

California Arbovirus Surveillance Bulletin #26

Week 40 Friday, October 6, 2023



WEEKLY UPDATE

Humans

West Nile virus

A total of 23 new human cases of West Nile virus (WNV) were reported this week from 11 counties: El Dorado (1), Marin (1), Merced (3), Orange (1), Placer (2), Riverside (3), San Bernardino (1), San Joaquin (1), Shasta (2), Solano (3), and Yolo (5). **This is the first human case of WNV reported from Marin County this year.** In 2023, a total of 205 human cases of WNV have been reported from 28 counties. Of the 205 cases, 147 (72%) had neuroinvasive disease and 6 (3%) were fatal. The median age of the case-patients was 59 years and 138 (67%) of the case-patients were male. The dates of symptom onset ranged from June 30 to September 19. In addition to the 205 WNV human cases, 20 asymptomatic WNV-positive blood donors have been reported from 14 counties: Amador (1), Butte (1), Contra Costa (1), Fresno (2), Kern (1), Kings (2), Los Angeles (3), Orange (1), Riverside (1), San Bernardino (2), San Joaquin (1), San Mateo (1), Stanislaus (1), and Yolo (2). At this time last year, 90 WNV human cases had been reported from 19 counties.

St. Louis encephalitis virus

No new human cases of St. Louis encephalitis virus (SLEV) were reported this week. In 2023, 3 SLEV human cases have been reported from 2 counties. At this time last year, 8 SLEV human cases had been reported from 4 counties.

Dead Birds

A total of 46 new WNV positive dead birds were reported from 14 counties: Alameda (4), Contra Costa (11), El Dorado (1), Lake (1), Los Angeles (2), Riverside (4), Sacramento (1), San Diego (2), San Mateo (5), Santa Clara (8), Solano (2), Sonoma (2), Ventura (1), and Yolo (2). In 2023, 743 WNV positive dead birds have been reported from 30 counties. At this time last year, 173 WNV positive dead birds had been reported from 23 counties.

Mosquito Pools

West Nile virus

A total of 88 new WNV positive mosquito pools were reported from 12 counties: Fresno (1), Kern (1), Los Angeles (37), Orange (23), Riverside (3), Sacramento (1), San Bernardino (2), San Joaquin (4), Santa Clara (2), Shasta (6), Sonoma (1), and Stanislaus (7). In 2023, 4,223 WNV positive mosquito pools have been reported from 31 counties. At this time last year, 2,987 WNV positive mosquito pools had been reported from 26 counties.

St. Louis encephalitis virus

A total of 24 new SLEV positive mosquito pools were reported from 7 counties: Fresno (10), Kern (2), Kings (1), Merced (3), Riverside (2), San Joaquin (1), and Stanislaus (5). In 2023, 639 SLEV positive mosquito pools have been reported from 15 counties. At this time last year, 137 SLEV positive mosquito pools had been reported from 8 counties.

Sentinel Chickens

West Nile virus

A total of 4 new WNV positive chickens were reported this week from 2 counties: Butte (1) and Contra Costa (3). In 2023, 167 WNV positive chickens have been reported from 17 counties. At this time last year, 127 WNV positive chickens had been reported from 13 counties.

St. Louis encephalitis virus

No new SLEV positive chickens were reported this week. In 2023, 1 SLEV positive chicken has been reported from 1 county. At this time last year, no SLEV positive chickens had been reported.

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2022 & 2023 YTD West Nile Virus Comparisons		
	2022	2023
Total No. Dead Bird Reports	4,262	5,883
No. Positive Counties	32	41
No. Human Cases	90	205
No. Positive Dead Birds / No. Tested	173 / 1,165	743 / 1,764
No. Positive Mosquito Pools / No. Tested	2,987 / 35,648	4,223 / 47,331
No. Seroconversions / No. Tested	127 / 4,547	167 / 3,226

YTD WNV Activity by Element and County, 2023					
County	Humans*	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			62	15	3
Butte	17	1	2	69	32
Calaveras					3
Colusa	1		2	2	5
Contra Costa	2		61	18	7
El Dorado	2		4		
Fresno	5	2	1	225	
Glenn	4			1	
Imperial				3	
Inyo				2	
Kern	4	2		103	
Kings	6	1		66	
Lake	4		7	25	
Los Angeles	18		36	475	19
Madera	4	1	1	207	
Marin	1		2		
Merced	8	2		43	22
Napa		1	3	7	
Nevada	1		1		2
Orange	2	1		144	
Placer	5	1	43	177	
Riverside	10	1	64	130	
Sacramento	19	3	190	340	5
San Benito			1		4
San Bernardino	15	1	11	149	
San Diego			7	1	
San Joaquin	12	2	20	601	
San Luis Obispo		2	1		
San Mateo			8		
Santa Clara	1	1	98	16	
Shasta	5		2	151	5
Siskiyou		1			
Solano	4		17	24	11
Sonoma			13	3	
Stanislaus	14	2	6	292	
Sutter	5		6	66	19
Tehama					4
Tulare	15	1	5	550	10
Ventura			4		
Yolo	16		65	292	9
Yuba	5	1		26	7
Totals	205	27	743	4,223	167

*Asymptomatic human infections are not included.

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YTD SLEV Activity by Element and County, 2023			
County	Humans	Mosquito Pools	Sentinel Chickens
Fresno		145	
Imperial		3	
Inyo		1	
Kern	1	63	
Kings		31	
Madera		47	
Merced		12	
Napa		1	
Placer		1	
Riverside		113	
San Joaquin		7	
Shasta		3	1
Stanislaus	2	23	
Tulare		186	
Yolo		3	
Totals	3	639	1

TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	23	0	0
	YTD	205	3	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Dead Birds	Week	46 / 70					
	YTD	743 / 1,764					
Chicken Sera	Week	4 / 98	0 / 98	0 / 98			
	YTD	167 / 3,226	1 / 3,226	0 / 3,226			
Mosquito Pools	Week	88 / 1,783	24 / 1,525	0 / 1,525	0 / 92	0 / 92	0 / 92
	YTD	4,223 / 47,331	639 / 42,589	0 / 42,646	0 / 744	0 / 744	0 / 744

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported
Alameda	Alameda Co MAD	Alameda	94502	Unknown - Crow or Raven	10/2/2023
Alameda	Alameda Co MAD	Fremont	94538	American Crow	10/5/2023
Alameda	Alameda Co MAD	Livermore	94550	American Crow	10/1/2023
Alameda	Alameda Co MAD	Newark	94560	American Crow	10/4/2023
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	9/25/2023
Contra Costa	Contra Costa MVCD	Concord	94518	American Crow	9/20/2023
Contra Costa	Contra Costa MVCD	Concord	94519	American Crow	9/25/2023
Contra Costa	Contra Costa MVCD	Concord	94520	American Crow	9/24/2023
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	9/23/2023
Contra Costa	Contra Costa MVCD	Martinez	94553	American Crow	9/20/2023
Contra Costa	Contra Costa MVCD	Martinez	94553	California Scrub-Jay	9/21/2023
Contra Costa	Contra Costa MVCD	Pacheco	94553	American Crow	9/25/2023
Contra Costa	Contra Costa MVCD	Pleasant Hill	94523	American Crow	9/19/2023
Contra Costa	Contra Costa MVCD	Pleasant Hill	94523	American Crow	9/22/2023
Contra Costa	Contra Costa MVCD	Walnut Creek	94596	American Crow	9/21/2023
El Dorado	El Dorado Co Env Management	Cameron Park	95682	California Scrub-Jay	9/20/2023
Lake	Lake Co VCD	Upper Lake	95493	American Crow	9/25/2023
Los Angeles	Greater Los Angeles Co VCD - SFS	Lakewood	90712	Unknown - songbird	9/21/2023
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Glendale	91202	Sparrow	9/22/2023
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	9/20/2023
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	9/20/2023
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	9/20/2023
Riverside	Northwest Mosquito VCD	Norco	92860	American Crow	9/20/2023
Sacramento	Sacramento-Yolo MVCD	Folsom	95630	California Scrub-Jay	9/27/2023
San Diego	San Diego Co VCP	La mesa	91941	American Crow	9/28/2023
San Diego	San Diego Co VCP	Ramona	92065	American Crow	9/30/2023
San Mateo	San Mateo Co MVCD	Burlingame	94010	Common Raven	9/10/2023
San Mateo	San Mateo Co MVCD	Menlo Park	94025	American Crow	9/7/2023
San Mateo	San Mateo Co MVCD	Menlo Park	94025	American Crow	9/13/2023
San Mateo	San Mateo Co MVCD	Menlo Park	94025	American Crow	9/18/2023
San Mateo	San Mateo Co MVCD	San Carlos	94070	American Crow	9/10/2023
Santa Clara	Santa Clara Co VCD	Los Altos Hills	94022	American Crow	10/2/2023
Santa Clara	Santa Clara Co VCD	Mountain View	94041	American Crow	10/4/2023
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	10/2/2023
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	10/4/2023
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	10/2/2023
Santa Clara	Santa Clara Co VCD	San Martin	95046	American Crow	10/4/2023
Santa Clara	Santa Clara Co VCD	Sunnyvale	94085	American Crow	10/4/2023
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	9/29/2023
Solano	Solano Co MAD	Vacaville	95687	American Crow	9/18/2023
Solano	Solano Co MAD	Vacaville	95688	Unknown - Crow or Raven	9/15/2023
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95401	American Crow	9/26/2023
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95403	American Crow	9/26/2023
Ventura	Ventura Co Env Health Dept	Newbury Park	91320	Unknown - Crow or Raven	9/20/2023
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	9/29/2023
Yolo	Sacramento-Yolo MVCD	Woodland	95695	Northern Mockingbird	9/26/2023

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus
Fresno	CNSL 2694	325	Cx quinquefasciatus	Sanger	38	GRVD	9/28/2023	SLEV
Fresno	CNSL 3502	317	Cx quinquefasciatus	Orange Cove	39	CO2	9/26/2023	SLEV
Fresno	CNSL 4203	322	Cx quinquefasciatus	Selma	50	GRVD	9/27/2023	WNV
Fresno	CNSL 4203	322	Cx quinquefasciatus	Selma	50	GRVD	9/27/2023	SLEV
Fresno	CNSL 8093	327	Cx quinquefasciatus	Fresno	50	GRVD	9/28/2023	SLEV
Fresno	CNSL 8108	788	Cx quinquefasciatus	Fresno	45	GRVD	9/29/2023	SLEV
Fresno	CNSL 9205	778	Cx quinquefasciatus	Fresno	38	GRVD	9/26/2023	SLEV

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Fresno	FRWS 200003	472	Cx tarsalis	Dos Palos	50	CO2	10/3/2023	SLEV
Fresno	FRWS 2105	467	Cx tarsalis	Dos Palos	50	CO2	10/3/2023	SLEV
Fresno	FRWS 2105	468	Cx tarsalis	Dos Palos	50	CO2	10/3/2023	SLEV
Fresno	FRWS 5101	459	Cx tarsalis	Mendota	50	CO2	10/3/2023	SLEV
Kern	DLNO 160	348	Cx quinquefasciatus	Mcfarland	50	GRVD	9/26/2023	SLEV
Kern	DLNO 33	358	Cx quinquefasciatus	Mcfarland	50	CO2	9/29/2023	SLEV
Kern	DLNO 80	361	Cx tarsalis	Mcfarland	21	CO2	9/29/2023	WNV
Kings	CNSL 5193	785	Cx quinquefasciatus	Kingsburg	50	GRVD	9/27/2023	SLEV
Los Angeles	GRLA 2007	5828	Cx quinquefasciatus	Toluca Lake	50	GRVD	9/26/2023	WNV
Los Angeles	GRLA 2017	5829	Cx quinquefasciatus	Studio City	30	GRVD	9/26/2023	WNV
Los Angeles	GRLA 2021	5842	Cx quinquefasciatus	Reseda	50	GRVD	9/27/2023	WNV
Los Angeles	GRLA 2029	5852	Cx quinquefasciatus	Canoga Park	50	GRVD	9/28/2023	WNV
Los Angeles	GRLA 2030	5853	Cx quinquefasciatus	West Hills	50	GRVD	9/28/2023	WNV
Los Angeles	GRLA 2032	5844	Cx quinquefasciatus	Northridge	50	GRVD	9/27/2023	WNV
Los Angeles	GRLA 2097	805	Cx quinquefasciatus	La Mirada	50	GRVD	9/28/2023	WNV
Los Angeles	GRLA 2100	812	Cx quinquefasciatus	Norwalk	50	GRVD	9/28/2023	WNV
Los Angeles	GRLA 2222	798	Cx quinquefasciatus	Rowland Heights	50	GRVD	9/27/2023	WNV
Los Angeles	GRLA 2268	811	Cx quinquefasciatus	Cerritos	41	GRVD	9/28/2023	WNV
Los Angeles	GRLA 2295	818	Cx quinquefasciatus	Los Angeles	50	GRVD	9/29/2023	WNV
Los Angeles	GRLA 2359	792	Cx quinquefasciatus	South El Monte	20	GRVD	9/27/2023	WNV
Los Angeles	GRLA 2540	5846	Cx quinquefasciatus	Porter Ranch	50	GRVD	9/27/2023	WNV
Los Angeles	GRLA 2555	5840	Cx quinquefasciatus	Encino	50	GRVD	9/27/2023	WNV
Los Angeles	GRLA 2669	5866	Cx quinquefasciatus	Granada Hills	50	GRVD	9/29/2023	WNV
Los Angeles	GRLA 2953	807	Cx quinquefasciatus	Santa Fe Springs	50	GRVD	9/28/2023	WNV
Los Angeles	GRLA 2962	5858	Cx quinquefasciatus	Chatsworth	50	GRVD	9/28/2023	WNV
Los Angeles	GRLA 3027	5826	Cx quinquefasciatus	Studio City	39	GRVD	9/26/2023	WNV
Los Angeles	GRLA 3036	5854	Cx quinquefasciatus	Canoga Park	50	GRVD	9/28/2023	WNV
Los Angeles	GRLA 3040	806	Cx quinquefasciatus	La Mirada	50	GRVD	9/28/2023	WNV
Los Angeles	GRLA 3060	808	Cx quinquefasciatus	Norwalk	50	GRVD	9/28/2023	WNV
Los Angeles	GRLA 3061	817	Cx quinquefasciatus	Los Angeles- Central-Alameda	50	GRVD	9/29/2023	WNV
Los Angeles	GRLA 3062	819	Cx quinquefasciatus	Los Angeles-Florence-Firestone	50	GRVD	9/29/2023	WNV
Los Angeles	GRLA 3102	5830	Cx quinquefasciatus	Studio City	50	BGSENT	9/26/2023	WNV
Los Angeles	LACW 1002	835	Cx quinquefasciatus	Torrance	50	GRVD	9/19/2023	WNV
Los Angeles	SGVA 1216	886	Cx quinquefasciatus	Covina	50	GRVD	10/4/2023	WNV
Los Angeles	SGVA 1281	871	Cx quinquefasciatus	Covina	50	GRVD	10/5/2023	WNV
Los Angeles	SGVA 1281	872	Cx quinquefasciatus	Covina	50	GRVD	10/5/2023	WNV
Los Angeles	SGVA 1340	910	Cx quinquefasciatus	Glendora	40	GRVD	10/5/2023	WNV
Los Angeles	SGVA 1340	912	Cx quinquefasciatus	Glendora	41	GRVD	10/5/2023	WNV
Los Angeles	SGVA 1341	904	Cx quinquefasciatus	Glendora	50	GRVD	10/5/2023	WNV
Los Angeles	SGVA 1342	900	Cx quinquefasciatus	Glendora	35	GRVD	10/5/2023	WNV
Los Angeles	SGVA 297	881	Cx quinquefasciatus	Monterey Park	50	GRVD	10/4/2023	WNV
Los Angeles	SGVA 396	875	Cx quinquefasciatus	Pasadena	49	GRVD	10/3/2023	WNV
Los Angeles	SGVA 508	897	Cx quinquefasciatus	Covina	50	GRVD	10/4/2023	WNV
Los Angeles	SGVA 509	857	Cx quinquefasciatus	Glendora	50	GRVD	10/3/2023	WNV
Los Angeles	SGVA 972	879	Cx quinquefasciatus	Covina	50	GRVD	10/4/2023	WNV
Merced	MERC 456225	821	Cx tarsalis	Gustine	43	BGSENT	9/29/2023	SLEV
Merced	MERC 484139	834	Cx tarsalis	Gustine	16	BGSENT	9/29/2023	SLEV
Merced	MERC 763365	840	Cx pipiens	Merced	30	BGSENT	9/29/2023	SLEV
Orange	ORCO 1005	4480	Cx quinquefasciatus	Buena Park	50	GRVD	10/5/2023	WNV
Orange	ORCO 1005	4495	Cx quinquefasciatus	Buena Park	50	GRVD	10/5/2023	WNV
Orange	ORCO 1005	4497	Cx quinquefasciatus	Buena Park	50	GRVD	10/5/2023	WNV
Orange	ORCO 1005	4519	Cx quinquefasciatus	Buena Park	50	GRVD	10/5/2023	WNV
Orange	ORCO 1005	4520	Cx quinquefasciatus	Buena Park	50	GRVD	10/5/2023	WNV
Orange	ORCO 1005	4538	Cx quinquefasciatus	Buena Park	50	GRVD	10/5/2023	WNV
Orange	ORCO 1005	4539	Cx quinquefasciatus	Buena Park	50	GRVD	10/5/2023	WNV
Orange	ORCO 1008	4477	Cx quinquefasciatus	Fullerton	48	GRVD	10/5/2023	WNV
Orange	ORCO 1008	4511	Cx quinquefasciatus	Fullerton	50	GRVD	10/5/2023	WNV
Orange	ORCO 215	4472	Cx quinquefasciatus	La Habra	46	CO2	10/4/2023	WNV
Orange	ORCO 218	4342	Cx quinquefasciatus	Anaheim	50	GRVD	10/3/2023	WNV
Orange	ORCO 218	4354	Cx quinquefasciatus	Anaheim	42	GRVD	10/3/2023	WNV
Orange	ORCO 218	4364	Cx quinquefasciatus	Anaheim	50	GRVD	10/3/2023	WNV
Orange	ORCO 218	4365	Cx quinquefasciatus	Anaheim	49	GRVD	10/3/2023	WNV
Orange	ORCO 218	4374	Cx quinquefasciatus	Anaheim	26	GRVD	10/3/2023	WNV
Orange	ORCO 218	4506	Cx quinquefasciatus	Anaheim	29	GRVD	10/5/2023	WNV
Orange	ORCO 218	4515	Cx quinquefasciatus	Anaheim	20	GRVD	10/5/2023	WNV
Orange	ORCO 218	4516	Cx quinquefasciatus	Anaheim	45	GRVD	10/5/2023	WNV
Orange	ORCO 235	4340	Cx quinquefasciatus	Stanton	50	GRVD	10/3/2023	WNV
Orange	ORCO 238	4464	Cx quinquefasciatus	Anaheim	38	GRVD	10/4/2023	WNV
Orange	ORCO 302	4454	Cx quinquefasciatus	Anaheim	52	GRVD	10/4/2023	WNV

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Orange	ORCO 302	4455	Cx quinquefasciatus	Anaheim	52	GRVD	10/4/2023	WNV
Orange	ORCO 351	4576	Cx quinquefasciatus	Westminster	42	GRVD	10/5/2023	WNV
Riverside	COAV 121	6412	Cx tarsalis	Mecca	50	CO2	10/3/2023	WNV
Riverside	COAV 406	6112	Cx quinquefasciatus	Palm Springs	35	GRVD	10/4/2023	WNV
Riverside	COAV 765	6035	Cx quinquefasciatus	Coachella	50	BGSENT	10/3/2023	SLEV
Riverside	COAV 765	6036	Cx quinquefasciatus	Coachella	9	BGSENT	10/3/2023	SLEV
Riverside	COAV 814	6362	Cx quinquefasciatus	Palm Desert	50	BGSENT	10/5/2023	WNV
Sacramento	SAYO 243009	7480	Cx tarsalis	Elk Grove	12	CO2	10/3/2023	WNV
San Bernardino	WVAL 1193	2769	Cx quinquefasciatus	Upland	14	BGSENT	10/5/2023	WNV
San Bernardino	WVAL 1201	2705	Cx quinquefasciatus	Ontario	12	BGSENT	10/4/2023	WNV
San Joaquin	SJCM 8010	2964	Cx pipiens	Ripon	19	CO2	10/3/2023	SLEV
San Joaquin	SJCM 8106	2954	Cx pipiens	Escalon	31	CO2	10/3/2023	WNV
San Joaquin	SJCM 8161	2991	Cx pipiens	Ripon	50	CO2	10/3/2023	WNV
San Joaquin	SJCM 8210	2967	Cx pipiens	Escalon	50	CO2	10/3/2023	WNV
San Joaquin	SJCM 8253	2986	Cx tarsalis	Linden	21	CO2	10/3/2023	WNV
Santa Clara	STCL 2287	3373	Cx pipiens	San Jose	5	CO2	8/11/2010	WNV
Santa Clara	STCL 31954	3373	Cx pipiens	San Jose	8	BGSENT	10/3/2023	WNV
Shasta	SHAS 116	2183	Cx pipiens	Anderson	18	CO2	10/3/2023	WNV
Shasta	SHAS 459	2174	Cx pipiens	Redding	46	CO2	9/28/2023	WNV
Shasta	SHAS 459	2175	Cx tarsalis	Redding	20	CO2	9/28/2023	WNV
Shasta	SHAS 725	2172	Cx pipiens	Redding	23	CO2	9/28/2023	WNV
Shasta	SHAS 727	2176	Cx tarsalis	Redding	31	CO2	9/28/2023	WNV
Shasta	SHAS 727	2177	Cx pipiens	Redding	50	CO2	9/28/2023	WNV
Sonoma	MARN 560	628	Cx stigmatosoma	Petaluma	50	GRVD	10/3/2023	WNV
Stanislaus	EAST 1008	23236	Cx tarsalis	Modesto	34	CO2	9/8/2023	WNV
Stanislaus	EAST 1093	23272	Cx pipiens	Oakdale	33	GRVD	9/26/2023	WNV
Stanislaus	EAST 2045	23273	Cx pipiens	Riverbank	12	GRVD	9/26/2023	WNV
Stanislaus	EAST 2050	23228	Cx pipiens	Modesto	39	GRVD	9/6/2023	WNV
Stanislaus	TRLK 1616	1857	Cx pipiens	Modesto	50	CO2	10/3/2023	SLEV
Stanislaus	TRLK 17274	1883	Cx tarsalis	Newman	50	CO2	10/3/2023	WNV
Stanislaus	TRLK 23330	1834	Cx pipiens	Turlock	42	CO2	9/28/2023	SLEV
Stanislaus	TRLK 307	1912	Cx tarsalis	Grayson	12	CO2	10/3/2023	SLEV
Stanislaus	TRLK 548	1836	Cx pipiens	Newman	50	CO2	10/3/2023	SLEV
Stanislaus	TRLK 9732	1879	Cx tarsalis	Newman	50	CO2	10/3/2023	WNV
Stanislaus	TRLK 9732	1879	Cx tarsalis	Newman	50	CO2	10/3/2023	SLEV
Stanislaus	TRLK 9742	1868	Cx pipiens	Crows Landing	50	CO2	10/3/2023	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02
Butte	BUCO 5	Honcut	9/26/2023	WNV	2151	
Contra Costa	CNTR 2302	Martinez	9/25/2023	WNV	1916	1917
Contra Costa	CNTR 8152	Knightsen	9/25/2023	WNV	1911	

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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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