

California Arbovirus Surveillance Bulletin #13

Week 27 Friday, July 7, 2023



WEEKLY UPDATE

Humans

West Nile virus

No human cases of West Nile virus (WNV) have been reported.

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 human case of SLEV reported for Kern County this year.** In 2023, 1 human case of SLEV has been reported from 1 county: Kern (1). At this time last year, no human cases of SLEV had been reported.

Dead Birds

A total of 14 new WNV positive dead birds were reported this week from 3 counties: Sacramento (10), Santa Clara (1), and Ventura (3). **This is the first detection of a WNV positive dead bird and the first detection of WNV activity in Ventura County this year.** In 2023, 65 WNV positive dead birds have been reported from 11 counties. At this time last year, 20 WNV positive dead birds had been reported from 9 counties.

Mosquito Pools

West Nile virus

A total of 135 new WNV positive mosquito pools were identified from 11 counties: Fresno (1), Kern (3), Kings (5), Los Angeles (6), Placer (10), Sacramento (31), San Joaquin (37), Solano (2), Stanislaus (9), Tulare (20), and Yolo (11). **This is the first detection of WNV activity in Fresno and Kings counties and the first detection of WNV positive pools in Solano County this year.** In 2023, 283 WNV positive mosquito pools have been reported from 14 counties. At this time last year, 222 WNV positive mosquito pools had been reported from 17 counties.

St. Louis encephalitis virus

A total of 25 new SLEV positive mosquito pools were identified from 2 counties: Kern (3) and Riverside (22). In 2023, 49 SLEV positive mosquito pools were reported from 4 counties: Fresno (4), Imperial (1), Kern (8), and Riverside (36). At this time last year, 2 SLEV positive pools had been reported from 2 counties.

Sentinel Chickens

No seroconversions have been reported in 2023.

2022 & 2023 YTD West Nile Virus Comparisons		
	2022	2023
Total No. Dead Bird Reports	2,480	2,772
No. Positive Counties	20	17
No. Human Cases	0	0
No. Positive Dead Birds / No. Tested	20 / 611	65 / 607
No. Positive Mosquito Pools / No. Tested	222 / 12,548	283 / 19,332
No. Seroconversions / No. Tested	0 / 1,838	0 / 1,370

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YTD WNV Activity by Element and County, 2023					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Alameda			2	1	
Butte				1	
Fresno				1	
Kern				10	
Kings				5	
Los Angeles			9	26	
Merced				1	
Placer			3	14	
Riverside			4		
Sacramento			25	50	
San Joaquin			3	80	
Santa Clara			12		
Solano			1	2	
Stanislaus				19	
Tulare			2	58	
Ventura			3		
Yolo			1	15	
Totals	0	0	65	283	0

TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	0	1	0
	YTD	0	1	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
Dead Birds	Week	14 / 53					
	YTD	65 / 607					
Chicken Sera	Week	0 / 110	0 / 110	0 / 110			
	YTD	0 / 1,370	0 / 1,370	0 / 1,370			
Mosquito Pools	Week	135 / 2,077	25 / 1,997	0 / 1,997	0 / 8	0 / 8	0 / 8
	YTD	283 / 19,332	49 / 18,968	0 / 18,967	0 / 160	0 / 160	0 / 160

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NEW POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Sacramento	Sacramento-Yolo MVCD	Antelope	95843	Mourning Dove	6/29/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	California Scrub-Jay	6/29/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	California Scrub-Jay	7/4/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Fair Oaks	95628	House Finch	6/29/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	6/28/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	American Crow	6/29/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	American Crow	6/29/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95823	American Crow	6/30/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95820	American Crow	7/3/2023	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95835	American Crow	7/5/2023	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95139	House Sparrow	6/26/2023	WNV
Ventura	Ventura Co Env Health Dept	Simi Valley	93063	Cooper's Hawk	6/20/2023	WNV
Ventura	Ventura Co Env Health Dept	Thousand Oaks	91360	House Finch	6/19/2023	WNV
Ventura	Ventura Co Env Health Dept	Ventura	93003	American Crow	6/21/2023	WNV

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus
Fresno	CNSL 1087	142	Cx tarsalis	Fresno	50	CO2	6/27/2023	WNV
Kern	KERN 2002	936	Cx quinquefasciatus	Bakersfield	50	GRVD	6/30/2023	WNV
Kern	KERN 2012	945	Cx quinquefasciatus	Bakersfield	27	CO2	6/30/2023	SLEV
Kern	KERN 3011	931	Cx tarsalis	Bakersfield	34	CO2	6/29/2023	WNV
Kern	KERN 3013	918	Cx tarsalis	Bakersfield	50	CO2	6/29/2023	SLEV
Kern	KERN 3027	874	Cx tarsalis	Arvin	50	CO2	6/27/2023	SLEV
Kern	KERN 3031	866	Cx tarsalis	Shafter	50	CO2	6/27/2023	WNV
Kings	KNGS 3062	180	Cx tarsalis	Lemoore	50	CO2	6/28/2023	WNV
Kings	KNGS 3083	165	Cx tarsalis	Lemoore	50	CO2	6/28/2023	WNV
Kings	KNGS 8038	174	Cx tarsalis	Lemoore	50	CO2	6/28/2023	WNV
Kings	KNGS 9005	160	Cx tarsalis	Nas Lemoore	50	CO2	6/28/2023	WNV
Kings	KNGS 9005	162	Cx tarsalis	Nas Lemoore	50	CO2	6/28/2023	WNV
Los Angeles	GRLA 3036	5337	Cx quinquefasciatus	Canoga Park	50	GRVD	6/29/2023	WNV
Los Angeles	SGVA 1000	267	Cx quinquefasciatus	Azusa	50	GRVD	7/6/2023	WNV
Los Angeles	SGVA 1216	271	Cx quinquefasciatus	Covina	50	GRVD	7/6/2023	WNV
Los Angeles	SGVA 1281	276	Cx quinquefasciatus	Covina	50	GRVD	7/6/2023	WNV
Los Angeles	SGVA 508	278	Cx quinquefasciatus	Covina	50	GRVD	7/6/2023	WNV
Los Angeles	SGVA 62	263	Cx quinquefasciatus	Covina	50	GRVD	7/6/2023	WNV
Placer	PLCR 1113	514	Cx tarsalis	Pleasant Grove	50	CO2	7/4/2023	WNV
Placer	PLCR 1113	515	Cx tarsalis	Pleasant Grove	50	CO2	7/4/2023	WNV
Placer	PLCR 1113	516	Cx tarsalis	Pleasant Grove	50	CO2	7/4/2023	WNV
Placer	PLCR 1113	517	Cx tarsalis	Pleasant Grove	50	CO2	7/4/2023	WNV
Placer	PLCR 1113	518	Cx tarsalis	Pleasant Grove	50	CO2	7/4/2023	WNV
Placer	PLCR 197802	473	Cx tarsalis	Elverta	50	CO2	7/4/2023	WNV
Placer	PLCR 25	502	Cx tarsalis	Lincoln	50	CO2	7/4/2023	WNV
Placer	PLCR 30	487	Cx pipiens	Lincoln	42	CO2	7/4/2023	WNV
Placer	PLCR 30	488	Cx tarsalis	Lincoln	35	CO2	7/4/2023	WNV
Placer	PLCR 678519	512	Cx tarsalis	Elverta	50	CO2	7/4/2023	WNV
Riverside	COAV 0	3433	Cx tarsalis	Indio	41	CO2	7/7/23	SLEV
Riverside	COAV 0	3442	Cx tarsalis	Indio	50	CO2	7/7/23	SLEV
Riverside	COAV 0	3443	Cx tarsalis	Indio	50	CO2	7/7/23	SLEV
Riverside	COAV 0	3444	Cx tarsalis	Indio	50	CO2	7/7/23	SLEV
Riverside	COAV 0	3445	Cx tarsalis	Indio	50	CO2	7/7/23	SLEV
Riverside	COAV 0	3446	Cx tarsalis	Indio	32	CO2	7/7/23	SLEV
Riverside	COAV 0	3448	Cx tarsalis	Indio	39	CO2	7/7/23	SLEV
Riverside	COAV 0	3450	Cx quinquefasciatus	Indio	50	CO2	7/7/23	SLEV
Riverside	COAV 130	3413	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV
Riverside	COAV 130	3415	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV
Riverside	COAV 130	3416	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV

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Riverside	COAV 131	3471	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV
Riverside	COAV 131	3472	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV
Riverside	COAV 2	3344	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV
Riverside	COAV 2	3346	Cx tarsalis	Oasis	24	CO2	7/6/2023	SLEV
Riverside	COAV 34	3348	Cx tarsalis	Mecca	10	CO2	7/6/2023	SLEV
Riverside	COAV 37	3500	Cx tarsalis	Mecca	50	CO2	7/6/2023	SLEV
Riverside	COAV 45	3435	Cx tarsalis	Mecca	27	CO2	7/7/23	SLEV
Riverside	COAV 5	3342	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV
Riverside	COAV 56	3440	Cx tarsalis	North Shore	49	CO2	7/7/23	SLEV
Riverside	COAV 6	3530	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV
Riverside	COAV 610	3422	Cx tarsalis	Oasis	50	CO2	7/6/2023	SLEV
Sacramento	SAYO 204020	2236	Cx tarsalis	Sacramento	6	CO2	7/5/2023	WNV
Sacramento	SAYO 204020	2245	Cx pipiens	Sacramento	35	GRVD	7/5/2023	WNV
Sacramento	SAYO 204043	2219	Cx tarsalis	Citrus Heights	50	CO2	7/5/2023	WNV
Sacramento	SAYO 213017	2190	Cx pipiens	Sacramento	50	GRVD	7/5/2023	WNV
Sacramento	SAYO 214011	1999	Cx pipiens	Fair Oaks	50	CO2	6/30/2023	WNV
Sacramento	SAYO 223006	2194	Cx pipiens	South Watt Avenue	7	CO2	7/5/2023	WNV
Sacramento	SAYO 223019	2214	Cx pipiens	Sacramento	41	GRVD	7/5/2023	WNV
Sacramento	SAYO 223035	1944	Cx pipiens	Sacramento	50	CO2	6/30/2023	WNV
Sacramento	SAYO 223041	1887	Cx pipiens	Sacramento	28	CO2	6/30/2023	WNV
Sacramento	SAYO 223041	1888	Cx tarsalis	Sacramento	24	CO2	6/30/2023	WNV
Sacramento	SAYO 233009	2091	Cx pipiens	Elk Grove	50	GRVD	7/5/2023	WNV
Sacramento	SAYO 233016	2050	Cx pipiens	Sacramento	7	CO2	7/5/2023	WNV
Sacramento	SAYO 233054	1802	Cx pipiens	Sacramento	50	CO2	6/30/2023	WNV
Sacramento	SAYO 233054	1804	Cx tarsalis	Sacramento	50	CO2	6/30/2023	WNV
Sacramento	SAYO 233054	1805	Cx tarsalis	Sacramento	30	CO2	6/30/2023	WNV
Sacramento	SAYO 233054	1807	Cx tarsalis	Sacramento	16	GRVD	6/30/2023	WNV
Sacramento	SAYO 271007	1991	Cx tarsalis	Isleton	50	CO2	6/30/2023	WNV
Sacramento	SAYO 316491	1730	Cx tarsalis	Sacramento	14	BGSENT	6/29/2023	WNV
Sacramento	SAYO 393834	1719	Cx tarsalis	Sacramento	2	BGSENT	6/29/2023	WNV
Sacramento	SAYO 394265	2007	Cx tarsalis	Sacramento	4	BGSENT	7/1/2023	WNV
Sacramento	SAYO 394970	1721	Cx tarsalis	Sacramento	6	BGSENT	6/29/2023	WNV
Sacramento	SAYO 401546	1778	Cx pipiens	Sacramento	50	BGSENT	6/29/2023	WNV
Sacramento	SAYO 401546	1779	Cx pipiens	Sacramento	5	BGSENT	6/29/2023	WNV
Sacramento	SAYO 402005	1750	Cx tarsalis	Sacramento	42	BGSENT	6/29/2023	WNV
Sacramento	SAYO 402059	1763	Cx pipiens	Sacramento	32	BGSENT	6/29/2023	WNV
Sacramento	SAYO 405087	1725	Cx tarsalis	Sacramento	49	BGSENT	6/29/2023	WNV
Sacramento	SAYO 405397	1714	Cx pipiens	Sacramento	19	BGSENT	6/29/2023	WNV
Sacramento	SAYO 405397	1715	Cx tarsalis	Sacramento	17	BGSENT	6/29/2023	WNV
Sacramento	SAYO 409686	1748	Cx tarsalis	Sacramento	32	BGSENT	6/29/2023	WNV
Sacramento	SAYO 409955	1757	Cx pipiens	Sacramento	24	BGSENT	6/29/2023	WNV
Sacramento	SAYO 410139	1773	Cx tarsalis	Sacramento	41	BGSENT	6/29/2023	WNV
San Joaquin	SJCM 8003	1147	Cx tarsalis	Tracy	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8008	1104	Cx tarsalis	Manteca	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8008	1105	Cx tarsalis	Manteca	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8008	1106	Cx tarsalis	Manteca	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8008	1108	Cx tarsalis	Manteca	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8010	1157	Cx tarsalis	Ripon	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8010	1158	Cx tarsalis	Ripon	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8010	1159	Cx tarsalis	Ripon	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8025	1162	Cx tarsalis	Stockton	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8029	1255	Cx pipiens	Farmington	50	CO2	7/7/2023	WNV
San Joaquin	SJCM 8048	1240	Cx tarsalis	Stockton	50	CO2	7/7/2023	WNV
San Joaquin	SJCM 8056	1203	Cx tarsalis	Manteca	100	FAYPRINCE	7/5/2023	WNV
San Joaquin	SJCM 8056	1205	Cx tarsalis	Manteca	80	FAYPRINCE	7/5/2023	WNV
San Joaquin	SJCM 8077	1093	Cx tarsalis	Stockton	50	FAYPRINCE	7/5/2023	WNV
San Joaquin	SJCM 8083	1100	Cx tarsalis	Escalon	48	FAYPRINCE	7/5/2023	WNV
San Joaquin	SJCM 8094	1068	Cx tarsalis	Manteca	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8100	1150	Cx tarsalis	Tracy	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8100	1151	Cx tarsalis	Tracy	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8100	1155	Cx pipiens	Tracy	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8100	1156	Cx pipiens	Tracy	55	CO2	7/5/2023	WNV

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San Joaquin	SJCM 8160	1133	Cx tarsalis	Lodi	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8161	1114	Cx tarsalis	Ripon	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8161	1115	Cx tarsalis	Ripon	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8161	1116	Cx tarsalis	Ripon	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8161	1117	Cx tarsalis	Ripon	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8161	1118	Cx tarsalis	Ripon	21	CO2	7/5/2023	WNV
San Joaquin	SJCM 8161	1119	Cx pipiens	Ripon	34	CO2	7/5/2023	WNV
San Joaquin	SJCM 8205	1239	Cx pipiens	Farmington	37	CO2	7/7/2023	WNV
San Joaquin	SJCM 8211	1078	Cx tarsalis	Stockton	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8219	1179	Cx tarsalis	Stockton	100	CO2	7/5/2023	WNV
San Joaquin	SJCM 8219	1186	Cx tarsalis	Stockton	100	CO2	7/5/2023	WNV
San Joaquin	SJCM 8222	1245	Cx tarsalis	Stockton	50	CO2	7/7/2023	WNV
San Joaquin	SJCM 8222	1246	Cx tarsalis	Stockton	50	CO2	7/7/2023	WNV
San Joaquin	SJCM 8222	1247	Cx tarsalis	Stockton	13	CO2	7/7/2023	WNV
San Joaquin	SJCM 8222	1248	Cx pipiens	Stockton	14	CO2	7/7/2023	WNV
San Joaquin	SJCM 8233	1172	Cx tarsalis	Stockton	50	CO2	7/5/2023	WNV
San Joaquin	SJCM 8248	1139	Cx pipiens	Tracy	50	CO2	7/5/2023	WNV
Solano	SOLA 27	140	Cx tarsalis	Dixon	18	CO2	7/6/2023	WNV
Solano	SOLA 38	143	Cx tarsalis	Dixon	50	CO2	7/6/2023	WNV
Stanislaus	TRLK 1209	892	Cx pipiens	Ceres	50	CO2	7/6/2023	WNV
Stanislaus	TRLK 1209	897	Cx tarsalis	Ceres	50	CO2	7/6/2023	WNV
Stanislaus	TRLK 1214	903	Cx pipiens	Turlock	46	CO2	7/6/2023	WNV
Stanislaus	TRLK 1308	911	Cx tarsalis	Turlock	40	CO2	7/6/2023	WNV
Stanislaus	TRLK 1309	931	Cx pipiens	Hughson	50	CO2	7/6/2023	WNV
Stanislaus	TRLK 1312	887	Cx pipiens	Ceres	45	CO2	7/6/2023	WNV
Stanislaus	TRLK 17152	912	Cx pipiens	Denair	50	CO2	7/6/2023	WNV
Stanislaus	TRLK 1906	926	Cx pipiens	Hughson	29	CO2	7/6/2023	WNV
Stanislaus	TRLK 410	899	Cx tarsalis	Ceres	39	CO2	7/6/2023	WNV
Tulare	DLTA 6420	3610	Cx quinquefasciatus	Dinuba	26	BGSENT	6/23/2023	WNV
Tulare	DLTA 8414	3658	Cx quinquefasciatus	Visalia	48	BGSENT	6/23/2023	WNV
Tulare	DLTA 8423	3641	Cx quinquefasciatus	Visalia	50	BGSENT	6/23/2023	WNV
Tulare	DLTA 8427	3797	Cx quinquefasciatus	Visalia	28	GRVD	6/28/2023	WNV
Tulare	DLTA 84344	3662	Cx quinquefasciatus	Visalia	27	BGSENT	6/23/2023	WNV
Tulare	DLTA 84363	3568	Cx quinquefasciatus	Visalia	50	BGSENT	6/22/2023	WNV
Tulare	DLTA 8519	3709	Cx quinquefasciatus	Visalia	50	BGSENT	6/27/2023	WNV
Tulare	DLTA 8520	3501	Cx quinquefasciatus	Visalia	38	GRVD	6/22/2023	WNV
Tulare	DLTA 8520	3678	Cx quinquefasciatus	Visalia	18	GRVD	6/27/2023	WNV
Tulare	DLTA 8520	3832	Cx quinquefasciatus	Visalia	50	BGSENT	6/28/2023	WNV
Tulare	DLTA 8521	3722	Cx quinquefasciatus	Visalia	50	BGSENT	6/27/2023	WNV
Tulare	DLTA 8529	3759	Cx quinquefasciatus	Visalia	50	GRVD	6/27/2023	WNV
Tulare	DLTA 85301	3717	Cx quinquefasciatus	Visalia	50	GRVD	6/27/2023	WNV
Tulare	DLTA 85304	3640	Cx quinquefasciatus	Visalia	28	BGSENT	6/23/2023	WNV
Tulare	DLTA 8532	3798	Cx quinquefasciatus	Visalia	22	GRVD	6/28/2023	WNV
Tulare	DLTA 8536	3691	Cx quinquefasciatus	Farmersville	15	BGSENT	6/27/2023	WNV
Tulare	DLTA 9504	3747	Cx quinquefasciatus	Visalia	50	GRVD	6/27/2023	WNV
Tulare	DLTA 9505	3545	Cx quinquefasciatus	Visalia	30	BGSENT	6/22/2023	WNV
Tulare	DLTA 9607	3687	Cx quinquefasciatus	Farmersville	36	GRVD	6/27/2023	WNV
Tulare	DLTA 9607	3782	Cx tarsalis	Farmersville	41	BGSENT	6/27/2023	WNV
Yolo	SAYO 103007	2129	Cx pipiens	Dunnigan	50	GRVD	7/5/2023	WNV
Yolo	SAYO 135005	1863	Cx pipiens	Woodland	26	GRVD	6/30/2023	WNV
Yolo	SAYO 135016	1838	Cx tarsalis	Woodland	50	CO2	6/30/2023	WNV
Yolo	SAYO 136010	2098	Cx tarsalis	Woodland	50	CO2	7/5/2023	WNV
Yolo	SAYO 136010	2099	Cx tarsalis	Woodland	50	CO2	7/5/2023	WNV
Yolo	SAYO 136010	2101	Cx tarsalis	Woodland	50	CO2	7/5/2023	WNV
Yolo	SAYO 136010	2102	Cx tarsalis	Woodland	50	CO2	7/5/2023	WNV
Yolo	SAYO 145030	2145	Cx pipiens	Davis	26	CO2	7/5/2023	WNV
Yolo	SAYO 146002	2105	Cx pipiens	Davis	17	CO2	7/5/2023	WNV
Yolo	SAYO 146002	2108	Cx tarsalis	Davis	50	CO2	7/5/2023	WNV
Yolo	SAYO 146003	2159	Cx tarsalis	Davis	50	CO2	7/5/2023	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>.

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