

California Arbovirus Surveillance Bulletin #22

Week 35 Friday, September 2, 2022



WEEKLY UPDATE

Humans

West Nile virus

A total of 11 cases of West Nile virus (WNV) illness were reported this week from 4 counties: Fresno (2), Los Angeles (7), Merced (1), and Yolo (1). **This is the first WNV case reported from Merced County this year.** In 2022, a total of 35 cases have been reported from 12 counties. Of the 35 cases, 23 (66%) had neuroinvasive illness and 3 (8%) were fatal. The median age of the cases was 59 years and 24 (69%) were male. The dates of symptom onset ranged from April 11 to August 19. In addition to the 35 WNV cases, 5 asymptomatic WNV-positive blood donors have been reported from 3 counties: Fresno (3), Kern (1), and Los Angeles (1). At this time last year, 32 WNV cases had been reported from 12 counties.

St. Louis encephalitis virus

A single (1) human case of St. Louis encephalitis virus (SLEV) was reported this week from Kern County; **this is the first SLEV case reported from Kern County this year.** 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 21 WNV positive dead birds were reported this week from 9 counties: Los Angeles (2), Placer (1), Sacramento (2), San Bernardino (1), Santa Clara (5), Shasta (1), Solano (4), Yolo (4), and Yuba (1). **These are the first WNV positive dead birds from Shasta and Yuba counties this year.** In 2022, 113 WNV positive dead birds have been reported from 19 counties. At this time last year, 160 WNV positive dead birds had been reported from 16 counties.

Mosquito Pools

West Nile virus

A total of 302 WNV positive mosquito pools were reported this week from 18 counties: Butte (5), Fresno (24), Kings (31), Lake (1), Los Angeles (63), Madera (26), Merced (2), Orange (2), Placer (3), Riverside (14), Sacramento (2), San Bernardino (11), San Joaquin (20), Santa Clara (2), Shasta (6), Stanislaus (12), Tulare (69), and Yolo (9). In 2022, 2,136 WNV positive mosquito pools have been reported from 24 counties. At this time last year, 1,646 WNV positive pools had been reported from 24 counties.

St. Louis encephalitis virus

A total of 23 SLEV positive mosquito pools were reported this week from 5 counties: Imperial (2), Kings (13), Los Angeles (1), Madera (1), and Riverside (6). **This is the first report of SLEV activity in Los Angeles and Madera counties this year.** In 2022, 69 SLEV positive mosquito pools from 6 counties have been reported: Imperial (5), Kings (18), Los Angeles (1), Madera (1), Riverside (41), and Tulare (3). At this time last year, 19 SLEV positive pools had been reported from 3 counties.

Sentinel Chickens

A total of 26 WNV positive chickens were reported this week from 6 counties: Butte (5), Contra Costa (1), Merced (10), Sutter (5), Tehama (1), and Yuba (4). **This is the first WNV positive chicken reported from Contra Costa County this year.** In 2022, 78 WNV positive chickens have been reported from 11 counties. At this time last year, 45 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	4,041	3,644
No. Positive Counties	29	27
No. Human Cases	32	35
No. Positive Dead Birds / No. Tested	160 / 1,270	113 / 984
No. Positive Mosquito Pools / No. Tested	1,646 / 25,963	2,136 / 27,682
No. Seroconversions / No. Tested	45 / 4,104	78 / 3,691

YTD WNV Activity by Element and County, 2022					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte	2		2	32	22
Colusa					1
Contra Costa			1	2	1
Fresno	7		2	250	
Imperial				1	
Kern	4	2		69	
Kings	3			94	
Lake			1	7	
Los Angeles	8		24	299	4
Madera				95	
Merced	1		1	12	16
Nevada			1		
Orange	1		1	30	
Placer			3	69	
Riverside			1	95	
Sacramento		1	27	21	1
San Bernardino			6	65	
San Joaquin				157	
Santa Clara			15	16	
Shasta			1	36	
Solano	1		8	11	
Stanislaus	3			34	
Sutter			4	30	9
Tehama	1	1			2
Tulare	1	1	2	648	10
Yolo	3		12	51	3
Yuba			1	12	9
Totals	35	5	113	2,136	78

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TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	11	1	0
	YTD	35	4	0

Positive / Total Tested						
	WNV	SLEV	WEEV	CHIK	DENV	ZIKA

Dead Birds	Week	21 / 56
	YTD	113 / 984

Chicken Sera	Week	26 / 215	0 / 215	0 / 215
	YTD	78 / 3,691	0 / 3,691	0 / 3,691

Mosquito Pools	Week	302 / 1,326	23 / 1,291	0 / 1,277	0 / 88	0 / 88	0 / 88
	YTD	2,136 / 27,682	69 / 24,468	0 / 24,410	0 / 323	0 / 323	0 / 323

POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Los Angeles	91401	American Crow	8/23/2022	WNV
Los Angeles	Los Angeles Co West VCD	Los Angeles	90036	American Crow	8/24/2022	WNV
Placer	Placer MVCD	Meadow Vista	95722	American Crow	8/24/2022	WNV
Sacramento	Sacramento-Yolo MVCD	Antelope	95843	California Scrub-Jay	8/29/2022	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	California Scrub-Jay	8/24/2022	WNV
San Bernardino	West Valley MVCD	Chino	91710	American Crow	9/2/2022	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	8/27/2022	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	8/27/2022	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95123	House Sparrow	8/28/2022	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95129	Song Sparrow	8/25/2022	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	House Finch	8/25/2022	WNV
Shasta	Shasta MVCD	Redding	96003	California Scrub-Jay	8/26/2022	WNV
Solano	Sacramento-Yolo MVCD	Dixon	95618	American Crow	8/26/2022	WNV
Solano	Solano Co MAD	Dixon	95620	American Crow	8/29/2022	WNV
Solano	Solano Co MAD	Dixon	95620	American Crow	8/29/2022	WNV
Solano	Solano Co MAD	Dixon	95620	American Crow	8/29/2022	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/27/2022	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/28/2022	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Black Phoebe	8/26/2022	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	California Scrub-Jay	8/25/2022	WNV
Yuba	Sutter-Yuba MVCD	Marysville	95901	California Scrub-Jay	8/25/2022	WNV

Mosquito Pools

County	Site code	Pool #	Species	City	# in Pool	Trap type	Collected	Virus
Butte	BUCO 113	356	Cx. tarsalis	Gridley	50	CO2	8/22/2022	WNV
Butte	BUCO 115	365	Cx. tarsalis	Nelson	30	CO2	8/24/2022	WNV
Butte	BUCO 123	357	Cx. tarsalis	Oroville	50	CO2	8/22/2022	WNV

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Butte	BUCO 123	358	Cx. tarsalis	Oroville	50	CO2	8/22/2022	WNV
Butte	BUCO 36	361	Cx. tarsalis	Gridley	50	CO2	8/23/2022	WNV
Fresno	CNSL 6355	611	Cx. quinquefasciatus	Caruthers	50	GRVD	8/26/2022	WNV
Fresno	CNSL 8163	115	Cx. quinquefasciatus	Fresno	50	GRVD	8/23/2022	WNV
Fresno	CNSL 9213	606	Cx. quinquefasciatus	Clovis	14	BGSENT	8/24/2022	WNV
Fresno	FRNO 112	795	Cx. quinquefasciatus	Fresno	50	GRVD	8/30/2022	WNV
Fresno	FRNO 112	796	Cx. quinquefasciatus	Fresno	50	GRVD	8/30/2022	WNV
Fresno	FRNO 112	797	Cx. quinquefasciatus	Fresno	50	GRVD	8/30/2022	WNV
Fresno	FRNO 112	798	Cx. quinquefasciatus	Fresno	50	GRVD	8/30/2022	WNV
Fresno	FRNO 112	799	Cx. quinquefasciatus	Fresno	50	GRVD	8/30/2022	WNV
Fresno	FRNO 162	802	Cx. quinquefasciatus	Fresno	50	GRVD	8/30/2022	WNV
Fresno	FRNO 187	794	Cx. quinquefasciatus	Biola	11	GRVD	8/30/2022	WNV
Fresno	FRNO 214	801	Cx. quinquefasciatus	Kerman	39	GRVD	8/30/2022	WNV
Fresno	FRNO 215	805	Cx. quinquefasciatus	Kerman	14	GRVD	8/30/2022	WNV
Fresno	FRNO 271	788	Cx. quinquefasciatus	Fresno	50	GRVD	8/30/2022	WNV
Fresno	FRNO 8	807	Cx. quinquefasciatus	Fresno	28	GRVD	8/30/2022	WNV
Fresno	FRNO 8005	773	Cx. quinquefasciatus	Fresno	25	GRVD	8/25/2022	WNV
Fresno	FRNO 8007	772	Cx. quinquefasciatus	Fresno	46	GRVD	8/25/2022	WNV
Fresno	FRNO 8008	791	Cx. quinquefasciatus	Biola	39	GRVD	8/30/2022	WNV
Fresno	FRNO 88	820	Cx. quinquefasciatus	Fresno	39	GRVD	8/31/2022	WNV
Fresno	FRWS 1101	293	Cx. tarsalis	Dos Palos	50	CO2	8/30/2022	WNV
Fresno	FRWS 3104	300	Cx. tarsalis	Firebaugh	34	CO2	8/30/2022	WNV
Fresno	FRWS 4301	286	Cx. quinquefasciatus	Cantua Creek	50	BGSENT	8/25/2022	WNV
Fresno	FRWS 5101	303	Cx. tarsalis	Mendota	50	CO2	8/30/2022	WNV
Fresno	FRWS 5110	301	Cx. tarsalis	Tranquillity	50	CO2	8/30/2022	WNV
Fresno	FRWS 5110	302	Cx. tarsalis	Tranquillity	47	CO2	8/30/2022	WNV
Imperial	IMPR 139	138	Cx. quinquefasciatus	El Centro	8	BGSENT	8/30/2022	SLEV
Imperial	IMPR 40	133	Cx. tarsalis	Imperial	15	BGSENT	8/30/2022	SLEV
Kings	CNSL 6356	612	Cx. quinquefasciatus	Laton	50	GRVD	8/26/2022	WNV
Kings	KNGS 3062	215	Cx. tarsalis	Lemoore	50	CO2	8/25/2022	WNV
Kings	KNGS 3062	215	Cx. tarsalis	Lemoore	50	CO2	8/25/2022	SLEV
Kings	KNGS 3062	217	Cx. tarsalis	Lemoore	50	CO2	8/25/2022	WNV
Kings	KNGS 3062	217	Cx. tarsalis	Lemoore	50	CO2	8/25/2022	SLEV
Kings	KNGS 3062	218	Cx. tarsalis	Lemoore	50	CO2	8/25/2022	WNV
Kings	KNGS 3062	218	Cx. tarsalis	Lemoore	50	CO2	8/25/2022	SLEV
Kings	KNGS 3078	187	Cx. tarsalis	Lemoore	50	CO2	8/23/2022	WNV
Kings	KNGS 3078	188	Cx. tarsalis	Lemoore	50	CO2	8/23/2022	WNV
Kings	KNGS 3078	188	Cx. tarsalis	Lemoore	50	CO2	8/23/2022	SLEV
Kings	KNGS 3078	189	Cx. tarsalis	Lemoore	50	CO2	8/23/2022	SLEV
Kings	KNGS 3100	214	Cx. tarsalis	Hanford	16	CO2	8/25/2022	WNV
Kings	KNGS 3108	197	Cx. tarsalis	Island	50	CO2	8/23/2022	WNV
Kings	KNGS 3108	197	Cx. tarsalis	Island	50	CO2	8/23/2022	SLEV
Kings	KNGS 3108	198	Cx. tarsalis	Island	50	CO2	8/23/2022	WNV
Kings	KNGS 3108	198	Cx. tarsalis	Island	50	CO2	8/23/2022	SLEV
Kings	KNGS 3108	199	Cx. tarsalis	Island	50	CO2	8/23/2022	WNV
Kings	KNGS 3108	200	Cx. tarsalis	Island	50	CO2	8/23/2022	WNV
Kings	KNGS 3122	209	Cx. tarsalis	Hanford	50	CO2	8/24/2022	WNV
Kings	KNGS 3122	209	Cx. tarsalis	Hanford	50	CO2	8/24/2022	SLEV
Kings	KNGS 3122	210	Cx. tarsalis	Hanford	26	CO2	8/24/2022	WNV
Kings	KNGS 3126	219	Cx. tarsalis	Corcoran	50	CO2	8/26/2022	WNV
Kings	KNGS 3126	221	Cx. tarsalis	Corcoran	50	CO2	8/26/2022	WNV
Kings	KNGS 3126	222	Cx. tarsalis	Corcoran	50	CO2	8/26/2022	WNV
Kings	KNGS 3127	223	Cx. tarsalis	Corcoran	50	CO2	8/26/2022	WNV
Kings	KNGS 3127	223	Cx. tarsalis	Corcoran	50	CO2	8/26/2022	SLEV
Kings	KNGS 3127	224	Cx. tarsalis	Corcoran	50	CO2	8/26/2022	WNV
Kings	KNGS 3127	225	Cx. tarsalis	Corcoran	50	CO2	8/26/2022	WNV
Kings	KNGS 3127	226	Cx. tarsalis	Corcoran	50	CO2	8/26/2022	WNV
Kings	KNGS 3127	227	Cx. pipiens	Corcoran	50	CO2	8/26/2022	WNV
Kings	KNGS 3127	227	Cx. pipiens	Corcoran	50	CO2	8/26/2022	SLEV
Kings	KNGS 3135	212	Cx. tarsalis	Hanford	19	CO2	8/25/2022	WNV
Kings	KNGS 3136	228	Cx. tarsalis	Hanford	50	CO2	8/26/2022	WNV
Kings	KNGS 3136	229	Cx. tarsalis	Hanford	50	CO2	8/26/2022	WNV
Kings	KNGS 3136	232	Cx. pipiens	Hanford	34	CO2	8/26/2022	WNV
Kings	KNGS 4009	211	Cx. tarsalis	Armona	50	CO2	8/24/2022	WNV
Kings	KNGS 4009	211	Cx. tarsalis	Armona	50	CO2	8/24/2022	SLEV
Kings	KNGS 8014	196	Cx. tarsalis	Laton	25	CO2	8/23/2022	WNV
Kings	KNGS 8022	191	Cx. tarsalis	Lemoore	50	CO2	8/23/2022	WNV
Kings	KNGS 8022	192	Cx. tarsalis	Lemoore	50	CO2	8/23/2022	WNV
Kings	KNGS 8022	193	Cx. tarsalis	Lemoore	50	CO2	8/23/2022	SLEV

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Kings	KNGS 8022	194	Cx. tarsalis	Lemoore	50	CO2	8/23/2022	WNV
Kings	KNGS 8022	195	Cx. pipiens	Lemoore	18	CO2	8/23/2022	WNV
Kings	KNGS 8022	195	Cx. pipiens	Lemoore	18	CO2	8/23/2022	SLEV
Lake	LAKE 131	360	Cx. tarsalis	Lower Lake	10	CO2	8/30/2022	WNV
Los Angeles	GRLA 2017	5788	Cx. quinquefasciatus	Studio City	50	GRVD	8/25/2022	WNV
Los Angeles	GRLA 2029	5779	Cx. quinquefasciatus	Canoga Park	22	GRVD	8/24/2022	WNV
Los Angeles	GRLA 2030	5780	Cx. quinquefasciatus	West Hills	30	GRVD	8/24/2022	WNV
Los Angeles	GRLA 2097	713	Cx. quinquefasciatus	La Mirada	21	BGSENT	8/23/2022	WNV
Los Angeles	GRLA 2101	710	Cx. quinquefasciatus	Santa Fe Springs	20	GRVD	8/23/2022	WNV
Los Angeles	GRLA 2166	707	Cx. quinquefasciatus	Montebello	50	GRVD	8/23/2022	WNV
Los Angeles	GRLA 2194	715	Cx. quinquefasciatus	South El Monte	50	GRVD	8/24/2022	WNV
Los Angeles	GRLA 2247	709	Cx. quinquefasciatus	Pico Rivera	50	GRVD	8/23/2022	WNV
Los Angeles	GRLA 2321	737	Cx. quinquefasciatus	Carson	50	GRVD	8/26/2022	WNV
Los Angeles	GRLA 2383	726	Cx. quinquefasciatus	Whittier	50	GRVD	8/24/2022	WNV
Los Angeles	GRLA 2414	5774	Cx. quinquefasciatus	Granada Hills	50	GRVD	8/23/2022	WNV
Los Angeles	GRLA 2419	5771	Cx. quinquefasciatus	Panorama City	50	GRVD	8/23/2022	WNV
Los Angeles	GRLA 2421	5772	Cx. quinquefasciatus	Panorama City	50	GRVD	8/23/2022	WNV
Los Angeles	GRLA 2478	5803	Cx. quinquefasciatus	Sunland	50	GRVD	8/26/2022	WNV
Los Angeles	GRLA 2550	5806	Cx. quinquefasciatus	Mission Hills	50	GRVD	8/26/2022	WNV
Los Angeles	GRLA 2554	5777	Cx. quinquefasciatus	Winnetka	50	GRVD	8/24/2022	WNV
Los Angeles	GRLA 2580	5765	Cx. quinquefasciatus	Sherman Oaks	50	GRVD	8/23/2022	WNV
Los Angeles	GRLA 2650	5769	Cx. quinquefasciatus	Van Nuys	50	GRVD	8/23/2022	WNV
Los Angeles	GRLA 2651	5767	Cx. quinquefasciatus	Encino	50	GRVD	8/23/2022	WNV
Los Angeles	GRLA 2655	5768	Cx. quinquefasciatus	Encino	50	BGSENT	8/23/2022	WNV
Los Angeles	GRLA 2724	5778	Cx. quinquefasciatus	Winnetka	50	BGSENT	8/24/2022	WNV
Los Angeles	GRLA 2890	731	Cx. quinquefasciatus	Lakewood	50	GRVD	8/25/2022	WNV
Los Angeles	GRLA 2952	712	Cx. quinquefasciatus	South Whittier	19	GRVD	8/23/2022	WNV
Los Angeles	GRLA 2953	705	Cx. quinquefasciatus	Santa Fe Springs	50	GRVD	8/23/2022	WNV
Los Angeles	GRLA 2955	711	Cx. quinquefasciatus	Cerritos	33	GRVD	8/23/2022	WNV
Los Angeles	GRLA 2957	727	Cx. quinquefasciatus	Hawaiian Gardens	50	GRVD	8/25/2022	WNV
Los Angeles	GRLA 2995	5776	Cx. quinquefasciatus	Woodland Hills	42	BGSENT	8/24/2022	WNV
Los Angeles	GRLA 3027	5785	Cx. quinquefasciatus	Studio City	25	GRVD	8/25/2022	WNV
Los Angeles	GRLA 3036	5781	Cx. quinquefasciatus	Canoga Park	50	GRVD	8/24/2022	WNV
Los Angeles	GRLA 3038	5790	Cx. quinquefasciatus	Valley Village	50	GRVD	8/25/2022	WNV
Los Angeles	GRLA 3041	703	Cx. quinquefasciatus	Artesia	50	GRVD	8/23/2022	WNV
Los Angeles	GRLA 3042	719	Cx. quinquefasciatus	Hacienda Heights	32	GRVD	8/24/2022	WNV
Los Angeles	GRLA 3044	716	Cx. quinquefasciatus	South El Monte	30	GRVD	8/24/2022	WNV
Los Angeles	GRLA 3045	725	Cx. quinquefasciatus	Whittier	29	GRVD	8/24/2022	WNV
Los Angeles	GRLA 3048	704	Cx. quinquefasciatus	Pico Rivera	29	GRVD	8/23/2022	WNV
Los Angeles	GRLA 3052	724	Cx. quinquefasciatus	La Habra Heights	50	GRVD	8/24/2022	WNV
Los Angeles	GRLA 3053	723	Cx. quinquefasciatus	Hacienda Heights	50	GRVD	8/24/2022	WNV
Los Angeles	GRLA 3060	708	Cx. quinquefasciatus	Norwalk	24	GRVD	8/23/2022	WNV
Los Angeles	GRLA 3066	5793	Cx. quinquefasciatus	Valley Glen	50	GRVD	8/25/2022	WNV
Los Angeles	GRLA 3069	5791	Cx. quinquefasciatus	Valley Village	37	GRVD	8/25/2022	WNV
Los Angeles	GRLA 3076	5794	Cx. quinquefasciatus	Valley Glen	50	GRVD	8/25/2022	WNV
Los Angeles	GRLA 3097	5805	Cx. quinquefasciatus	Arleta	31	GRVD	8/26/2022	WNV
Los Angeles	GRLA 3133	5796	Cx. quinquefasciatus	San Fernando	50	GRVD	8/26/2022	WNV
Los Angeles	GRLA 3133	5796	Cx. quinquefasciatus	San Fernando	50	GRVD	8/26/2022	SLEV
Los Angeles	SGVA 1010	894	Cx. quinquefasciatus	Monrovia	38	GRVD	8/30/2022	WNV
Los Angeles	SGVA 1032	918	Cx. quinquefasciatus	Pasadena	35	GRVD	8/30/2022	WNV
Los Angeles	SGVA 1074	916	Cx. quinquefasciatus	Temple City	21	GRVD	8/30/2022	WNV
Los Angeles	SGVA 1077	901	Cx. quinquefasciatus	La Puente	16	GRVD	8/30/2022	WNV
Los Angeles	SGVA 294	908	Cx. quinquefasciatus	City of Industry	16	GRVD	8/30/2022	WNV
Los Angeles	SGVA 313	921	Cx. quinquefasciatus	Pasadena	37	GRVD	8/30/2022	WNV
Los Angeles	SGVA 385	897	Cx. quinquefasciatus	Arcadia	50	GRVD	8/30/2022	WNV
Los Angeles	SGVA 395	927	Cx. quinquefasciatus	Pasadena	20	GRVD	8/30/2022	WNV
Los Angeles	SGVA 4	898	Cx. quinquefasciatus	Arcadia	29	GRVD	8/30/2022	WNV
Los Angeles	SGVA 466	925	Cx. quinquefasciatus	Pasadena	27	GRVD	8/30/2022	WNV
Los Angeles	SGVA 473	914	Cx. quinquefasciatus	San Gabriel	40	GRVD	8/30/2022	WNV
Los Angeles	SGVA 482	891	Cx. quinquefasciatus	Duarte	50	GRVD	8/30/2022	WNV
Los Angeles	SGVA 491	896	Cx. quinquefasciatus	El Monte	42	GRVD	8/30/2022	WNV
Los Angeles	SGVA 505	917	Cx. quinquefasciatus	Monterey Park	19	GRVD	8/30/2022	WNV
Los Angeles	SGVA 64	907	Cx. quinquefasciatus	West Covina	50	GRVD	8/30/2022	WNV
Los Angeles	SGVA 650	910	Cx. quinquefasciatus	Pomona	18	GRVD	8/30/2022	WNV
Los Angeles	SGVA 695	919	Cx. quinquefasciatus	Rosemead	50	GRVD	8/30/2022	WNV
Los Angeles	SGVA 898	913	Cx. quinquefasciatus	San Gabriel	37	GRVD	8/30/2022	WNV
Los Angeles	SGVA 953	906	Cx. quinquefasciatus	Covina	50	GRVD	8/30/2022	WNV
Los Angeles	SGVA 996	920	Cx. quinquefasciatus	South Pasadena	50	GRVD	8/30/2022	WNV
Madera	MADR 12	571	Cx. tarsalis	Madera	50	CO2	8/25/2022	WNV

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Madera	MADR 195	591	Cx. tarsalis	Madera	50	CO2	8/25/2022	WNV
Madera	MADR 195	592	Cx. tarsalis	Madera	50	CO2	8/25/2022	WNV
Madera	MADR 198	572	Cx. quinquefasciatus	Madera	15	CO2	8/25/2022	WNV
Madera	MADR 198	573	Cx. tarsalis	Madera	50	CO2	8/25/2022	WNV
Madera	MADR 208	581	Cx. quinquefasciatus	Madera	50	CO2	8/26/2022	WNV
Madera	MADR 208	582	Cx. tarsalis	Madera	50	CO2	8/26/2022	WNV
Madera	MADR 259	583	Cx. tarsalis	Madera	50	CO2	8/26/2022	WNV
Madera	MADR 259	584	Cx. tarsalis	Madera	50	CO2	8/26/2022	WNV
Madera	MADR 259	584	Cx. tarsalis	Madera	50	CO2	8/26/2022	SLEV
Madera	MADR 298	548	Cx. quinquefasciatus	Chowchilla	50	CO2	8/23/2022	WNV
Madera	MADR 299	553	Cx. quinquefasciatus	Chowchilla	50	CO2	8/23/2022	WNV
Madera	MADR 299	554	Cx. tarsalis	Chowchilla	50	CO2	8/23/2022	WNV
Madera	MADR 300	551	Cx. tarsalis	Chowchilla	36	CO2	8/23/2022	WNV
Madera	MADR 3334	587	Cx. quinquefasciatus	Madera	50	CO2	8/26/2022	WNV
Madera	MADR 3334	588	Cx. tarsalis	Madera	50	CO2	8/26/2022	WNV
Madera	MADR 3334	589	Aedes aegypti	Madera	26	CO2	8/26/2022	WNV
Madera	MADR 3334	590	Cx. tarsalis	Madera	50	CO2	8/26/2022	WNV
Madera	MADR 581	563	Cx. tarsalis	Madera	13	CO2	8/24/2022	WNV
Madera	MADR 704	576	Cx. tarsalis	Madera	50	CO2	8/25/2022	WNV
Madera	MADR 704	577	Cx. quinquefasciatus	Madera	50	CO2	8/25/2022	WNV
Madera	MADR 704	578	Cx. tarsalis	Madera	50	CO2	8/25/2022	WNV
Madera	MADR 706	574	Cx. tarsalis	Madera	50	CO2	8/25/2022	WNV
Madera	MADR 706	575	Cx. tarsalis	Madera	50	CO2	8/25/2022	WNV
Madera	MADR 85	566	Cx. quinquefasciatus	Madera	40	CO2	8/24/2022	WNV
Madera	MADR 896	555	Cx. tarsalis	Mendota	50	CO2	8/23/2022	WNV
Madera	MADR 896	557	Cx. tarsalis	Mendota	50	CO2	8/23/2022	WNV
Merced	MERC 1005	253	Cx. tarsalis	Atwater	29	CO2	8/25/2022	WNV
Merced	MERC 787357	268	Cx. pipiens	Livingston	8	BGSENT	8/25/2022	WNV
Orange	ORCO 1011	3186	Cx. quinquefasciatus	La Habra	38	GRVD	8/30/2022	WNV
Orange	ORCO 215	3154	Cx. quinquefasciatus	La Habra	8	CO2	8/25/2022	WNV
Placer	PLCR 139	1439	Cx. tarsalis	Roseville	50	CO2	8/30/2022	WNV
Placer	PLCR 197802	1432	Cx. tarsalis	Elverta	23	CO2	8/30/2022	WNV
Placer	PLCR 25	1485	Cx. tarsalis	Lincoln	50	CO2	8/30/2022	WNV
Riverside	COAV 10	4773	Cx. tarsalis	Oasis	18	CO2	8/30/2022	WNV
Riverside	COAV 13	4770	Cx. tarsalis	Thermal	50	CO2	8/30/2022	WNV
Riverside	COAV 131	4696	Cx. tarsalis	Oasis	37	CO2	8/30/2022	WNV
Riverside	COAV 131	4696	Cx. tarsalis	Oasis	37	CO2	8/30/2022	SLEV
Riverside	COAV 17	4694	Cx. tarsalis	Mecca	50	CO2	8/30/2022	WNV
Riverside	COAV 17	4694	Cx. tarsalis	Mecca	50	CO2	8/30/2022	SLEV
Riverside	COAV 30	4713	Cx. quinquefasciatus	Thermal	50	CO2	8/30/2022	WNV
Riverside	COAV 30	4714	Cx. quinquefasciatus	Thermal	50	CO2	8/30/2022	WNV
Riverside	COAV 30	4867	Cx. quinquefasciatus	Thermal	50	CO2	9/1/2022	WNV
Riverside	COAV 30	4870	Cx. quinquefasciatus	Thermal	50	CO2	9/1/2022	WNV
Riverside	COAV 33	4704	Cx. tarsalis	Thermal	50	CO2	8/30/2022	WNV
Riverside	COAV 33	4704	Cx. tarsalis	Thermal	50	CO2	8/30/2022	SLEV
Riverside	COAV 35	4690	Cx. tarsalis	Mecca	50	CO2	8/30/2022	SLEV
Riverside	COAV 37	4697	Cx. tarsalis	Mecca	50	CO2	8/30/2022	WNV
Riverside	COAV 37	4697	Cx. tarsalis	Mecca	50	CO2	8/30/2022	SLEV
Riverside	COAV 37	4698	Cx. tarsalis	Mecca	50	CO2	8/30/2022	WNV
Riverside	COAV 37	4698	Cx. tarsalis	Mecca	50	CO2	8/30/2022	SLEV
Riverside	COAV 6	4774	Cx. tarsalis	Oasis	7	CO2	8/30/2022	WNV
Riverside	COAV 610	4707	Cx. tarsalis	Oasis	18	CO2	8/30/2022	WNV
Riverside	COAV 799	4792	Cx. quinquefasciatus	La Quinta	6	BGSENT	8/30/2022	WNV
Sacramento	SAYO 204011	4043	Cx. pipiens	Citrus Heights	50	GRVD	8/26/2022	WNV
Sacramento	SAYO 271007	3973	Cx. pipiens	Isleton	1	GRVD	8/26/2022	WNV
San Bernardino	WVAL 2008	1331	Cx. quinquefasciatus	Chino	30	CO2	8/31/2022	WNV
San Bernardino	WVAL 2018	1337	Cx. quinquefasciatus	Chino	15	GRVD	8/31/2022	WNV
San Bernardino	WVAL 3970	1304	Cx. quinquefasciatus	Chino	5	BGSENT	8/30/2022	WNV
San Bernardino	WVAL 4568	1336	Cx. quinquefasciatus	Upland	6	GRVD	8/31/2022	WNV
San Bernardino	WVAL 4721	1341	Cx. quinquefasciatus	Chino	39	BGSENT	8/31/2022	WNV
San Bernardino	WVAL 5005	1358	Cx. quinquefasciatus	Rancho Cucamonga	19	GRVD	9/1/2022	WNV
San Bernardino	WVAL 5009	1349	Cx. quinquefasciatus	Rancho Cucamonga	7	GRVD	8/31/2022	WNV
San Bernardino	WVAL 5456	1355	Cx. quinquefasciatus	Chino	50	BGSENT	8/31/2022	WNV
San Bernardino	WVAL 70	1338	Cx. quinquefasciatus	Ontario	50	GRVD	8/31/2022	WNV
San Bernardino	WVAL 9005	1297	Cx. quinquefasciatus	Upland	21	GRVD	8/30/2022	WNV
San Bernardino	WVAL 9007	1302	Cx. quinquefasciatus	Upland	8	GRVD	8/30/2022	WNV
San Joaquin	SJCM 8008	1747	Cx. tarsalis	Manteca	50	CO2	8/30/2022	WNV
San Joaquin	SJCM 8011	1755	Cx. tarsalis	Ripon	8	CO2	8/30/2022	WNV
San Joaquin	SJCM 8011	1756	Cx. pipiens	Ripon	30	CO2	8/30/2022	WNV

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San Joaquin	SJCM 8018	1714	Cx. tarsalis	Stockton	50	CO2	8/30/2022	WNV
San Joaquin	SJCM 8018	1715	Cx. tarsalis	Stockton	50	CO2	8/30/2022	WNV
San Joaquin	SJCM 8018	1716	Cx. tarsalis	Stockton	50	CO2	8/30/2022	WNV
San Joaquin	SJCM 8018	1717	Cx. tarsalis	Stockton	50	CO2	8/30/2022	WNV
San Joaquin	SJCM 8018	1718	Cx. tarsalis	Stockton	10	CO2	8/30/2022	WNV
San Joaquin	SJCM 8018	1719	Cx. pipiens	Stockton	5	CO2	8/30/2022	WNV
San Joaquin	SJCM 8056	1744	Cx. tarsalis	Manteca	50	CO2	8/30/2022	WNV
San Joaquin	SJCM 8056	1745	Cx. tarsalis	Manteca	24	CO2	8/30/2022	WNV
San Joaquin	SJCM 8097	1729	Cx. tarsalis	Banta	11	CO2	8/30/2022	WNV
San Joaquin	SJCM 8106	1753	Cx. pipiens	Escalon	21	CO2	8/30/2022	WNV
San Joaquin	SJCM 8143	1713	Cx. pipiens	Stockton	16	CO2	8/30/2022	WNV
San Joaquin	SJCM 8161	1741	Cx. pipiens	Ripon	34	CO2	8/30/2022	WNV
San Joaquin	SJCM 8199	1742	Cx. tarsalis	Manteca	34	CO2	8/30/2022	WNV
San Joaquin	SJCM 8209	1778	Cx. pipiens	Lodi	41	CO2	9/1/2022	WNV
San Joaquin	SJCM 8219	1730	Cx. tarsalis	Stockton	28	CO2	8/30/2022	WNV
San Joaquin	SJCM 8227	1760	Cx. pipiens	Ripon	17	CO2	8/30/2022	WNV
San Joaquin	SJCM 8233	1727	Cx. pipiens	stockton	10	CO2	8/30/2022	WNV
Santa Clara	STCL 31725	3008	Cx. pipiens	Sunnyvale	27	GRVD	8/27/2022	WNV
Santa Clara	STCL 31765	3085	Cx. pipiens	Sunnyvale	7	GRVD	8/30/2022	WNV
Shasta	SHAS 110	487	Cx. pipiens	Redding	15	CO2	8/31/2022	WNV
Shasta	SHAS 130	458	Cx. pipiens	Redding	24	GRVD	8/29/2022	WNV
Shasta	SHAS 177	473	Cx. pipiens	Redding	17	CO2	8/31/2022	WNV
Shasta	SHAS 20040	467	Cx. tarsalis	Redding	37	CO2	8/30/2022	WNV
Shasta	SHAS 26	475	Cx. pipiens	Anderson	47	CO2	8/31/2022	WNV
Shasta	SHAS 707	471	Cx. tarsalis	Shasta Lake	36	CO2	8/30/2022	WNV
Stanislaus	TRLK 1615	610	Cx. tarsalis	Modesto	50	CO2	8/30/2022	WNV
Stanislaus	TRLK 1615	614	Cx. tarsalis	Modesto	50	CO2	8/30/2022	WNV
Stanislaus	TRLK 1615	615	Cx. tarsalis	Modesto	50	CO2	8/30/2022	WNV
Stanislaus	TRLK 1673	631	Cx. tarsalis	Patterson	50	CO2	8/30/2022	WNV
Stanislaus	TRLK 1673	639	Cx. tarsalis	Patterson	50	CO2	8/30/2022	WNV
Stanislaus	TRLK 424	621	Cx. tarsalis	Patterson	50	CO2	8/30/2022	WNV
Stanislaus	TRLK 437	672	Cx. pipiens	Patterson	50	CO2	8/30/2022	WNV
Stanislaus	TRLK 437	677	Cx. tarsalis	Patterson	50	CO2	8/30/2022	WNV
Stanislaus	TRLK 437	683	Cx. tarsalis	Patterson	50	CO2	8/30/2022	WNV
Stanislaus	TRLK 437	685	Cx. tarsalis	Patterson	47	CO2	8/30/2022	WNV
Stanislaus	TRLK 806	576	Cx. tarsalis	Grayson	42	CO2	8/30/2022	WNV
Stanislaus	TRLK 9768	659	Cx. tarsalis	Modesto	50	CO2	8/30/2022	WNV
Tulare	DLTA 63173	2705	Cx. quinquefasciatus	Kingsburg	14	CO2	8/23/2022	WNV
Tulare	DLTA 64163	2858	Cx. quinquefasciatus	Dinuba	11	BGSENT	8/25/2022	WNV
Tulare	DLTA 740744	2749	Cx. quinquefasciatus	London	34	CO2	8/24/2022	WNV
Tulare	DLTA 740813	2769	Cx. quinquefasciatus	London	43	CO2	8/24/2022	WNV
Tulare	DLTA 740813	2770	Cx. quinquefasciatus	London	10	CO2	8/24/2022	WNV
Tulare	DLTA 741334	2786	Cx. quinquefasciatus	Monson	50	CO2	8/24/2022	WNV
Tulare	DLTA 741541	2762	Cx. quinquefasciatus	Monson	50	CO2	8/24/2022	WNV
Tulare	DLTA 741541	2764	Cx. quinquefasciatus	Monson	50	CO2	8/24/2022	WNV
Tulare	DLTA 741541	2768	Cx. tarsalis	Monson	35	CO2	8/24/2022	WNV
Tulare	DLTA 8324	2690	Cx. quinquefasciatus	Goshen	47	BGSENT	8/19/2022	WNV
Tulare	DLTA 8413	2733	Cx. quinquefasciatus	Visalia	50	BGSENT	8/23/2022	WNV
Tulare	DLTA 8413	2851	Cx. quinquefasciatus	Visalia	15	BGSENT	8/25/2022	WNV
Tulare	DLTA 8414	2718	Cx. quinquefasciatus	Visalia	50	BGSENT	8/23/2022	WNV
Tulare	DLTA 8414	2719	Cx. quinquefasciatus	Visalia	50	BGSENT	8/23/2022	WNV
Tulare	DLTA 841543	2836	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841543	2840	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841543	2841	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841543	2842	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841543	2843	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841543	2844	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841543	2845	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841543	2847	Cx. tarsalis	Visalia	15	CO2	8/25/2022	WNV
Tulare	DLTA 841611	2796	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841611	2797	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841611	2798	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841611	2799	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841611	2800	Cx. quinquefasciatus	Visalia	30	CO2	8/25/2022	WNV
Tulare	DLTA 841631	2809	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841631	2810	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841631	2812	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841631	2813	Cx. quinquefasciatus	Visalia	33	CO2	8/25/2022	WNV
Tulare	DLTA 841632	2817	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV

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Tulare	DLTA 841632	2819	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841632	2821	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841632	2822	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841632	2823	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841632	2824	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841632	2825	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841632	2826	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841632	2830	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841632	2831	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841632	2832	Cx. quinquefasciatus	Visalia	49	CO2	8/25/2022	WNV
Tulare	DLTA 841632	2833	Cx. tarsalis	Visalia	15	CO2	8/25/2022	WNV
Tulare	DLTA 841634	2848	Cx. quinquefasciatus	Visalia	20	CO2	8/25/2022	WNV
Tulare	DLTA 841642	2802	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 841642	2803	Cx. quinquefasciatus	Visalia	50	CO2	8/25/2022	WNV
Tulare	DLTA 8419	2784	Cx. quinquefasciatus	Goshen	50	BGSENT	8/24/2022	WNV
Tulare	DLTA 84193	2855	Cx. quinquefasciatus	Visalia	19	BGSENT	8/25/2022	WNV
Tulare	DLTA 8422	2753	Cx. quinquefasciatus	Goshen	50	BGSENT	8/24/2022	WNV
Tulare	DLTA 8422	2755	Cx. quinquefasciatus	Goshen	50	BGSENT	8/24/2022	WNV
Tulare	DLTA 8422	2757	Cx. quinquefasciatus	Goshen	50	BGSENT	8/24/2022	WNV
Tulare	DLTA 8422	2878	Cx. quinquefasciatus	Goshen	50	BGSENT	8/26/2022	WNV
Tulare	DLTA 8422	2880	Cx. quinquefasciatus	Goshen	50	BGSENT	8/26/2022	WNV
Tulare	DLTA 8422	2881	Cx. quinquefasciatus	Goshen	11	BGSENT	8/26/2022	WNV
Tulare	DLTA 84221	2729	Cx. quinquefasciatus	Visalia	10	BGSENT	8/23/2022	WNV
Tulare	DLTA 8423	2857	Cx. quinquefasciatus	Visalia	50	BGSENT	8/25/2022	WNV
Tulare	DLTA 8423	2877	Cx. quinquefasciatus	Visalia	47	BGSENT	8/26/2022	WNV
Tulare	DLTA 84231	2711	Cx. quinquefasciatus	Visalia	50	BGSENT	8/23/2022	WNV
Tulare	DLTA 84231	2712	Cx. quinquefasciatus	Visalia	50	BGSENT	8/23/2022	WNV
Tulare	DLTA 84231	2713	Cx. quinquefasciatus	Visalia	50	BGSENT	8/23/2022	WNV
Tulare	DLTA 84231	2714	Cx. quinquefasciatus	Visalia	50	BGSENT	8/23/2022	WNV
Tulare	DLTA 84231	2715	Cx. quinquefasciatus	Visalia	50	BGSENT	8/23/2022	WNV
Tulare	DLTA 84231	2716	Cx. quinquefasciatus	Visalia	48	BGSENT	8/23/2022	WNV
Tulare	DLTA 8425	2695	Cx. quinquefasciatus	Visalia	29	GRVD	8/23/2022	WNV
Tulare	DLTA 8527	2737	Cx. quinquefasciatus	Visalia	34	BGSENT	8/23/2022	WNV
Tulare	DLTA 85293	2853	Cx. quinquefasciatus	Visalia	13	BGSENT	8/25/2022	WNV
Tulare	DLTA 9403	2696	Cx. quinquefasciatus	Visalia	34	GRVD	8/23/2022	WNV
Tulare	DLTA 94032	2760	Cx. quinquefasciatus	Visalia	16	BGSENT	8/24/2022	WNV
Tulare	DLTA 94033	2864	Cx. quinquefasciatus	Visalia	37	CO2	8/26/2022	WNV
Yolo	SAYO 115008	4137	Cx. tarsalis	Woodland	50	CO2	8/30/2022	WNV
Yolo	SAYO 115008	4138	Cx. tarsalis	Woodland	50	CO2	8/30/2022	WNV
Yolo	SAYO 115008	4140	Cx. tarsalis	Woodland	50	CO2	8/30/2022	WNV
Yolo	SAYO 124007	4037	Cx. tarsalis	Woodland	16	CO2	8/26/2022	WNV
Yolo	SAYO 136010	3886	Cx. tarsalis	Woodland	50	CO2	8/23/2022	WNV
Yolo	SAYO 136010	3887	Cx. tarsalis	Woodland	50	CO2	8/23/2022	WNV
Yolo	SAYO 136010	3889	Cx. tarsalis	Woodland	50	CO2	8/23/2022	WNV
Yolo	SAYO 136010	4155	Cx. tarsalis	Woodland	50	CO2	8/30/2022	WNV
Yolo	SAYO 145008	3908	Cx. tarsalis	Davis	22	CO2	8/23/2022	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03
Butte	BUCO 000001	Chico	8/23/2022	WNV	1604	1605	
Butte	BUCO 000004	Gridley	8/23/2022	WNV	1624		
Butte	BUCO 000007	Chico	8/23/2022	WNV	1642	1643	
Contra Costa	CNTR 8152	Knightsen	8/22/2022	WNV	1059		
Merced	MERC 000001	Merced	8/26/2022	WNV	1149	1151	
Merced	MERC 000006	Merced	8/26/2022	WNV	1163	1164	
Merced	MERC 000501	Merced	8/26/2022	WNV	1167	1169	1170
Merced	MERC 000502	Hilmar	8/26/2022	WNV	1173	1175	1176
Sutter	SUYA 000015	Robbins	8/25/2022	WNV	1443		
Sutter	SUYA 000030	Live Oak	8/25/2022	WNV	1426	1428	
Sutter	SUYA 000084	Yuba City	8/25/2022	WNV	1403	1406	
Tehama	TEHA 000100	Corning	8/24/2022	WNV	1496		
Yuba	SUYA 000007	Marysville	8/25/2022	WNV	1416	1419	1420
Yuba	SUYA 000010	Olivehurst	8/25/2022	WNV	1411		

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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