinquefasciatus	Chowchilla	50	CO2	7/26/2022	WNV
Madera	MADR 311	370	Cx. tarsalis	Madera	18	CO2	7/27/2022	WNV
Madera	MADR 3334	389	Cx. quinquefasciatus	Madera	50	CO2	7/28/2022	WNV
Madera	MADR 581	372	Cx. tarsalis	Madera	50	CO2	7/27/2022	WNV
Merced	MERC 201722	125	Cx. tarsalis	winton	36	CO2	8/2/2022	WNV
Riverside	COAV 130	4073	Cx. tarsalis	Oasis	53	CO2	8/2/2022	WNV
Riverside	COAV 27	4045	Cx. tarsalis	Thermal	21	CO2	8/2/2022	WNV
Riverside	COAV 27	4046	Cx. quinquefasciatus	Thermal	13	CO2	8/2/2022	WNV
Riverside	COAV 37	4148	Cx. tarsalis	Mecca	50	CO2	8/2/2022	WNV
Sacramento	SAYO 202016	3101	Cx. pipiens	Sacramento	42	CO2	8/2/2022	WNV
Sacramento	SAYO 213017	3097	Cx. tarsalis	Sacramento	5	GRVD	8/2/2022	WNV
Sacramento	SAYO 232039	2876	Cx. pipiens	Sacramento	2	GRVD	7/29/2022	WNV
Sacramento	SAYO 245026	2870	Cx. pipiens	Wilton	1	GRVD	7/29/2022	WNV
San Bernardino	WVAL 127	1065	Cx. quinquefasciatus	Ontario	33	GRVD	8/2/2022	WNV
San Bernardino	WVAL 4568	1096	Cx. quinquefasciatus	Upland	50	GRVD	8/3/2022	WNV
San Bernardino	WVAL 4721	1112	Cx. quinquefasciatus	Chino	37	BGSENT	8/3/2022	WNV
San Bernardino	WVAL 5443	1109	Cx. quinquefasciatus	Chino	34	BGSENT	8/3/2022	WNV
San Joaquin	SJCM 7028	1360	Cx. pipiens	Lodi	9	GRVD	8/4/2022	WNV
San Joaquin	SJCM 8018	1243	Cx. tarsalis	Stockton	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8018	1245	Cx. tarsalis	Stockton	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8018	1247	Cx. tarsalis	Stockton	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8018	1248	Cx. tarsalis	Stockton	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8018	1251	Cx. tarsalis	Stockton	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8027	1302	Cx. tarsalis	Stockton	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8074	1349	Cx. tarsalis	Morada	17	CO2	8/4/2022	WNV
San Joaquin	SJCM 8083	1324	Cx. pipiens	Escalon	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8083	1327	Cx. pipiens	Escalon	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8083	1328	Cx. pipiens	Escalon	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8199	1316	Cx. tarsalis	Manteca	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8199	1317	Cx. tarsalis	Manteca	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8199	1318	Cx. tarsalis	Manteca	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8199	1319	Cx. tarsalis	Manteca	25	CO2	8/2/2022	WNV
San Joaquin	SJCM 8199	1320	Cx. pipiens	Manteca	30	CO2	8/2/2022	WNV
San Joaquin	SJCM 8206	1330	Cx. tarsalis	Lodi	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8206	1331	Cx. tarsalis	Lodi	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8206	1332	Cx. tarsalis	Lodi	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8206	1333	Cx. tarsalis	Lodi	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8206	1334	Cx. tarsalis	Lodi	41	CO2	8/2/2022	WNV
San Joaquin	SJCM 8206	1335	Cx. pipiens	Lodi	50	CO2	8/2/2022	WNV
San Joaquin	SJCM 8206	1336	Cx. pipiens	Lodi	34	CO2	8/2/2022	WNV
San Joaquin	SJCM 8208	1338	Cx. tarsalis	Lodi	49	CO2	8/4/2022	WNV
San Joaquin	SJCM 8208	1339	Cx. pipiens	Lodi	36	CO2	8/4/2022	WNV
San Joaquin	SJCM 8209	1346	Cx. pipiens	Lodi	11	CO2	8/4/2022	WNV
Santa Clara	STCL 31603	2485	Cx. pipiens	Cupertino	2	GRVD	8/2/2022	WNV
Santa Clara	STCL 32040	2270	Cx. pipiens	Sunnyvale	4	CO2-EVS	7/26/2022	WNV
Shasta	SHAS 10070	302	Cx. tarsalis	Shasta Lake City	50	CO2	8/3/2022	WNV
Shasta	SHAS 246	305	Cx. tarsalis	Redding	23	CO2	8/3/2022	WNV
Shasta	SHAS 707	308	Cx. tarsalis	Shasta Lake	38	CO2	8/3/2022	WNV
Stanislaus	EAST 1008	22113	Cx. tarsalis	Modesto	29	CO2	7/25/2022	WNV
Stanislaus	TRLK 1305	404	Cx. tarsalis	Patterson	50	CO2	8/2/2022	WNV
Stanislaus	TRLK 1615	383	Cx. tarsalis	Modesto	50	CO2	8/2/2022	WNV
Stanislaus	TRLK 1615	384	Cx. tarsalis	Modesto	50	CO2	8/2/2022	WNV

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Stanislaus	TRLK 2291	371	Cx. pipiens	Modesto	11	CO2	7/28/2022	WNV
Stanislaus	TRLK 319	397	Cx. tarsalis	Newman	50	CO2	8/2/2022	WNV
Stanislaus	TRLK 806	377	Cx. tarsalis	Grayson	33	CO2	8/2/2022	WNV
Sutter	SUYA 44	331	Cx. tarsalis	Pleasant Grove	48	CO2	8/3/2022	WNV
Sutter	SUYA 63	335	Cx. tarsalis	Live Oak	15	REST	8/1/2022	WNV
Tulare	DLNO 171	113	Cx. quinquefasciatus	Earlimart	22	GRVD	8/2/2022	WNV
Tulare	DLTA 623621	1976	Cx. stigmatosoma	Kingsburg	50	CO2	7/26/2022	WNV
Tulare	DLTA 63091	1963	Cx. stigmatosoma	Reedley	12	CO2	7/26/2022	WNV
Tulare	DLTA 63172	1969	Cx. quinquefasciatus	Reedley	16	CO2	7/26/2022	WNV
Tulare	DLTA 63172	1970	Cx. stigmatosoma	Reedley	13	CO2	7/26/2022	WNV
Tulare	DLTA 63192	2077	Cx. stigmatosoma	Kingsburg	26	CO2	7/29/2022	WNV
Tulare	DLTA 632144	2069	Cx. tarsalis	Delft Colony	13	CO2	7/29/2022	WNV
Tulare	DLTA 632144	2070	Cx. stigmatosoma	Delft Colony	20	CO2	7/29/2022	WNV
Tulare	DLTA 632144	2071	Cx. quinquefasciatus	Delft Colony	50	CO2	7/29/2022	WNV
Tulare	DLTA 632144	2072	Cx. quinquefasciatus	Delft Colony	50	CO2	7/29/2022	WNV
Tulare	DLTA 632144	2073	Cx. quinquefasciatus	Delft Colony	36	CO2	7/29/2022	WNV
Tulare	DLTA 632263	2074	Cx. quinquefasciatus	Delft Colony	47	CO2	7/29/2022	WNV
Tulare	DLTA 632263	2075	Cx. quinquefasciatus	Delft Colony	10	CO2	7/29/2022	WNV
Tulare	DLTA 632614	2080	Cx. stigmatosoma	Delft Colony	15	CO2	7/29/2022	WNV
Tulare	DLTA 632722	2068	Cx. quinquefasciatus	Delft Colony	32	CO2	7/29/2022	WNV
Tulare	DLTA 633034	2078	Cx. stigmatosoma	Kingsburg	24	CO2	7/29/2022	WNV
Tulare	DLTA 633034	2079	Cx. quinquefasciatus	Kingsburg	15	CO2	7/29/2022	WNV
Tulare	DLTA 64071	1959	Cx. quinquefasciatus	Dinuba	50	BGSENT	7/26/2022	WNV
Tulare	DLTA 64073	2054	Cx. quinquefasciatus	Dinuba	25	BGSENT	7/28/2022	WNV
Tulare	DLTA 64074	1944	Cx. quinquefasciatus	DINUBA	19	GRVD	7/22/2022	WNV
Tulare	DLTA 64074	2092	Cx. quinquefasciatus	Dinuba	23	BGSENT	7/29/2022	WNV
Tulare	DLTA 6408	1948	Cx. quinquefasciatus	Dinuba	15	GRVD	7/22/2022	WNV
Tulare	DLTA 6408	2042	Cx. quinquefasciatus	Dinuba	19	GRVD	7/28/2022	WNV
Tulare	DLTA 6417	2040	Cx. quinquefasciatus	Dinuba	11	GRVD	7/28/2022	WNV
Tulare	DLTA 6417	2060	Cx. quinquefasciatus	Dinuba	18	BGSENT	7/28/2022	WNV
Tulare	DLTA 6420	1942	Cx. quinquefasciatus	Dinuba	13	BGSENT	7/22/2022	WNV
Tulare	DLTA 6420	2088	Cx. quinquefasciatus	Dinuba	41	BGSENT	7/29/2022	WNV
Tulare	DLTA 6420	2089	Cx. quinquefasciatus	Dinuba	10	BGSENT	7/29/2022	WNV
Tulare	DLTA 6420	2090	Cx. stigmatosoma	Dinuba	15	BGSENT	7/29/2022	WNV
Tulare	DLTA 6517	2112	Cx. quinquefasciatus	Orosi	17	BGSENT	8/2/2022	WNV
Tulare	DLTA 6518	1945	Cx. quinquefasciatus	Cutler	23	BGSENT	7/22/2022	WNV
Tulare	DLTA 6518	1951	Cx. quinquefasciatus	Cutler	20	GRVD	7/22/2022	WNV
Tulare	DLTA 740744	2014	Cx. quinquefasciatus	London	50	CO2	7/27/2022	WNV
Tulare	DLTA 740744	2015	Cx. quinquefasciatus	London	50	CO2	7/27/2022	WNV
Tulare	DLTA 740744	2017	Cx. quinquefasciatus	London	50	CO2	7/27/2022	WNV
Tulare	DLTA 740813	2006	Cx. quinquefasciatus	London	50	CO2	7/27/2022	WNV
Tulare	DLTA 741334	1996	Cx. quinquefasciatus	Monson	50	CO2	7/27/2022	WNV
Tulare	DLTA 741443	1993	Cx. quinquefasciatus	Monson	31	CO2	7/27/2022	WNV
Tulare	DLTA 741723	2164	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741723	2165	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741723	2166	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741723	2167	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741723	2168	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741723	2169	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741723	2170	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741723	2171	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741723	2172	Cx. quinquefasciatus	London	20	CO2	8/3/2022	WNV
Tulare	DLTA 741723	2173	Cx. tarsalis	London	13	CO2	8/3/2022	WNV
Tulare	DLTA 741743	2175	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741743	2177	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741743	2179	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 8324	2096	Cx. tarsalis	Goshen	39	BGSENT	7/29/2022	WNV
Tulare	DLTA 8324	2098	Cx. quinquefasciatus	Goshen	50	BGSENT	7/29/2022	WNV
Tulare	DLTA 8413	2030	Cx. quinquefasciatus	Visalia	49	BGSENT	7/27/2022	WNV
Tulare	DLTA 84131	2106	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 84131	2108	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841324	2116	Cx. quinquefasciatus	Visalia	17	CO2	8/2/2022	WNV
Tulare	DLTA 8414	1972	Cx. quinquefasciatus	Visalia	50	BGSENT	7/26/2022	WNV
Tulare	DLTA 841413	2134	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2135	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2137	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2139	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2141	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2142	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV

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Tulare	DLTA 841413	2143	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2144	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2145	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2146	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2147	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2148	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2149	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2150	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2151	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2152	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2153	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2154	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2155	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2156	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841413	2157	Cx. tarsalis	Visalia	25	CO2	8/2/2022	WNV
Tulare	DLTA 841423	2119	Cx. quinquefasciatus	Visalia	50	CO2	8/2/2022	WNV
Tulare	DLTA 841423	2123	Cx. quinquefasciatus	Visalia	21	CO2	8/2/2022	WNV
Tulare	DLTA 841533	2113	Cx. quinquefasciatus	Visalia	45	CO2	8/2/2022	WNV
Tulare	DLTA 841632	2114	Cx. quinquefasciatus	Visalia	41	CO2	8/2/2022	WNV
Tulare	DLTA 84193	2039	Cx. quinquefasciatus	Visalia	12	GRVD	7/28/2022	WNV
Tulare	DLTA 8422	2021	Cx. quinquefasciatus	Goshen	50	BGSENT	7/27/2022	WNV
Tulare	DLTA 8422	2022	Cx. quinquefasciatus	Goshen	25	BGSENT	7/27/2022	WNV
Tulare	DLTA 8422	2102	Cx. quinquefasciatus	Goshen	50	BGSENT	7/29/2022	WNV
Tulare	DLTA 8422	2103	Cx. quinquefasciatus	Goshen	44	BGSENT	7/29/2022	WNV
Tulare	DLTA 84221	2124	Cx. quinquefasciatus	Visalia	48	BGSENT	8/2/2022	WNV
Tulare	DLTA 8423	2024	Cx. quinquefasciatus	Visalia	36	BGSENT	7/27/2022	WNV
Tulare	DLTA 8424	1967	Cx. quinquefasciatus	Visalia	50	BGSENT	7/26/2022	WNV
Tulare	DLTA 8424	1968	Cx. quinquefasciatus	Visalia	29	BGSENT	7/26/2022	WNV
Tulare	DLTA 8424	2035	Cx. quinquefasciatus	Visalia	48	BGSENT	7/27/2022	WNV
Tulare	DLTA 85121	2126	Cx. quinquefasciatus	Ivanhoe	31	BGSENT	8/2/2022	WNV
Tulare	DLTA 85194	1939	Cx. quinquefasciatus	Visalia	15	BGSENT	7/22/2022	WNV
Tulare	DLTA 8520	2162	Cx. quinquefasciatus	Visalia	50	BGSENT	8/3/2022	WNV
Tulare	DLTA 8521	2117	Cx. quinquefasciatus	Visalia	37	BGSENT	8/2/2022	WNV
Tulare	DLTA 8527	2050	Cx. quinquefasciatus	Visalia	17	BGSENT	7/28/2022	WNV
Tulare	DLTA 8531	2127	Cx. quinquefasciatus	Visalia	19	GRVD	8/2/2022	WNV
Tulare	DLTA 9402	2158	Cx. quinquefasciatus	Visalia	18	GRVD	8/3/2022	WNV
Tulare	DLTA 94042	2045	Cx. quinquefasciatus	Visalia	25	CO2	7/28/2022	WNV
Tulare	DLTA 94114	2044	Cx. tarsalis	Visalia	16	CO2	7/28/2022	WNV
Tulare	DLTA 9511	1935	Cx. quinquefasciatus	Famersville	49	BGSENT	7/21/2022	WNV
Tulare	DLTA 9604	2087	Cx. quinquefasciatus	Exeter	25	BGSENT	7/29/2022	WNV
Tulare	DLTA 9606	2100	Cx. quinquefasciatus	Farmersville	10	GRVD	7/29/2022	WNV
Yolo	SAYO 125025	2907	Cx. pipiens	Woodland	9	GRVD	7/29/2022	WNV
Yolo	SAYO 145013	3034	Cx. tarsalis	Davis	17	CO2	8/2/2022	WNV
Yuba	SUYA 10	327	Cx. tarsalis	Olivehurst	44	CO2	8/2/2022	WNV
Yuba	SUYA 4	324	Cx. tarsalis	Wheatland	32	CO2	8/2/2022	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04	Band 05	Band 06
Butte	BUCO 1	Chico	7/26/2022	WNV	1601	1603	1606	1606		
Butte	BUCO 3	Oroville	7/26/2022	WNV	1613					
Butte	BUCO 6	Chico	7/26/2022	WNV	1635					
Merced	MERC 1	Merced	7/29/2022	WNV	1150					
Merced	MERC 501	Merced	7/29/2022	WNV	1168					
Sutter	SUYA 15	Robbins	7/28/2022	WNV	1444	1449				
Tulare	TLRE 8	Tulare	7/26/2022	WNV	1502	1504	1508	1509	1511	1512

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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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