

California Arbovirus Surveillance Bulletin #19

Week 32 Friday, August 12, 2022



WEEKLY UPDATE

Humans

West Nile virus

A total of 5 cases of West Nile virus (WNV) illness were reported this week: Butte (1), Kern (1), Los Angeles (1), Solano (1), and Tulare (1). **These are the first human WNV cases reported from Butte, Los Angeles, and Solano counties this year.** In 2022, a total of 12 WNV human cases have been reported from 8 counties: Butte (1), Kern (3), Kings (1), Los Angeles (1), Solano (1), Stanislaus (3), Tulare (1), and Yolo (1). Of the 12 cases, 9 (75%) had neuroinvasive illness. The median age of case patients was 60 years and 8 (67%) of the case patients were male. The dates of symptom onset ranged from May 8 to June 23. In addition to the 12 WNV cases, 3 asymptomatic WNV-positive blood donors have been reported from 2 counties: Fresno (2), and Kern (1). At this time last year, 15 WNV cases had been reported from 9 counties.

St. Louis encephalitis virus

A single (1) human case of St. Louis encephalitis virus (SLEV) was reported this week from Tulare County. 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 8 WNV positive dead birds were reported this week from 5 counties: Sacramento (1), San Bernardino (2), Santa Clara (3), Sutter (1), and Yolo (1). In 2022, 68 WNV positive dead birds have been reported from 13 counties. At this time last year, 121 WNV positive dead birds had been reported from 11 counties.

Mosquito Pools

West Nile virus

A total of 298 WNV positive mosquito pools were reported this week from 22 counties: Butte (4), Contra Costa (1), Fresno (20), Imperial (1), Kern (12), Kings (18), Los Angeles (39), Madera (16), Merced (2), Orange (2), Placer (7), Riverside (4), Sacramento (1), San Bernardino (13), San Joaquin (25), Shasta (3), Solano (4), Stanislaus (3), Sutter (1), Tulare (107), Yolo (12), and Yuba (3). **This is the first detection of WNV activity in Imperial County this year.** In 2022, 1,263 WNV positive mosquito pools have been reported from 23 counties. At this time last year, 985 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 3 counties: Imperial (1), Kings (1), and Riverside (1). In 2022, 15 SLEV positive mosquito pools from 4 counties have been reported: Imperial (3), Kings (5), Riverside (6), and Tulare (1). At this time last year, 9 SLEV positive mosquito pools had been reported from 3 counties.

Sentinel Chickens

No WNV positive chickens were reported this week. In 2022, 17 WNV positive chickens have been reported from 5 counties. At this time last year, 30 WNV positive chickens had been reported from 6 counties.

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2021 & 2022 YTD West Nile Virus Comparisons		
	2021	2022
Total No. Dead Bird Reports	3,676	3,238
No. Positive Counties	26	24
No. Human Cases	15	12
No. Positive Dead Birds / No. Tested	121 / 1,126	68 / 848
No. Positive Mosquito Pools / No. Tested	985 / 21,142	1,263 / 22,432
No. Seroconversions / No. Tested	30 / 3,530	17 / 2,984

YTD WNV Activity by Element and County, 2022					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte	1		2	13	5
Contra Costa			1	2	
Fresno			2	183	
Imperial				1	
Kern	3	2		61	
Kings	1			62	
Los Angeles	1		16	137	
Madera				32	
Merced			1	4	3
Nevada			1		
Orange				16	
Placer				27	
Riverside				50	
Sacramento			21	13	
San Bernardino			3	34	
San Joaquin				104	
Santa Clara			8	11	
Shasta				15	
Solano	1		4	10	
Stanislaus	3			12	
Sutter			3	19	2
Tulare	1		1	426	6
Yolo	1		5	22	
Yuba				9	1
Totals	12	2	68	1,263	17

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TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	5	1	0
	YTD	12	3	0

Positive / Total Tested							
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA

Dead Birds	Week	8 / 31
	YTD	68 / 848

Chicken Sera	Week	0 / 172	0 / 172	0 / 172
	YTD	17 / 2,987	0 / 2,987	0 / 2,987

Mosquito Pools	Week	298 / 1,848	3 / 1,536	0 / 1,535	0 / 65	0 / 65	0 / 65
	YTD	1,263 / 22,432	15 / 19,517	0 / 19,474	0 / 280	0 / 280	0 / 280

POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	Yellow-billed Magpie	8/5/2022	WNV
San Bernardino	West Valley MVCD	Chino	91710	American Crow	8/9/2022	WNV
San Bernardino	West Valley MVCD	Upland	91784	Crow or Raven	8/5/2022	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95112	House Finch	8/5/2022	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	8/6/2022	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	American Crow	8/7/2022	WNV
Sutter	Sutter-Yuba MVCD	Yuba City	95991	American Crow	8/4/2022	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/7/2022	WNV

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO 113	302	Cx. tarsalis	Gridley	50	CO2	8/2/2022	WNV
Butte	BUCO 115	309	Cx. tarsalis	Nelson	50	CO2	8/1/2022	WNV
Butte	BUCO 123	298	Cx. tarsalis	Oroville	50	CO2	8/2/2022	WNV
Butte	BUCO 147	311	Cx. tarsalis	Gridley	50	CO2	8/3/2022	WNV
Contra Costa	CNTR 8302	724	Cx. pipiens	Knightsen	28	CO2	8/9/2022	WNV
Fresno	CNSL 1301	102	Cx. quinquefasciatus	Fresno	50	GRVD	8/5/2022	WNV
Fresno	CNSL 1955	591	Cx. quinquefasciatus	Clovis	26	GRVD	8/3/2022	WNV
Fresno	CNSL 2670	100	Cx. quinquefasciatus	Sanger	50	GRVD	8/4/2022	WNV
Fresno	CNSL 4014	590	Cx. quinquefasciatus	Fowler	36	GRVD	8/3/2022	WNV
Fresno	CNSL 4129	97	Cx. quinquefasciatus	Selma	50	GRVD	8/4/2022	WNV
Fresno	CNSL 4260	95	Cx. quinquefasciatus	Selma	50	GRVD	8/4/2022	WNV
Fresno	CNSL 4305	96	Cx. quinquefasciatus	Selma	50	GRVD	8/4/2022	WNV
Fresno	CNSL 9155	592	Cx. quinquefasciatus	Fresno	37	GRVD	8/3/2022	WNV

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Fresno	FRNO 10	643	Cx. tarsalis	Fresno	50	CO2	8/9/2022	WNV
Fresno	FRNO 10	644	Cx. tarsalis	Fresno	50	CO2	8/9/2022	WNV
Fresno	FRNO 116	661	Cx. quinquefasciatus	Fresno	7	GRVD	8/10/2022	WNV
Fresno	FRNO 219	649	Cx. quinquefasciatus	Fresno	50	GRVD	8/9/2022	WNV
Fresno	FRNO 219	650	Cx. quinquefasciatus	Fresno	50	GRVD	8/9/2022	WNV
Fresno	FRNO 251	646	Cx. quinquefasciatus	Fresno	50	GRVD	8/9/2022	WNV
Fresno	FRNO 261	636	Cx. quinquefasciatus	Fresno	50	GRVD	8/4/2022	WNV
Fresno	FRNO 35	642	Cx. quinquefasciatus	Fresno	13	CO2	8/4/2022	WNV
Fresno	FRNO 64	626	Cx. quinquefasciatus	Fresno	41	GRVD	8/4/2022	WNV
Fresno	FRWS 1202	231	Cx. tarsalis	Dos Palos	50	CO2	8/9/2022	WNV
Fresno	FRWS 4102	221	Cx. tarsalis	Kerman	50	CO2	8/9/2022	WNV
Fresno	FRWS 4102	222	Cx. tarsalis	Kerman	37	CO2	8/9/2022	WNV
Imperial	IMPR 130	129	Cx. quinquefasciatus	Imperial	22	BGSENT	8/9/2022	WNV
Imperial	IMPR 40	131	Cx. quinquefasciatus	Imperial	26	BGSENT	8/9/2022	SLEV
Kern	DLNO 113	127	Cx. quinquefasciatus	Delano	16	GRVD	8/9/2022	WNV
Kern	DLNO 26	120	Cx. quinquefasciatus	McFarland	50	CO2	8/4/2022	WNV
Kern	DLNO 33	118	Cx. tarsalis	McFarland	29	CO2	8/4/2022	WNV
Kern	DLNO 55	117	Cx. quinquefasciatus	McFarland	50	CO2	8/4/2022	WNV
Kern	DLNO 79	123	Cx. quinquefasciatus	McFarland	28	GRVD	8/5/2022	WNV
Kern	KERN 110	397	Cx. quinquefasciatus	Bakersfield	42	CO2	8/2/2022	WNV
Kern	KERN 118	402	Cx. tarsalis	Buttonwillow	50	CO2	8/2/2022	WNV
Kern	KERN 3041	407	Cx. quinquefasciatus	Bakersfield	45	CO2	8/4/2022	WNV
Kern	KERN 31	399	Cx. tarsalis	Arvin	50	CO2	8/2/2022	WNV
Kern	KERN 33	396	Cx. quinquefasciatus	Arvin	37	CO2	8/2/2022	WNV
Kern	KERN 45	405	Cx. quinquefasciatus	Buttonwillow	49	CO2	8/2/2022	WNV
Kern	KERN 55	400	Cx. quinquefasciatus	Arvin	36	CO2	8/2/2022	WNV
Kings	KNGS 3028	157	Cx. tarsalis	Hanford	50	CO2	8/4/2022	WNV
Kings	KNGS 3028	158	Cx. tarsalis	Hanford	50	CO2	8/4/2022	WNV
Kings	KNGS 3028	159	Cx. tarsalis	Hanford	50	CO2	8/4/2022	WNV
Kings	KNGS 3028	161	Cx. tarsalis	Hanford	50	CO2	8/4/2022	WNV
Kings	KNGS 3028	162	Cx. pipiens	Hanford	50	CO2	8/4/2022	WNV
Kings	KNGS 3072	139	Cx. tarsalis	Hanford	50	CO2	8/3/2022	WNV
Kings	KNGS 3072	142	Cx. stigmatosoma	Hanford	50	CO2	8/3/2022	WNV
Kings	KNGS 3099	152	Cx. tarsalis	Hanford	50	CO2	8/4/2022	WNV
Kings	KNGS 3108	146	Cx. tarsalis	Island	50	CO2	8/3/2022	WNV
Kings	KNGS 3108	147	Cx. tarsalis	Island	50	CO2	8/3/2022	WNV
Kings	KNGS 3108	148	Cx. tarsalis	Island	21	CO2	8/3/2022	WNV
Kings	KNGS 3127	166	Cx. tarsalis	Corcoran	50	CO2	8/5/2022	WNV
Kings	KNGS 3127	167	Cx. tarsalis	Corcoran	50	CO2	8/5/2022	WNV
Kings	KNGS 3127	168	Cx. tarsalis	Corcoran	50	CO2	8/5/2022	WNV
Kings	KNGS 3127	169	Cx. pipiens	Corcoran	39	CO2	8/5/2022	WNV
Kings	KNGS 3127	169	Cx. pipiens	Corcoran	39	CO2	8/5/2022	SLEV
Kings	KNGS 3129	137	Cx. tarsalis	Lemoore	15	CO2	8/3/2022	WNV
Kings	KNGS 3135	151	Cx. pipiens	Hanford	31	CO2	8/4/2022	WNV
Kings	KNGS 3136	155	Cx. tarsalis	Hanford	46	CO2	8/4/2022	WNV
Los Angeles	GRLA 2029	5686	Cx. quinquefasciatus	Canoga Park	50	GRVD	8/4/2022	WNV
Los Angeles	GRLA 2503	5663	Cx. quinquefasciatus	Elysian Valley	50	GRVD	7/31/2022	WNV
Los Angeles	GRLA 2554	5685	Cx. quinquefasciatus	Winnetka	50	GRVD	8/4/2022	WNV
Los Angeles	GRLA 2592	5673	Cx. quinquefasciatus	San Marino	50	GRVD	8/3/2022	WNV
Los Angeles	GRLA 2593	5674	Cx. quinquefasciatus	San Marino	18	GRVD	8/3/2022	WNV
Los Angeles	GRLA 2604	5675	Cx. quinquefasciatus	Eagle Rock	50	GRVD	8/3/2022	WNV
Los Angeles	GRLA 2669	5696	Cx. quinquefasciatus	Granada Hills	30	BGSENT	8/5/2022	WNV
Los Angeles	GRLA 2675	5695	Cx. quinquefasciatus	Granada Hills	22	GRVD	8/5/2022	WNV
Los Angeles	GRLA 2724	5684	Cx. quinquefasciatus	Winnetka	50	GRVD	8/4/2022	WNV
Los Angeles	GRLA 3046	602	Cx. quinquefasciatus	Bellflower	50	GRVD	8/3/2022	WNV
Los Angeles	GRLA 3047	601	Cx. quinquefasciatus	Downey	50	GRVD	8/3/2022	WNV
Los Angeles	GRLA 3049	613	Cx. quinquefasciatus	Downey	50	GRVD	8/3/2022	WNV
Los Angeles	GRLA 3064	619	Cx. quinquefasciatus	West Athens Village	50	GRVD	8/4/2022	WNV
Los Angeles	SGVA 0	774	Cx. quinquefasciatus	West Covina	50	GRVD	8/11/2022	WNV
Los Angeles	SGVA 0	775	Cx. quinquefasciatus	West Covina	50	GRVD	8/11/2022	WNV
Los Angeles	SGVA 0	777	Cx. quinquefasciatus	West Covina	50	GRVD	8/11/2022	WNV
Los Angeles	SGVA 1010	726	Cx. quinquefasciatus	Monrovia	43	GRVD	8/4/2022	WNV
Los Angeles	SGVA 1010	751	Cx. quinquefasciatus	Monrovia	18	GRVD	8/9/2022	WNV
Los Angeles	SGVA 1074	750	Cx. quinquefasciatus	Temple City	50	GRVD	8/9/2022	WNV
Los Angeles	SGVA 1077	734	Cx. quinquefasciatus	La Puente	35	GRVD	8/4/2022	WNV
Los Angeles	SGVA 285	770	Cx. quinquefasciatus	Baldwin Park	19	GRVD	8/10/2022	WNV
Los Angeles	SGVA 286	729	Cx. quinquefasciatus	Baldwin Park	50	GRVD	8/4/2022	WNV
Los Angeles	SGVA 291	731	Cx. quinquefasciatus	El Monte	20	GRVD	8/4/2022	WNV
Los Angeles	SGVA 291	749	Cx. quinquefasciatus	El Monte	20	GRVD	8/9/2022	WNV

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Los Angeles	SGVA 385	730	Cx. quinquefasciatus	Arcadia	50	GRVD	8/4/2022	WNV
Los Angeles	SGVA 385	748	Cx. quinquefasciatus	Arcadia	23	GRVD	8/9/2022	WNV
Los Angeles	SGVA 395	772	Cx. quinquefasciatus	Pasadena	27	GRVD	8/11/2022	WNV
Los Angeles	SGVA 396	771	Cx. quinquefasciatus	Pasadena	41	GRVD	8/11/2022	WNV
Los Angeles	SGVA 4	736	Cx. quinquefasciatus	Arcadia	50	GRVD	8/4/2022	WNV
Los Angeles	SGVA 450	757	Cx. quinquefasciatus	La Puente	17	BGSENT	8/9/2022	WNV
Los Angeles	SGVA 474	776	Cx. quinquefasciatus	San Gabriel	50	GRVD	8/11/2022	WNV
Los Angeles	SGVA 482	724	Cx. quinquefasciatus	Duarte	50	GRVD	8/4/2022	WNV
Los Angeles	SGVA 5	722	Cx. quinquefasciatus	Irwindale	25	GRVD	8/4/2022	WNV
Los Angeles	SGVA 668	745	Cx. quinquefasciatus	Covina	32	GRVD	8/9/2022	WNV
Los Angeles	SGVA 875	761	Cx. quinquefasciatus	Walnut	50	GRVD	8/9/2022	WNV
Los Angeles	SGVA 898	752	Cx. quinquefasciatus	San Gabriel	50	GRVD	8/9/2022	WNV
Los Angeles	SGVA 961	773	Cx. quinquefasciatus	Alhambra	50	GRVD	8/11/2022	WNV
Los Angeles	SGVA 967	754	Cx. quinquefasciatus	Temple City	50	GRVD	8/9/2022	WNV
Los Angeles	SGVA 996	755	Cx. quinquefasciatus	South Pasadena	50	GRVD	8/9/2022	WNV
Madera	MADR 208	401	Cx. quinquefasciatus	Madera	50	CO2	8/3/2022	WNV
Madera	MADR 208	402	Cx. tarsalis	Madera	50	CO2	8/3/2022	WNV
Madera	MADR 227	432	Cx. tarsalis	Madera	50	CO2	8/5/2022	WNV
Madera	MADR 259	437	Cx. tarsalis	Madera	46	CO2	8/5/2022	WNV
Madera	MADR 259	438	Cx. quinquefasciatus	Madera	33	CO2	8/5/2022	WNV
Madera	MADR 259	439	Cx. tarsalis	Madera	50	CO2	8/5/2022	WNV
Madera	MADR 259	440	Cx. tarsalis	Madera	50	CO2	8/5/2022	WNV
Madera	MADR 300	408	Cx. quinquefasciatus	Chowchilla	50	CO2	8/3/2022	WNV
Madera	MADR 3334	427	Cx. quinquefasciatus	Madera	50	CO2	8/5/2022	WNV
Madera	MADR 3334	428	Cx. tarsalis	Madera	50	CO2	8/5/2022	WNV
Madera	MADR 3334	429	Cx. tarsalis	Madera	50	CO2	8/5/2022	WNV
Madera	MADR 3334	433	Cx. quinquefasciatus	Madera	50	CO2	8/5/2022	WNV
Madera	MADR 581	418	Cx. quinquefasciatus	Madera	50	CO2	8/4/2022	WNV
Madera	MADR 85	420	Cx. quinquefasciatus	Madera	30	CO2	8/4/2022	WNV
Madera	MADR 896	441	Cx. tarsalis	Mendota	50	CO2	8/2/2022	WNV
Madera	MADR 896	442	Cx. tarsalis	Mendota	50	CO2	8/2/2022	WNV
Merced	MERC 121825	166	Cx. tarsalis	Merced	5	CO2	8/9/2022	WNV
Merced	MERC 748377	165	Cx. tarsalis	Merced	14	CO2	8/9/2022	WNV
Orange	ORCO 2643	2643	Cx. quinquefasciatus	Brea	32	GRVD	8/9/2022	WNV
Orange	ORCO 2690	2690	Cx. quinquefasciatus	Fullerton	51	GRVD	8/9/2022	WNV
Placer	PLCR 1113	1197	Cx. tarsalis	Pleasant Grove	17	CO2	8/9/2022	WNV
Placer	PLCR 191218	1173	Cx. tarsalis	Roseville	45	CO2	8/9/2022	WNV
Placer	PLCR 191373	1199	Cx. tarsalis	Roseville	50	CO2	8/9/2022	WNV
Placer	PLCR 191373	1200	Cx. tarsalis	Roseville	50	CO2	8/9/2022	WNV
Placer	PLCR 191373	1201	Cx. tarsalis	Roseville	50	CO2	8/9/2022	WNV
Placer	PLCR 191998	1181	Cx. tarsalis	Lincoln	19	CO2	8/9/2022	WNV
Placer	PLCR 25	1193	Cx. tarsalis	Lincoln	37	CO2	8/9/2022	WNV
Riverside	COAV 55	4168	Cx. tarsalis	Mecca	50	CO2	8/9/2022	WNV
Riverside	COAV 55	4169	Cx. tarsalis	Mecca	39	CO2	8/9/2022	WNV
Riverside	COAV 58	4176	Cx. tarsalis	North Shore	44	CO2	8/9/2022	WNV
Riverside	COAV 58	4200	Cx. tarsalis	North Shore	50	CO2	8/4/2022	SLEV
Riverside	COAV 608	4223	Cx. tarsalis	Mecca	15	CO2	8/9/2022	WNV
Sacramento	SAYO 213017	3349	Cx. pipiens	Sacramento	2	CO2	8/9/2022	WNV
San Bernardino	WVAL 2018	1165	Cx. quinquefasciatus	Chino	22	GRVD	8/10/2022	WNV
San Bernardino	WVAL 318	1152	Cx. quinquefasciatus	Chino	21	BGSENT	8/9/2022	WNV
San Bernardino	WVAL 359	1175	Cx. quinquefasciatus	Chino	14	CO2	8/10/2022	WNV
San Bernardino	WVAL 3970	1134	Cx. quinquefasciatus	Chino	7	BGSENT	8/9/2022	WNV
San Bernardino	WVAL 4637	1147	Cx. quinquefasciatus	Rancho Cucamonga	17	GRVD	8/9/2022	WNV
San Bernardino	WVAL 4721	1163	Cx. quinquefasciatus	Chino	28	BGSENT	8/10/2022	WNV
San Bernardino	WVAL 5406	1154	Cx. quinquefasciatus	Rancho Cucamonga	9	BGSENT	8/9/2022	WNV
San Bernardino	WVAL 5443	1184	Cx. quinquefasciatus	Chino	31	BGSENT	8/11/2022	WNV
San Bernardino	WVAL 5456	1151	Cx. quinquefasciatus	Chino	11	BGSENT	8/9/2022	WNV
San Bernardino	WVAL 5467	1183	Cx. quinquefasciatus	Chino	20	BGSENT	8/11/2022	WNV
San Bernardino	WVAL 6001	1150	Cx. quinquefasciatus	Ontario	13	GRVD	8/9/2022	WNV
San Bernardino	WVAL 7002	1120	Cx. quinquefasciatus	Montclair	29	GRVD	8/9/2022	WNV
San Bernardino	WVAL 9005	1123	Cx. quinquefasciatus	Upland	14	GRVD	8/9/2022	WNV
San Joaquin	SJCM 8008	1435	Cx. tarsalis	Manteca	53	CO2	8/9/2022	WNV
San Joaquin	SJCM 8008	1436	Cx. pipiens	Manteca	8	CO2	8/9/2022	WNV
San Joaquin	SJCM 8018	1373	Cx. tarsalis	Stockton	50	CO2	8/9/2022	WNV
San Joaquin	SJCM 8018	1374	Cx. tarsalis	Stockton	50	CO2	8/9/2022	WNV
San Joaquin	SJCM 8018	1375	Cx. tarsalis	Stockton	50	CO2	8/9/2022	WNV
San Joaquin	SJCM 8018	1376	Cx. tarsalis	Stockton	50	CO2	8/9/2022	WNV
San Joaquin	SJCM 8018	1377	Cx. tarsalis	Stockton	50	CO2	8/9/2022	WNV
San Joaquin	SJCM 8018	1378	Cx. tarsalis	Stockton	50	CO2	8/9/2022	WNV

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San Joaquin	SJCM 8018	1379	Cx. tarsalis	Stockton	50	CO2	8/9/2022	WNV
San Joaquin	SJCM 8018	1380	Cx. tarsalis	Stockton	50	CO2	8/9/2022	WNV
San Joaquin	SJCM 8018	1381	Cx. tarsalis	Stockton	50	CO2	8/9/2022	WNV
San Joaquin	SJCM 8018	1382	Cx. tarsalis	Stockton	50	CO2	8/9/2022	WNV
San Joaquin	SJCM 8018	1383	Cx. pipiens	Stockton	16	CO2	8/9/2022	WNV
San Joaquin	SJCM 8056	1412	Cx. tarsalis	Manteca	32	CO2	8/9/2022	WNV
San Joaquin	SJCM 8056	1413	Cx. pipiens	Manteca	21	CO2	8/9/2022	WNV
San Joaquin	SJCM 8143	1442	Cx. tarsalis	Stockton	37	CO2	8/10/2022	WNV
San Joaquin	SJCM 8143	1443	Cx. pipiens	Stockton	16	CO2	8/10/2022	WNV
San Joaquin	SJCM 8200	1453	Cx. tarsalis	Lodi	50	CO2	8/11/2022	WNV
San Joaquin	SJCM 8204	1366	Cx. tarsalis	Stockton	50	CO2	8/9/2022	WNV
San Joaquin	SJCM 8206	1428	Cx. tarsalis	Lodi	50	CO2	8/9/2022	WNV
San Joaquin	SJCM 8206	1430	Cx. tarsalis	Lodi	50	CO2	8/9/2022	WNV
San Joaquin	SJCM 8206	1432	Cx. pipiens	Lodi	44	CO2	8/9/2022	WNV
San Joaquin	SJCM 8233	1398	Cx. tarsalis	Stockton	50	CO2	8/9/2022	WNV
San Joaquin	SJCM 8233	1399	Cx. tarsalis	Stockton	50	CO2	8/9/2022	WNV
San Joaquin	SJCM 8233	1400	Cx. pipiens	Stockton	50	CO2	8/9/2022	WNV
Shasta	SHAS 10070	328	Cx. tarsalis	Shasta Lake City	16	CO2	8/9/2022	WNV
Shasta	SHAS 375	332	Cx. tarsalis	Bella Vista	27	CO2	8/9/2022	WNV
Shasta	SHAS 80	341	Cx. tarsalis	Anderson	31	CO2	8/9/2022	WNV
Solano	SOLA 143	261	Cx. tarsalis	Elmira	25	CO2	8/9/2022	WNV
Solano	SOLA 169	244	Cx. tarsalis	Vacaville	1	CO2	8/5/2022	WNV
Solano	SOLA 175	246	Cx. tarsalis	Vacaville	2	CO2	8/5/2022	WNV
Solano	SOLA 252	268	Cx. pipiens	Fairfield	14	CO2	8/11/2022	WNV
Stanislaus	EAST 2021	22126	Cx. pipiens	Modesto	25	GRVD	8/3/2022	WNV
Stanislaus	EAST 2023	22125	Cx. pipiens	Modesto	23	GRVD	8/3/2022	WNV
Stanislaus	TRLK 1107	448	Cx. pipiens	Denair	18	CO2	8/9/2022	WNV
Sutter	SUYA 44	357	Cx. tarsalis	Pleasant Grove	43	CO2	8/10/2022	WNV
Tulare	DLNO 156	126	Cx. quinquefasciatus	Earlimart	13	GRVD	8/9/2022	WNV
Tulare	DLNO 201	125	Cx. quinquefasciatus	Earlimart	20	GRVD	8/9/2022	WNV
Tulare	DLNO 96	119	Cx. tarsalis	Earlimart	50	CO2	8/4/2022	WNV
Tulare	DLTA 5	2341	Cx. quinquefasciatus	Dinuba	50	CO2	8/9/2022	WNV
Tulare	DLTA 5	2342	Cx. quinquefasciatus	Dinuba	41	CO2	8/9/2022	WNV
Tulare	DLTA 5	2343	Cx. stigmatosoma	Dinuba	50	CO2	8/9/2022	WNV
Tulare	DLTA 5	2344	Cx. stigmatosoma	Dinuba	10	CO2	8/9/2022	WNV
Tulare	DLTA 5	2345	Cx. tarsalis	Dinuba	25	CO2	8/9/2022	WNV
Tulare	DLTA 6	2290	Cx. quinquefasciatus	Dinuba	50	CO2	8/9/2022	WNV
Tulare	DLTA 6	2291	Cx. quinquefasciatus	Dinuba	50	CO2	8/9/2022	WNV
Tulare	DLTA 6	2292	Cx. quinquefasciatus	Dinuba	33	CO2	8/9/2022	WNV
Tulare	DLTA 6	2293	Cx. stigmatosoma	Dinuba	45	CO2	8/9/2022	WNV
Tulare	DLTA 6	2294	Cx. stigmatosoma	Dinuba	10	CO2	8/9/2022	WNV
Tulare	DLTA 6	2295	Cx. tarsalis	Dinuba	29	CO2	8/9/2022	WNV
Tulare	DLTA 633422	2282	Cx. quinquefasciatus	Delft Colony	48	CO2	8/9/2022	WNV
Tulare	DLTA 633422	2283	Cx. quinquefasciatus	Delft Colony	10	CO2	8/9/2022	WNV
Tulare	DLTA 640412	2284	Cx. quinquefasciatus	Dinuba	21	CO2	8/9/2022	WNV
Tulare	DLTA 640413	2305	Cx. quinquefasciatus	Dinuba	43	CO2	8/9/2022	WNV
Tulare	DLTA 640413	2307	Cx. tarsalis	Dinuba	10	CO2	8/9/2022	WNV
Tulare	DLTA 640413	2308	Cx. stigmatosoma	Dinuba	41	CO2	8/9/2022	WNV
Tulare	DLTA 640413	2309	Cx. stigmatosoma	Dinuba	10	CO2	8/9/2022	WNV
Tulare	DLTA 640422	2301	Cx. quinquefasciatus	Dinuba	28	CO2	8/9/2022	WNV
Tulare	DLTA 640422	2302	Cx. stigmatosoma	Dinuba	20	CO2	8/9/2022	WNV
Tulare	DLTA 640422	2303	Cx. tarsalis	Dinuba	18	CO2	8/9/2022	WNV
Tulare	DLTA 64074	2270	Cx. quinquefasciatus	Dinuba	27	GRVD	8/5/2022	WNV
Tulare	DLTA 6408	2202	Cx. quinquefasciatus	Dinuba	25	GRVD	8/3/2022	WNV
Tulare	DLTA 6420	2257	Cx. quinquefasciatus	Dinuba	27	BGSENT	8/5/2022	WNV
Tulare	DLTA 6518	2258	Cx. quinquefasciatus	Cutler	31	BGSENT	8/5/2022	WNV
Tulare	DLTA 6519	2360	Cx. quinquefasciatus	Cutler	24	GRVD	8/10/2022	WNV
Tulare	DLTA 7	2288	Cx. quinquefasciatus	Dinuba	15	CO2	8/9/2022	WNV
Tulare	DLTA 7	2289	Cx. stigmatosoma	Dinuba	15	CO2	8/9/2022	WNV
Tulare	DLTA 741743	2180	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741743	2184	Cx. quinquefasciatus	London	16	CO2	8/3/2022	WNV
Tulare	DLTA 741743	2185	Cx. tarsalis	London	13	CO2	8/3/2022	WNV
Tulare	DLTA 741744	2190	Cx. quinquefasciatus	Monson	50	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2208	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2209	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2210	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2211	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2212	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2213	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV

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Tulare	DLTA 741842	2214	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2215	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2216	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2217	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2218	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2219	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2220	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2221	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2222	Cx. quinquefasciatus	London	50	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2223	Cx. quinquefasciatus	London	30	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2224	Cx. tarsalis	London	23	CO2	8/3/2022	WNV
Tulare	DLTA 741842	2225	Cx. stigmatosoma	London	19	CO2	8/3/2022	WNV
Tulare	DLTA 75011	2188	Cx. quinquefasciatus	Seville	12	CO2	8/3/2022	WNV
Tulare	DLTA 7502	2363	Cx. quinquefasciatus	Seville	35	BGSENT	8/10/2022	WNV
Tulare	DLTA 752032	2380	Cx. quinquefasciatus	Patterson Tract	50	CO2	8/10/2022	WNV
Tulare	DLTA 752032	2383	Cx. quinquefasciatus	Patterson Tract	50	CO2	8/10/2022	WNV
Tulare	DLTA 752032	2385	Cx. quinquefasciatus	Patterson Tract	50	CO2	8/10/2022	WNV
Tulare	DLTA 752842	2392	Cx. quinquefasciatus	Ivanhoe	50	CO2	8/10/2022	WNV
Tulare	DLTA 752914	2351	Cx. quinquefasciatus	Patterson Tract	50	CO2	8/10/2022	WNV
Tulare	DLTA 752914	2353	Cx. quinquefasciatus	Patterson Tract	50	CO2	8/10/2022	WNV
Tulare	DLTA 752914	2355	Cx. quinquefasciatus	Patterson Tract	50	CO2	8/10/2022	WNV
Tulare	DLTA 8324	2261	Cx. quinquefasciatus	Goshen	14	BGSENT	8/5/2022	WNV
Tulare	DLTA 8324	2262	Cx. quinquefasciatus	Goshen	45	GRVD	8/5/2022	WNV
Tulare	DLTA 8413	2229	Cx. quinquefasciatus	Visalia	50	BGSENT	8/3/2022	WNV
Tulare	DLTA 8413	2296	Cx. quinquefasciatus	Visalia	50	BGSENT	8/9/2022	WNV
Tulare	DLTA 8413	2297	Cx. quinquefasciatus	Visalia	50	BGSENT	8/9/2022	WNV
Tulare	DLTA 8413	2298	Cx. quinquefasciatus	Visalia	50	BGSENT	8/9/2022	WNV
Tulare	DLTA 8413	2365	Cx. quinquefasciatus	Visalia	50	BGSENT	8/10/2022	WNV
Tulare	DLTA 8413	2368	Cx. quinquefasciatus	Visalia	47	BGSENT	8/10/2022	WNV
Tulare	DLTA 8413	2372	Cx. quinquefasciatus	Visalia	50	BGSENT	8/10/2022	WNV
Tulare	DLTA 8413	2373	Cx. quinquefasciatus	Visalia	50	BGSENT	8/10/2022	WNV
Tulare	DLTA 8413	2374	Cx. quinquefasciatus	Visalia	35	BGSENT	8/10/2022	WNV
Tulare	DLTA 8414	2280	Cx. quinquefasciatus	Visalia	11	GRVD	8/5/2022	WNV
Tulare	DLTA 8414	2318	Cx. quinquefasciatus	Visalia	42	BGSENT	8/9/2022	WNV
Tulare	DLTA 84194	2263	Cx. quinquefasciatus	Visalia	35	GRVD	8/5/2022	WNV
Tulare	DLTA 842013	2237	Cx. quinquefasciatus	Visalia	50	CO2	8/4/2022	WNV
Tulare	DLTA 842013	2238	Cx. quinquefasciatus	Visalia	50	CO2	8/4/2022	WNV
Tulare	DLTA 842013	2239	Cx. quinquefasciatus	Visalia	50	CO2	8/4/2022	WNV
Tulare	DLTA 842013	2240	Cx. quinquefasciatus	Visalia	44	CO2	8/4/2022	WNV
Tulare	DLTA 84221	2337	Cx. quinquefasciatus	Visalia	33	BGSENT	8/9/2022	WNV
Tulare	DLTA 8423	2375	Cx. quinquefasciatus	Visalia	50	BGSENT	8/10/2022	WNV
Tulare	DLTA 84231	2310	Cx. quinquefasciatus	Visalia	50	BGSENT	8/9/2022	WNV
Tulare	DLTA 84231	2313	Cx. quinquefasciatus	Visalia	50	BGSENT	8/9/2022	WNV
Tulare	DLTA 84231	2314	Cx. quinquefasciatus	Visalia	49	BGSENT	8/9/2022	WNV
Tulare	DLTA 8424	2364	Cx. quinquefasciatus	Visalia	12	GRVD	8/10/2022	WNV
Tulare	DLTA 84253	2243	Cx. quinquefasciatus	Visalia	22	BGSENT	8/4/2022	WNV
Tulare	DLTA 8426	2328	Cx. quinquefasciatus	Visalia	41	BGSENT	8/9/2022	WNV
Tulare	DLTA 8427	2269	Cx. quinquefasciatus	Visalia	23	BGSENT	8/5/2022	WNV
Tulare	DLTA 843232	2246	Cx. quinquefasciatus	Visalia	50	CO2	8/4/2022	WNV
Tulare	DLTA 8435	2249	Cx. quinquefasciatus	Visalia	11	BGSENT	8/4/2022	WNV
Tulare	DLTA 84352	2201	Cx. quinquefasciatus	Visalia	21	GRVD	8/3/2022	WNV
Tulare	DLTA 8507	2203	Cx. quinquefasciatus	Visalia	50	GRVD	8/3/2022	WNV
Tulare	DLTA 8507	2204	Cx. quinquefasciatus	Visalia	16	GRVD	8/3/2022	WNV
Tulare	DLTA 85123	2256	Cx. quinquefasciatus	Ivanhoe	35	GRVD	8/4/2022	WNV
Tulare	DLTA 85192	2348	Cx. quinquefasciatus	Visalia	14	GRVD	8/10/2022	WNV
Tulare	DLTA 8521	2275	Cx. quinquefasciatus	Visalia	37	GRVD	8/5/2022	WNV
Tulare	DLTA 8528	2267	Cx. quinquefasciatus	Visalia	23	GRVD	8/5/2022	WNV
Tulare	DLTA 8530	2245	Cx. quinquefasciatus	Visalia	21	BGSENT	8/4/2022	WNV
Tulare	DLTA 8534	2255	Cx. quinquefasciatus	Visalia	12	GRVD	8/4/2022	WNV
Tulare	DLTA 94032	2369	Cx. quinquefasciatus	Visalia	23	BGSENT	8/10/2022	WNV
Tulare	DLTA 9505	2266	Cx. quinquefasciatus	Visalia	25	GRVD	8/5/2022	WNV
Tulare	DLTA 9511	2252	Cx. quinquefasciatus	Famersville	48	BGSENT	8/4/2022	WNV
Tulare	DLTA 9511	2253	Cx. quinquefasciatus	Famersville	10	BGSENT	8/4/2022	WNV
Tulare	TLRE 192425	40	Cx. quinquefasciatus	Tulare	50	GRVD	8/3/2022	WNV
Tulare	TLRE 202424	38	Cx. quinquefasciatus	Tulare	46	GRVD	8/3/2022	WNV
Tulare	TLRE 202506	39	Cx. quinquefasciatus	Tulare	50	GRVD	8/3/2022	WNV
Yolo	SAYO 103007	3373	Cx. tarsalis	Dunnigan	50	CO2	8/9/2022	WNV
Yolo	SAYO 115008	3376	Cx. tarsalis	Woodland	50	CO2	8/9/2022	WNV
Yolo	SAYO 125011	3296	Cx. tarsalis	Woodland	18	CO2	8/5/2022	WNV

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Yolo	SAYO 135005	3288	Cx. tarsalis	Woodland	21	CO2	8/5/2022	WNV
Yolo	SAYO 135016	3256	Cx. tarsalis	Woodland	50	CO2	8/5/2022	WNV
Yolo	SAYO 135020	3300	Cx. tarsalis	Woodland	50	CO2	8/5/2022	WNV
Yolo	SAYO 135020	3302	Cx. pipiens	Woodland	41	GRVD	8/5/2022	WNV
Yolo	SAYO 136010	3404	Cx. tarsalis	Woodland	50	CO2	8/9/2022	WNV
Yolo	SAYO 136010	3406	Cx. tarsalis	Woodland	50	CO2	8/9/2022	WNV
Yolo	SAYO 145020	3410	Cx. tarsalis	Davis	13	CO2	8/9/2022	WNV
Yolo	SAYO 146006	3418	Cx. tarsalis	Davis	50	CO2	8/9/2022	WNV
Yolo	SAYO 3287	3402	Cx. tarsalis	Davis	15	CO2	8/9/2022	WNV
Yuba	SUYA 39	351	Cx. tarsalis	Marysville (Hallwood)	32	CO2	8/9/2022	WNV
Yuba	SUYA 4	347	Cx. tarsalis	Wheatland	50	CO2	8/9/2022	WNV
Yuba	SUYA 4	348	Cx. tarsalis	Wheatland	50	CO2	8/9/2022	WNV

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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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