

California Arbovirus Surveillance Bulletin #11

Week 25 Friday, June 23, 2023



WEEKLY UPDATE

Humans

No human infections have been reported in 2023.

Dead Birds

A total of 10 new West Nile virus (WNV) positive dead birds were reported this week from 7 counties: Los Angeles (1), Placer (1), Sacramento (1), San Joaquin (1), Santa Clara (4) Tulare (1) and Yolo (1). **These are the first WNV positive dead birds reported from San Joaquin and Yolo counties this year.** In 2023, 41 WNV positive dead birds have been reported from 9 counties. At this time last year, 12 WNV positive dead birds had been reported from 5 counties.

Mosquito Pools

West Nile virus

A total of 53 new WNV positive mosquito pools were reported from 7 counties: Kern (4), Los Angeles (9), Placer (1), Sacramento (6), San Joaquin (18), Stanislaus (1), and Tulare (14). **This is the first detection of WNV activity in Placer County this year.** In 2023, 84 WNV positive mosquito pools have been reported from 9 counties. At this time last year, 87 WNV positive mosquito pools had been reported from 11 counties.

St. Louis encephalitis virus

A total of 5 St. Louis encephalitis virus (SLEV) positive mosquito pools were reported this week from 4 counties: Fresno (1), Imperial (1), Kern (2), and Riverside (1). **This is the first detection of SLEV activity in Fresno and Imperial counties this year.** In 2023, 8 SLEV positive mosquito pools from 4 counties have been reported: Fresno (1), Imperial (1), Kern (3) and Riverside (3). At this time last year, 0 SLEV positive pools had been reported.

Sentinel Chickens

No seroconversions have been reported in 2023.

2022 & 2023 YTD West Nile Virus Comparisons		
	2022	2023
Total No. Dead Bird Reports	2,260	2,361
No. Positive Counties	11	11
No. Human Cases	0	0
No. Positive Dead Birds / No. Tested	12 / 523	41 / 459
No. Positive Mosquito Pools / No. Tested	87 / 10,162	84 / 14,269
No. Seroconversions / No. Tested	0 / 1,423	0 / 1,074

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YTD WNV Activity by Element and County, 2023					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			2	1	
Kern				6	
Los Angeles			9	17	
Placer			1	1	
Riverside			3		
Sacramento			11	8	
San Joaquin			1	26	
Santa Clara			11		
Stanislaus				4	
Tulare			2	20	
Yolo			1	1	
Totals	0	0	41	84	0

TESTING SUMMARIES

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

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Dead Birds	Week	10 / 49					
	YTD	41 / 459					
Chicken Sera	Week	0 / 88	0 / 88	0 / 88			
	YTD	0 / 1,074	0 / 1,074	0 / 1,074			
Mosquito Pools	Week	53 / 2,698	5 / 2,698	0 / 2,697	0 / 0	0 / 0	0 / 0
	YTD	84 / 14,269	8 / 14,234	0 / 14,233	0 / 98	0 / 98	0 / 98

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Los Angeles	Greater Los Angeles Co VCD - SFS	Long Beach	90808	American Crow	6/13/2023	WNV
Placer	Placer MVCD	Roseville	95747	California Scrub-Jay	6/18/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Elverta	95626	California Scrub-Jay	6/13/2023	WNV
San Joaquin	San Joaquin Co MVCD	Stockton	95210	American Crow	6/16/2023	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95130	American Crow	6/15/2023	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	6/20/2023	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95120	American Crow	6/20/2023	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95148	Northern Mockingbird	6/21/2023	WNV
Tulare	Delta MVCD	Visalia	93277	American Crow	6/21/2023	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	California Scrub-Jay	6/18/2023	WNV

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus
Fresno	FRNO 87	462	Cx. quinquefasciatus	Fresno	50	GRVD	6/21/23	SLEV
Imperial	IMPR 51	73	Cx. tarsalis	Imperial	5	BGSENT	6/20/23	SLEV
Kern	KERN 1006	729	Cx. quinquefasciatus	Bakersfield	50	GRVD	6/16/23	SLEV
Kern	KERN 162	725	Cx. quinquefasciatus	Bakersfield	44	BGSENT	6/15/23	WNV
Kern	KERN 167	675	Cx. tarsalis	Bakersfield	50	BGSENT	6/14/23	WNV
Kern	KERN 170	739	Cx. tarsalis	Bakersfield	50	BGSENT	6/16/23	WNV
Kern	KERN 2039	702	Cx. quinquefasciatus	Bakersfield	48	GRVD	6/15/23	SLEV
Kern	WEST 6304	27	Cx. quinquefasciatus	Taft	17	GRVD	6/21/23	WNV
Los Angeles	GRLA 2936	5269	Cx. quinquefasciatus	Burbank	50	GRVD	6/15/23	WNV
Los Angeles	SGVA 1022	221	Cx. quinquefasciatus	Azusa	50	GRVD	6/20/23	WNV
Los Angeles	SGVA 1217	214	Cx. quinquefasciatus	Covina	50	GRVD	6/20/23	WNV
Los Angeles	SGVA 1281	213	Cx. quinquefasciatus	Covina	50	GRVD	6/20/23	WNV
Los Angeles	SGVA 451	228	Cx. quinquefasciatus	Glendora	50	GRVD	6/22/23	WNV
Los Angeles	SGVA 458	229	Cx. quinquefasciatus	Covina	50	GRVD	6/22/23	WNV
Los Angeles	SGVA 461	241	Cx. quinquefasciatus	La Puente	50	GRVD	6/21/23	WNV
Los Angeles	SGVA 62	232	Cx. quinquefasciatus	Covina	50	GRVD	6/22/23	WNV
Los Angeles	SGVA 972	216	Cx. quinquefasciatus	Covina	50	GRVD	6/20/23	WNV
Placer	PLCR 139	300	Cx. tarsalis	Roseville	28	CO2	6/20/23	WNV
Riverside	COAV 5	3113	Cx. tarsalis	Oasis	50	CO2	6/20/23	SLEV
Sacramento	SAYO 212021	1128	Cx. pipiens	Sacramento	8	GRVD	6/20/23	WNV
Sacramento	SAYO 381843	994	Cx pipiens	Sacramento	50	BGSENT	6/14/23	WNV
Sacramento	SAYO 381843	996	Cx tarsalis	Sacramento	9	BGSENT	6/14/23	WNV

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Sacramento	SAYO 393837	992	Cx pipiens	Sacramento	20	BGSENT	6/14/23	WNV
Sacramento	SAYO 398560	1358	Cx. pipiens	Sacramento	44	BGSENT	6/21/23	WNV
Sacramento	SAYO 405222	1341	Cx. pipiens	Sacramento	11	BGSENT	6/21/23	WNV
San Joaquin	SJCM 8003	758	Cx. pipiens	Tracy	50	CO2	6/21/23	WNV
San Joaquin	SJCM 8003	759	Cx. pipiens	Tracy	32	CO2	6/21/23	WNV
San Joaquin	SJCM 8008	631	Cx. tarsalis	Manteca	100	CO2	6/21/23	WNV
San Joaquin	SJCM 8008	632	Cx. tarsalis	Manteca	100	CO2	6/21/23	WNV
San Joaquin	SJCM 8100	685	Cx. tarsalis	Tracy	50	CO2	6/21/23	WNV
San Joaquin	SJCM 8100	686	Cx. tarsalis	Tracy	50	CO2	6/21/23	WNV
San Joaquin	SJCM 8100	689	Cx. tarsalis	Tracy	50	CO2	6/21/23	WNV
San Joaquin	SJCM 8100	690	Cx. tarsalis	Tracy	50	CO2	6/21/23	WNV
San Joaquin	SJCM 8100	691	Cx. tarsalis	Tracy	50	CO2	6/21/23	WNV
San Joaquin	SJCM 8100	692	Cx. tarsalis	Tracy	46	CO2	6/21/23	WNV
San Joaquin	SJCM 8100	694	Cx. pipiens	Tracy	50	CO2	6/21/23	WNV
San Joaquin	SJCM 8100	695	Cx. pipiens	Tracy	50	CO2	6/21/23	WNV
San Joaquin	SJCM 8100	696	Cx. pipiens	Tracy	13	CO2	6/21/23	WNV
San Joaquin	SJCM 8222	769	Cx. tarsalis	Stockton	50	CO2	6/23/23	WNV
San Joaquin	SJCM 8222	770	Cx. tarsalis	Stockton	50	CO2	6/23/23	WNV
San Joaquin	SJCM 8229	791	Cx. tarsalis	Stockton	5	CO2	6/23/23	WNV
San Joaquin	SJCM 8248	697	Cx. tarsalis	Tracy	54	CO2	6/21/23	WNV
San Joaquin	SJCM 8248	698	Cx. pipiens	Tracy	31	CO2	6/21/23	WNV
Stanislaus	TRLK 410	719	Cx. tarsalis	Ceres	50	CO2	6/20/23	WNV
Tulare	DLTA 851432	2643	Cx. quinquefasciatus	Visalia	50	CO2	6/13/23	WNV
Tulare	DLTA 851432	2652	Cx. quinquefasciatus	Visalia	50	CO2	6/13/23	WNV
Tulare	DLTA 851432	2653	Cx. quinquefasciatus	Visalia	50	CO2	6/13/23	WNV
Tulare	DLTA 8527	2135	Cx. quinquefasciatus	Visalia	45	GRVD	6/8/23	WNV
Tulare	DLTA 85301	2430	Cx. quinquefasciatus	VISALIA	39	GRVD	6/13/23	WNV
Tulare	DLTA 8532	2673	Cx. quinquefasciatus	Visalia	43	GRVD	6/14/23	WNV
Tulare	DLTA 8533	2354	Cx. quinquefasciatus	Visalia	50	BGSENT	6/9/23	WNV
Tulare	DLTA 8533	2454	Cx. quinquefasciatus	Visalia	43	GRVD	6/13/23	WNV
Tulare	DLTA 8533	2455	Cx. quinquefasciatus	Visalia	10	GRVD	6/13/23	WNV
Tulare	DLTA 8534	2447	Cx. quinquefasciatus	Visalia	50	GRVD	6/13/23	WNV
Tulare	DLTA 8534	2448	Cx. quinquefasciatus	Visalia	50	GRVD	6/13/23	WNV
Tulare	DLTA 8534	2481	Cx. quinquefasciatus	Visalia	49	BGSENT	6/13/23	WNV
Tulare	DLTA 9504	2438	Cx. quinquefasciatus	Visalia	17	GRVD	6/13/23	WNV
Tulare	DLTA 95041	2504	Cx. quinquefasciatus	Visalia	34	BGSENT	6/13/23	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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