

California Arbovirus Surveillance Bulletin #24

Week 37 Friday, September 16, 2022



WEEKLY UPDATE

Humans

West Nile virus

A total of 13 cases of West Nile virus (WNV) illness were reported this week from 7 counties: Kern (3), Madera (1), Merced (1), Stanislaus (2), Tulare (3), Ventura (2), and Yuba (1). **These are the first WNV human cases reported from Madera, Ventura, and Yuba counties this year.** In 2022, a total of 54 cases have been reported from 15 counties. Of the 54 cases, 36 (67%) had neuroinvasive illness and 4 (7%) were fatal. The median age of the cases was 61 years and 30 (56%) were male. The dates of symptom onset ranged from April 11 to August 28. In addition to the 54 WNV cases, 7 asymptomatic WNV-positive blood donors have been reported from 4 counties: Fresno (3), Kern (1), Los Angeles (2), and San Joaquin (1). At this time last year, 46 WNV cases had been reported from 17 counties.

St. Louis encephalitis virus

No human cases of St. Louis encephalitis virus (SLEV) were reported this week. In 2022, 4 SLEV human cases have been reported from 3 counties: Kern (1), Stanislaus (1), and Tulare (2). At this time last year, 0 SLEV cases had been reported.

Dead Birds

A total of 15 WNV positive dead birds were reported this week from 5 counties: Los Angeles (6), Placer (1), Sacramento (1), Ventura (1), and Yolo (6). **This is the first detection of WNV activity in Ventura County this year.** In 2022, 141 WNV positive dead birds have been reported from 20 counties. At this time last year, 182 WNV positive dead birds had been reported from 17 counties.

Mosquito Pools

West Nile virus

A total of 266 WNV positive mosquito pools were reported this week from 19 counties: Butte (4), Fresno (10), Kern (5), Kings (1), Los Angeles (63), Madera (11), Merced (1), Napa (1), Orange (1), Placer (3), Riverside (2), Sacramento (4), San Bernardino (4), San Joaquin (7), Santa Clara (2), Shasta (1), Stanislaus (12), Tulare (129), and Yolo (5). **This is the first report of WNV activity in Napa County this year.** In 2022, 2,665 WNV positive mosquito pools have been reported from 25 counties. At this time last year, 2,032 WNV positive pools had been reported from 25 counties.

St. Louis encephalitis virus

A total of 18 SLEV positive mosquito pools were reported this week from 5 counties: Fresno (2), Kern (1), Madera (4), Riverside (5), and Tulare (6). **This is the first report of SLEV activity in Kern County this year.** In 2022, 95 SLEV positive mosquito pools from 9 counties have been reported: Fresno (5), Imperial (5), Kern (1), Kings (18), Los Angeles (1), Madera (6), Riverside (48), San Joaquin (1), and Tulare (10). At this time last year, 30 SLEV positive pools had been reported from 6 counties.

Sentinel Chickens

A total of 27 WNV positive chickens were reported this week from 8 counties: Butte (4), Contra Costa (2), Los Angeles (2), Sacramento (5), Shasta (1), Sutter (7), Tehama (2), and Yuba (4). **This is the first WNV positive chicken reported from Shasta County this year.** In 2022, 111 WNV positive chickens have been reported from 13 counties. At this time last year, 67 WNV positive chickens had been reported from 9 counties.

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2021 & 2022 YTD West Nile Virus Comparisons		
	2021	2022
Total No. Dead Bird Reports	4,247	3,927
No. Positive Counties	30	30
No. Human Cases	46	54
No. Positive Dead Birds / No. Tested	182 / 1,343	141 / 1,075
No. Positive Mosquito Pools / No. Tested	2,032 / 30,011	2,665 / 31,373
No. Seroconversions / No. Tested	67 / 4,519	111 / 4,031

YTD WNV Activity by Element and County, 2022					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte	3		2	38	26
Colusa					1
Contra Costa			1	2	3
Fresno	9		2	281	
Imperial				1	
Kern	7	3		88	
Kings	3			95	
Lake			2	7	3
Los Angeles	8		31	382	9
Madera	1			119	
Merced	3		1	19	16
Napa				1	
Nevada			1		
Orange	2		1	31	
Placer			5	88	
Riverside			1	101	
Sacramento		1	33	35	6
San Bernardino			6	73	
San Joaquin				173	
San Luis Obispo		1			
Santa Clara			16	19	
Shasta			1	38	1
Solano	1		8	12	
Stanislaus	5			56	
Sutter			4	31	16
Tehama	2	1			4
Tulare	4	2	2	899	10
Ventura	2		1		
Yolo	3		22	64	3
Yuba	1		1	12	13
Totals	54	8	141	2,665	111

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TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	13	0	0
	YTD	54	4	0

Positive / Total Tested							
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA

Dead Birds	Week	15 / 50
	YTD	141 / 1,075

Chicken Sera	Week	27 / 202	0 / 202	0 / 202
	YTD	111 / 4,031	0 / 4,031	0 / 4,031

Mosquito Pools	Week	266 / 1,876	18 / 1,695	0 / 1,696	0 / 28	0 / 28	0 / 28
	YTD	2,665 / 31,373	95 / 27,977	0 / 27,919	0 / 351	0 / 351	0 / 351

POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Los Angeles	Greater Los Angeles Co VCD - SFS	Whittier	90604	American Crow	8/31/2022	WNV
Los Angeles	Los Angeles Co West VCD	Los Angeles	90210	Steller's Jay	9/12/2022	WNV
Los Angeles	San Gabriel Valley MVCD	Claremont	91711	American Crow	9/13/2022	WNV
Los Angeles	San Gabriel Valley MVCD	Claremont	91711	American Crow	9/13/2022	WNV
Los Angeles	San Gabriel Valley MVCD	Temple City	91780	Crow or Raven	9/13/2022	WNV
Los Angeles	San Gabriel Valley MVCD	West Covina	91790	American Crow	9/8/2022	WNV
Placer	Placer MVCD	Roseville	95747	Mourning Dove	9/9/2022	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	9/12/2022	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93065	American Crow	8/25/2022	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/7/2022	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/12/2022	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/12/2022	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	9/11/2022	WNV
Yolo	Sacramento-Yolo MVCD	West Sacramento	95691	American Crow	9/9/2022	WNV
Yolo	Sacramento-Yolo MVCD	West Sacramento	95691	American Crow	9/12/2022	WNV

Mosquito Pools

County	Site code	Pool #	Species	City	# in Pool	Trap type	Collected	Virus
Butte	BUCO 113	383	Cx. tarsalis	Gridley	50	CO2	9/7/2022	WNV
Butte	BUCO 123	380	Cx. tarsalis	Oroville	50	CO2	9/7/2022	WNV
Butte	BUCO 123	381	Cx. tarsalis	Oroville	50	CO2	9/7/2022	WNV
Butte	BUCO 84	387	Cx. tarsalis	Nelson	50	CO2	9/6/2022	WNV

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Fresno	CNSL 8146	121	Cx. quinquefasciatus	Fresno	50	GRVD	9/9/2022	WNV
Fresno	CNSL 8146	121	Cx. quinquefasciatus	Fresno	50	GRVD	9/9/2022	SLEV
Fresno	FRNO 112	909	Cx. quinquefasciatus	Fresno	50	GRVD	9/13/2022	WNV
Fresno	FRNO 211	917	Cx. quinquefasciatus	Kerman	48	GRVD	9/13/2022	WNV
Fresno	FRNO 271	906	Cx. quinquefasciatus	Fresno	50	GRVD	9/13/2022	WNV
Fresno	FRNO 271	907	Cx. quinquefasciatus	Fresno	47	GRVD	9/13/2022	WNV
Fresno	FRNO 279	924	Cx. quinquefasciatus	Fresno	8	GRVD	9/14/2022	WNV
Fresno	FRNO 8002	903	Cx. quinquefasciatus	Fresno	50	GRVD	9/13/2022	WNV
Fresno	FRWS 1202	337	Cx. tarsalis	Dos Palos	50	CO2	9/13/2022	WNV
Fresno	FRWS 300031	333	Cx. tarsalis	Firebaugh	25	CO2	9/13/2022	WNV
Fresno	FRWS 3205	330	Cx. tarsalis	Firebaugh	50	BGSENT	9/9/2022	WNV
Fresno	FRWS 4102	339	Cx. tarsalis	Kerman	50	CO2	9/13/2022	SLEV
Kern	DLNO 188	176	Cx. quinquefasciatus	Delano	17	BGSENT	9/9/2022	WNV
Kern	DLNO 66	171	Cx. quinquefasciatus	Delano	26	GRVD	9/2/2022	SLEV
Kern	DLNO 66	180	Cx. quinquefasciatus	Delano	24	GRVD	9/9/2022	WNV
Kern	KERN 110	433	Cx. quinquefasciatus	Bakersfield	50	CO2	9/7/2022	WNV
Kern	KERN 3029	424	Cx. tarsalis	Buttonwillow	50	CO2	9/7/2022	WNV
Kern	KERN 3030	426	Cx. quinquefasciatus	Shafter	50	CO2	9/7/2022	WNV
Kings	CNSL 5235	620	Cx. quinquefasciatus	Kingsburg	50	GRVD	9/8/2022	WNV
Los Angeles	GRLA 2021	5811	Cx. quinquefasciatus	Reseda	50	GRVD	8/30/2022	WNV
Los Angeles	GRLA 2023	5812	Cx. quinquefasciatus	Reseda	12	GRVD	8/30/2022	WNV
Los Angeles	GRLA 2032	5813	Cx. quinquefasciatus	Northridge	19	GRVD	8/30/2022	WNV
Los Angeles	GRLA 2093	746	Cx. quinquefasciatus	South Gate	35	GRVD	9/1/2022	WNV
Los Angeles	GRLA 2097	761	Cx. quinquefasciatus	La Mirada	50	GRVD	9/7/2022	WNV
Los Angeles	GRLA 2100	766	Cx. quinquefasciatus	Norwalk	29	GRVD	9/7/2022	WNV
Los Angeles	GRLA 2116	747	Cx. quinquefasciatus	Cudahy	50	GRVD	9/1/2022	WNV
Los Angeles	GRLA 2221	778	Cx. quinquefasciatus	Rowland Heights	50	GRVD	9/8/2022	WNV
Los Angeles	GRLA 2222	777	Cx. quinquefasciatus	Rowland Heights	17	GRVD	9/8/2022	WNV
Los Angeles	GRLA 2228	776	Cx. quinquefasciatus	Diamond Bar	19	GRVD	9/8/2022	WNV
Los Angeles	GRLA 2247	771	Cx. quinquefasciatus	Pico Rivera	50	GRVD	9/7/2022	WNV
Los Angeles	GRLA 2268	767	Cx. quinquefasciatus	Cerritos	52	GRVD	9/7/2022	WNV
Los Angeles	GRLA 2270	743	Cx. quinquefasciatus	Bellflower	21	GRVD	9/1/2022	WNV
Los Angeles	GRLA 2323	783	Cx. quinquefasciatus	Los Angeles	32	GRVD	9/9/2022	WNV
Los Angeles	GRLA 2325	785	Cx. quinquefasciatus	Boyle Heights	14	GRVD	9/9/2022	WNV
Los Angeles	GRLA 2346	770	Cx. quinquefasciatus	Montebello	26	GRVD	9/7/2022	WNV
Los Angeles	GRLA 2383	782	Cx. quinquefasciatus	Whittier	50	GRVD	9/8/2022	WNV
Los Angeles	GRLA 2414	5844	Cx. quinquefasciatus	Granada Hills	25	GRVD	9/7/2022	WNV
Los Angeles	GRLA 2421	5841	Cx. quinquefasciatus	Panorama City	34	GRVD	9/7/2022	WNV
Los Angeles	GRLA 2438	5853	Cx. quinquefasciatus	Chatsworth	33	GRVD	9/8/2022	WNV
Los Angeles	GRLA 2450	5832	Cx. quinquefasciatus	Glendale	18	GRVD	9/1/2022	WNV
Los Angeles	GRLA 2550	5862	Cx. quinquefasciatus	Mission Hills	45	GRVD	9/9/2022	WNV
Los Angeles	GRLA 2554	5845	Cx. quinquefasciatus	Winnetka	26	GRVD	9/8/2022	WNV
Los Angeles	GRLA 2555	5808	Cx. quinquefasciatus	Encino	31	GRVD	8/30/2022	WNV
Los Angeles	GRLA 2574	5840	Cx. quinquefasciatus	Sherman Oaks	50	GRVD	9/7/2022	WNV
Los Angeles	GRLA 2592	5826	Cx. quinquefasciatus	San Marino	50	GRVD	9/1/2022	WNV
Los Angeles	GRLA 2604	5829	Cx. quinquefasciatus	Eagle Rock	47	GRVD	9/1/2022	WNV
Los Angeles	GRLA 2635	5807	Cx. quinquefasciatus	Lake Balboa	50	GRVD	8/30/2022	WNV
Los Angeles	GRLA 2637	5842	Cx. quinquefasciatus	Van Nuys	47	GRVD	9/7/2022	WNV
Los Angeles	GRLA 2651	5837	Cx. quinquefasciatus	Encino	40	BGSENT	9/7/2022	WNV
Los Angeles	GRLA 2675	5834	Cx. quinquefasciatus	Granada Hills	21	BGSENT	9/2/2022	WNV
Los Angeles	GRLA 2724	5847	Cx. quinquefasciatus	Winnetka	38	GRVD	9/8/2022	WNV
Los Angeles	GRLA 2937	5823	Cx. quinquefasciatus	Burbank	31	GRVD	8/31/2022	WNV
Los Angeles	GRLA 2953	763	Cx. quinquefasciatus	Santa Fe Springs	50	GRVD	9/7/2022	WNV
Los Angeles	GRLA 2955	764	Cx. quinquefasciatus	Cerritos	50	GRVD	9/7/2022	WNV
Los Angeles	GRLA 2995	5846	Cx. quinquefasciatus	Woodland Hills	30	GRVD	9/8/2022	WNV
Los Angeles	GRLA 3028	5851	Cx. quinquefasciatus	West Hills	14	GRVD	9/8/2022	WNV
Los Angeles	GRLA 3040	762	Cx. quinquefasciatus	La Mirada	50	GRVD	9/7/2022	WNV
Los Angeles	GRLA 3041	765	Cx. quinquefasciatus	Artesia	50	GRVD	9/7/2022	WNV
Los Angeles	GRLA 3042	775	Cx. quinquefasciatus	Hacienda Heights	50	GRVD	9/8/2022	WNV
Los Angeles	GRLA 3044	773	Cx. quinquefasciatus	South El Monte	53	GRVD	9/8/2022	WNV
Los Angeles	GRLA 3045	781	Cx. quinquefasciatus	Whittier	49	GRVD	9/8/2022	WNV
Los Angeles	GRLA 3047	741	Cx. quinquefasciatus	Downey	50	GRVD	9/1/2022	WNV
Los Angeles	GRLA 3052	780	Cx. quinquefasciatus	La Habra Heights	50	GRVD	9/8/2022	WNV
Los Angeles	GRLA 3053	779	Cx. quinquefasciatus	Hacienda Heights	50	GRVD	9/8/2022	WNV
Los Angeles	GRLA 3070	784	Cx. quinquefasciatus	Commerce	50	GRVD	9/9/2022	WNV
Los Angeles	GRLA 3078	5818	Cx. quinquefasciatus	Los Feliz	43	GRVD	8/31/2022	WNV
Los Angeles	GRLA 3132	5830	Cx. quinquefasciatus	Eagle Rock	22	GRVD	9/1/2022	WNV
Los Angeles	GRLA 3133	5855	Cx. quinquefasciatus	San Fernando	50	GRVD	9/9/2022	WNV
Los Angeles	LACW 1048	599	Cx. quinquefasciatus	Inglewood	31	CO2	9/8/2022	WNV

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Los Angeles	LACW 1054	600	Cx. quinquefasciatus	Inglewood	19	CO2	9/8/2022	WNV
Los Angeles	SGVA 1000	1000	Cx. quinquefasciatus	Azusa	15	GRVD	9/13/2022	WNV
Los Angeles	SGVA 1006	1007	Cx. quinquefasciatus	Walnut	50	GRVD	9/13/2022	WNV
Los Angeles	SGVA 1010	1001	Cx. quinquefasciatus	Monrovia	37	GRVD	9/13/2022	WNV
Los Angeles	SGVA 1270	984	Cx. quinquefasciatus	Arcadia	50	GRVD	9/9/2022	WNV
Los Angeles	SGVA 1270	985	Cx. quinquefasciatus	Arcadia	43	GRVD	9/9/2022	WNV
Los Angeles	SGVA 1270	989	Cx. quinquefasciatus	Arcadia	42	GRVD	9/9/2022	WNV
Los Angeles	SGVA 285	1005	Cx. quinquefasciatus	Baldwin Park	20	GRVD	9/13/2022	WNV
Los Angeles	SGVA 450	1004	Cx. quinquefasciatus	La Puente	50	GRVD	9/13/2022	WNV
Los Angeles	SGVA 688	1015	Cx. quinquefasciatus	Alhambra	50	GRVD	9/13/2022	WNV
Los Angeles	SGVA 695	1014	Cx. quinquefasciatus	Rosemead	50	GRVD	9/13/2022	WNV
Los Angeles	SGVA 969	1023	Cx. tarsalis	Arcadia	1	GRVD	9/15/2022	WNV
Los Angeles	SGVA 996	1018	Cx. quinquefasciatus	South Pasadena	50	GRVD	9/13/2022	WNV
Madera	MADR 1057	662	Cx. quinquefasciatus	Chowchilla	50	CO2	9/8/2022	WNV
Madera	MADR 195	660	Cx. tarsalis	Madera	50	CO2	9/8/2022	WNV
Madera	MADR 195	661	Cx. tarsalis	Madera	50	CO2	9/8/2022	WNV
Madera	MADR 208	664	Cx. quinquefasciatus	Madera	50	CO2	9/8/2022	SLEV
Madera	MADR 227	669	Cx. tarsalis	Madera	36	CO2	9/9/2022	WNV
Madera	MADR 259	671	Cx. quinquefasciatus	Madera	32	CO2	9/9/2022	SLEV
Madera	MADR 259	672	Cx. tarsalis	Madera	50	CO2	9/9/2022	WNV
Madera	MADR 298	655	Cx. tarsalis	Chowchilla	25	CO2	9/8/2022	WNV
Madera	MADR 299	675	Cx. tarsalis	Chowchilla	50	CO2	9/8/2022	WNV
Madera	MADR 299	676	Cx. tarsalis	Chowchilla	50	CO2	9/8/2022	WNV
Madera	MADR 300	677	Cx. quinquefasciatus	Chowchilla	50	CO2	9/8/2022	WNV
Madera	MADR 3334	666	Cx. quinquefasciatus	Madera	29	CO2	9/9/2022	SLEV
Madera	MADR 688	645	Cx. tarsalis	Madera	50	CO2	9/7/2022	WNV
Madera	MADR 704	659	Cx. tarsalis	Madera	50	CO2	9/8/2022	SLEV
Madera	MADR 85	651	Cx. quinquefasciatus	Madera	38	CO2	9/7/2022	WNV
Merced	MERC 724453	353	Cx. pipiens	Merced	33	BGSENT	9/13/2022	WNV
Napa	NAPA 2827	83	Cx. tarsalis	Napa	13	CO2	9/14/2022	WNV
Orange	ORCO 238	3543	Cx. quinquefasciatus	Anaheim	32	GRVD	9/15/2022	WNV
Placer	PLCR 139	1626	Cx. tarsalis	Roseville	10	CO2	9/13/2022	WNV
Placer	PLCR 191373	1643	Cx. tarsalis	Roseville	50	CO2	9/13/2022	WNV
Placer	PLCR 191373	1644	Cx. tarsalis	Roseville	12	CO2	9/13/2022	WNV
Riverside	COAV 0	4979	Cx. tarsalis	Indio	50	CO2	9/9/2022	SLEV
Riverside	COAV 0	4980	Cx. tarsalis	Indio	50	CO2	9/9/2022	WNV
Riverside	COAV 34	5154	Cx. tarsalis	Mecca	50	CO2	9/15/2022	SLEV
Riverside	COAV 35	4965	Cx. tarsalis	Mecca	50	CO2	9/13/2022	SLEV
Riverside	COAV 35	5158	Cx. quinquefasciatus	Mecca	25	CO2	9/15/2022	SLEV
Riverside	COAV 45	4987	Cx. tarsalis	Mecca	50	CO2	9/9/2022	WNV
Riverside	COAV 45	4988	Cx. tarsalis	Mecca	50	CO2	9/9/2022	SLEV
Sacramento	SAYO 213048	4626	Cx. pipiens	Sacramento	5	GRVD	9/13/2022	WNV
Sacramento	SAYO 214006	4523	Cx. pipiens	Rancho Cordova	14	GRVD	9/9/2022	WNV
Sacramento	SAYO 242013	4448	Cx. tarsalis	Hood	42	CO2	9/9/2022	WNV
Sacramento	SAYO 254011	4427	Cx. tarsalis	Galt	7	CO2	9/9/2022	WNV
San Bernardino	WVAL 20	1423	Cx. quinquefasciatus	Rancho Cucamonga	7	CO2	9/13/2022	WNV
San Bernardino	WVAL 4505	1446	Cx. quinquefasciatus	Ontario	6	GRVD	9/14/2022	WNV
San Bernardino	WVAL 4568	1454	Cx. quinquefasciatus	Upland	13	GRVD	9/15/2022	WNV
San Bernardino	WVAL 5564	1433	Cx. quinquefasciatus	Upland	10	BGSENT	9/13/2022	WNV
San Joaquin	SJCM 8010	1890	Cx. tarsalis	Ripon	25	CO2	9/13/2022	WNV
San Joaquin	SJCM 8022	1914	Cx. pipiens	Holt	19	CO2	9/13/2022	WNV
San Joaquin	SJCM 8203	1929	Cx. tarsalis	Lodi	27	CO2	9/13/2022	WNV
San Joaquin	SJCM 8204	1894	Cx. tarsalis	Stockton	35	CO2	9/13/2022	WNV
San Joaquin	SJCM 8208	1942	Cx. tarsalis	Lodi	48	CO2	9/15/2022	WNV
San Joaquin	SJCM 8218	1952	Cx. pipiens	Escalon	22	CO2	9/15/2022	WNV
San Joaquin	SJCM 8253	1948	Cx. tarsalis	Linden	46	CO2	9/15/2022	WNV
Santa Clara	STCL 31760	3346	Cx. pipiens	Mountain View	6	GRVD	9/13/2022	WNV
Santa Clara	STCL 32190	3359	Cx. tarsalis	Milpitas	50	CO2-EVS	9/14/2022	WNV
Shasta	SHAS 2015	539	Cx. tarsalis	Redding	39	BGCOUNTER	9/14/2022	WNV
Stanislaus	EAST 2002	22169	Cx. pipiens	Modesto	50	GRVD	9/8/2022	WNV
Stanislaus	EAST 2014	22167	Cx. pipiens	Modesto	17	GRVD	9/8/2022	WNV
Stanislaus	EAST 2023	22170	Cx. pipiens	Modesto	45	GRVD	9/8/2022	WNV
Stanislaus	TRLK 1305	823	Cx. pipiens	Patterson	35	CO2	9/13/2022	WNV
Stanislaus	TRLK 1305	824	Cx. tarsalis	Patterson	49	CO2	9/13/2022	WNV
Stanislaus	TRLK 1615	776	Cx. pipiens	Modesto	50	CO2	9/13/2022	WNV
Stanislaus	TRLK 1615	790	Cx. tarsalis	Modesto	50	CO2	9/13/2022	WNV
Stanislaus	TRLK 319	808	Cx. tarsalis	Newman	50	CO2	9/13/2022	WNV
Stanislaus	TRLK 322	837	Cx. tarsalis	Vernalis	50	CO2	9/13/2022	WNV
Stanislaus	TRLK 322	838	Cx. tarsalis	Vernalis	50	CO2	9/13/2022	WNV

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Stanislaus	TRLK 322	839	Cx. tarsalis	Vernalis	50	CO2	9/13/2022	WNV
Stanislaus	TRLK 424	794	Cx. tarsalis	Patterson	50	CO2	9/13/2022	WNV
Tulare	DLNO 155	184	Cx. quinquefasciatus	Earlimart	34	GRVD	9/13/2022	SLEV
Tulare	DLTA 64163	3122	Cx. quinquefasciatus	Dinuba	15	GRVD	9/1/2022	WNV
Tulare	DLTA 64163	3341	Cx. quinquefasciatus	Dinuba	50	BGSENT	9/8/2022	WNV
Tulare	DLTA 751821	3271	Cx. quinquefasciatus	Monson	50	CO2	9/7/2022	WNV
Tulare	DLTA 751821	3276	Cx. quinquefasciatus	Monson	50	CO2	9/7/2022	WNV
Tulare	DLTA 752914	3215	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/7/2022	WNV
Tulare	DLTA 752914	3217	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/7/2022	WNV
Tulare	DLTA 752914	3224	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/7/2022	WNV
Tulare	DLTA 752914	3225	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/7/2022	WNV
Tulare	DLTA 752914	3228	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/7/2022	WNV
Tulare	DLTA 752914	3230	Cx. quinquefasciatus	Patterson Tract	50	CO2	9/7/2022	WNV
Tulare	DLTA 8324	3181	Cx. quinquefasciatus	Goshen	39	BGSENT	9/2/2022	WNV
Tulare	DLTA 8324	3404	Cx. quinquefasciatus	Goshen	42	BGSENT	9/9/2022	WNV
Tulare	DLTA 8324	3406	Cx. quinquefasciatus	Goshen	50	BGSENT	9/9/2022	WNV
Tulare	DLTA 8324	3410	Cx. tarsalis	Goshen	41	BGSENT	9/9/2022	WNV
Tulare	DLTA 8413	3200	Cx. quinquefasciatus	Visalia	50	BGSENT	9/7/2022	WNV
Tulare	DLTA 8413	3204	Cx. quinquefasciatus	Visalia	50	BGSENT	9/7/2022	WNV
Tulare	DLTA 8413	3254	Cx. quinquefasciatus	Visalia	50	BGSENT	9/7/2022	WNV
Tulare	DLTA 8413	3255	Cx. quinquefasciatus	Visalia	50	BGSENT	9/7/2022	SLEV
Tulare	DLTA 8413	3256	Cx. quinquefasciatus	Visalia	50	BGSENT	9/7/2022	WNV
Tulare	DLTA 8414	3358	Cx. quinquefasciatus	Visalia	50	BGSENT	9/9/2022	WNV
Tulare	DLTA 841532	3169	Cx. quinquefasciatus	Visalia	48	CO2	9/2/2022	WNV
Tulare	DLTA 841532	3170	Cx. quinquefasciatus	Visalia	10	CO2	9/2/2022	WNV
Tulare	DLTA 841533	3109	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841533	3110	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841533	3111	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841533	3112	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841533	3113	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841533	3114	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841533	3115	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841533	3116	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841533	3118	Cx. tarsalis	Visalia	21	CO2	8/31/2022	WNV
Tulare	DLTA 841534	3055	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841534	3056	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841534	3057	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841534	3058	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841534	3060	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841534	3061	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841534	3062	Cx. quinquefasciatus	Visalia	20	CO2	8/31/2022	WNV
Tulare	DLTA 841534	3063	Cx. tarsalis	Visalia	30	CO2	8/31/2022	WNV
Tulare	DLTA 841534	3154	Cx. quinquefasciatus	Visalia	50	CO2	9/2/2022	WNV
Tulare	DLTA 841534	3155	Cx. quinquefasciatus	Visalia	50	CO2	9/2/2022	WNV
Tulare	DLTA 841534	3156	Cx. quinquefasciatus	Visalia	50	CO2	9/2/2022	WNV
Tulare	DLTA 841534	3157	Cx. quinquefasciatus	Visalia	50	CO2	9/2/2022	WNV
Tulare	DLTA 841534	3158	Cx. quinquefasciatus	Visalia	50	CO2	9/2/2022	WNV
Tulare	DLTA 841534	3159	Cx. quinquefasciatus	Visalia	50	CO2	9/2/2022	WNV
Tulare	DLTA 841534	3160	Cx. quinquefasciatus	Visalia	50	CO2	9/2/2022	WNV
Tulare	DLTA 841534	3161	Cx. quinquefasciatus	Visalia	50	CO2	9/2/2022	WNV
Tulare	DLTA 841534	3162	Cx. quinquefasciatus	Visalia	50	CO2	9/2/2022	WNV
Tulare	DLTA 841534	3163	Cx. quinquefasciatus	Visalia	50	CO2	9/2/2022	WNV
Tulare	DLTA 841534	3164	Cx. quinquefasciatus	Visalia	50	CO2	9/2/2022	WNV
Tulare	DLTA 841534	3165	Cx. quinquefasciatus	Visalia	38	CO2	9/2/2022	WNV
Tulare	DLTA 841621	3064	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841621	3066	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841621	3068	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841621	3070	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841621	3074	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841621	3075	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841621	3081	Cx. quinquefasciatus	Visalia	48	CO2	8/31/2022	WNV
Tulare	DLTA 841621	3083	Cx. tarsalis	Visalia	19	CO2	8/31/2022	WNV
Tulare	DLTA 841621	3188	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841621	3189	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841621	3189	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	SLEV
Tulare	DLTA 841621	3190	Cx. quinquefasciatus	Visalia	49	CO2	9/7/2022	WNV
Tulare	DLTA 841621	3190	Cx. quinquefasciatus	Visalia	49	CO2	9/7/2022	SLEV
Tulare	DLTA 841632	3084	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3085	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV

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Tulare	DLTA 841632	3086	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3087	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3088	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3089	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3090	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3091	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3093	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3094	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3095	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3096	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3097	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3099	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3100	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3101	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3103	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3104	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3105	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3106	Cx. quinquefasciatus	Visalia	50	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3108	Cx. tarsalis	Visalia	11	CO2	8/31/2022	WNV
Tulare	DLTA 841632	3294	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841632	3295	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841632	3296	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841632	3297	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841632	3298	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841632	3299	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841632	3300	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841632	3301	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841632	3302	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841632	3303	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841632	3304	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841632	3305	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841632	3306	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841632	3307	Cx. quinquefasciatus	Visalia	27	CO2	9/7/2022	WNV
Tulare	DLTA 841642	3172	Cx. quinquefasciatus	Visalia	50	CO2	9/2/2022	WNV
Tulare	DLTA 841642	3173	Cx. quinquefasciatus	Visalia	50	CO2	9/2/2022	WNV
Tulare	DLTA 841642	3174	Cx. quinquefasciatus	Visalia	50	CO2	9/2/2022	WNV
Tulare	DLTA 841642	3175	Cx. quinquefasciatus	Visalia	15	CO2	9/2/2022	WNV
Tulare	DLTA 841642	3290	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841642	3291	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 841642	3293	Cx. quinquefasciatus	Visalia	50	CO2	9/7/2022	WNV
Tulare	DLTA 8422	3236	Cx. quinquefasciatus	Goshen	50	BGSENT	9/7/2022	WNV
Tulare	DLTA 8422	3241	Cx. quinquefasciatus	Goshen	50	BGSENT	9/7/2022	WNV
Tulare	DLTA 8422	3248	Cx. quinquefasciatus	Goshen	46	BGSENT	9/7/2022	WNV
Tulare	DLTA 8422	3352	Cx. quinquefasciatus	Goshen	50	BGSENT	9/9/2022	WNV
Tulare	DLTA 8422	3353	Cx. quinquefasciatus	Goshen	50	BGSENT	9/9/2022	WNV
Tulare	DLTA 8425	3136	Cx. quinquefasciatus	Visalia	14	BGSENT	9/1/2022	WNV
Tulare	DLTA 84253	3125	Cx. quinquefasciatus	Visalia	19	BGSENT	9/1/2022	WNV
Tulare	DLTA 8427	3167	Cx. quinquefasciatus	Visalia	12	BGSENT	9/2/2022	WNV
Tulare	DLTA 8427	3327	Cx. quinquefasciatus	Visalia	43	BGSENT	9/8/2022	WNV
Tulare	DLTA 843341	3166	Cx. quinquefasciatus	Visalia	28	CO2	9/2/2022	WNV
Tulare	DLTA 843341	3184	Cx. quinquefasciatus	Visalia	49	CO2	9/7/2022	WNV
Tulare	DLTA 843341	3185	Cx. tarsalis	Visalia	20	CO2	9/7/2022	WNV
Tulare	DLTA 84341	3320	Cx. quinquefasciatus	Visalia	21	CO2	9/8/2022	WNV
Tulare	DLTA 851013	3321	Cx. quinquefasciatus	Visalia	50	CO2	9/8/2022	WNV
Tulare	DLTA 851013	3323	Cx. quinquefasciatus	Visalia	50	CO2	9/8/2022	WNV
Tulare	DLTA 8514	3343	Cx. quinquefasciatus	Visalia	50	BGSENT	9/8/2022	WNV
Tulare	DLTA 851432	3317	Cx. quinquefasciatus	Visalia	30	CO2	9/8/2022	WNV
Tulare	DLTA 950924	3176	Cx. quinquefasciatus	Visalia	50	CO2	9/2/2022	WNV
Tulare	DLTA 950924	3177	Cx. quinquefasciatus	Visalia	27	CO2	9/2/2022	WNV
Tulare	DLTA 950924	3192	Cx. quinquefasciatus	Visalia	29	CO2	9/7/2022	WNV
Tulare	TLRE 192425	87	Cx. quinquefasciatus	Trulare	50	GRVD	8/31/2022	WNV
Tulare	TLRE 192434	88	Cx. quinquefasciatus	Tulare	36	GRVD	8/31/2022	WNV
Tulare	TLRE 192436	97	Cx. quinquefasciatus	Tulare	40	GRVD	9/1/2022	WNV
Tulare	TLRE 192518	103	Cx. quinquefasciatus	Visalia	21	GRVD	9/13/2022	WNV
Tulare	TLRE 202410	90	Cx. quinquefasciatus	Tulare	50	GRVD	8/31/2022	SLEV
Tulare	TLRE 202412	86	Cx. quinquefasciatus	Tulare	37	GRVD	8/31/2022	WNV
Tulare	TLRE 202506	94	Cx. quinquefasciatus	Tulare	29	GRVD	9/1/2022	WNV
Tulare	TLRE 202506	94	Cx. quinquefasciatus	Tulare	29	GRVD	9/1/2022	SLEV
Yolo	SAYO 125021	4483	Cx. pipiens	Woodland	9	CO2	9/9/2022	WNV

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Yolo	SAYO 125021	4485	Cx. pipiens	Woodland	13	GRVD	9/9/2022	WNV
Yolo	SAYO 136010	4611	Cx. tarsalis	Woodland	50	CO2	9/13/2022	WNV
Yolo	SAYO 136010	4612	Cx. tarsalis	Woodland	50	CO2	9/13/2022	WNV
Yolo	SAYO 145010	4599	Cx. tarsalis	Davis	8	CO2	9/13/2022	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Butte	BUCO 000001	Chico	9/6/2022	WNV	1602			
Butte	BUCO 000003	Oroville	9/6/2022	WNV	1617	1618		
Butte	BUCO 000005	Honcut	9/6/2022	WNV	1627			
Contra Costa	CNTR 008152	Knightsen	9/6/2022	WNV	1056	1061		
Los Angeles	LONG 000004	Long Beach	9/6/2022	WNV	1133	1136		
Sacramento	SAYO 203023	Elverta	9/12/2022	WNV	1264			
Sacramento	SAYO 261013	Isleton	8/25/2022	WNV	1250	1251	1252	1253
Shasta	SHAS 005038	Shasta	9/6/2022	WNV	1354			
Sutter	SUYA 000015	Robbins	9/8/2022	WNV	1445			
Sutter	SUYA 000030	Live Oak	9/8/2022	WNV	1422	1423	1425	
Sutter	SUYA 000084	Yuba City	9/8/2022	WNV	1401	1404	1405	
Tehama	TEHA 000001	Red Bluff	9/7/2022	WNV	1486			
Tehama	TEHA 000100	Corning	9/7/2022	WNV	1494			
Yuba	SUYA 000010	Olivehurst	9/8/2022	WNV	1408	1413	1414	
Yuba	SUYA 000007	Marysville	9/8/2022	WNV	1415			

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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>.

Prepared by the Vector-Borne Disease Section (Infectious Diseases Branch), California Department of Public Health, 850 Marina Bay Parkway, Richmond, CA 94804. Questions concerning this bulletin should be addressed to Hannah Romo: Hannah.romo@cdph.ca.gov