

## California Arbovirus Surveillance Bulletin #27

Week 41 Friday, October 13, 2023



### WEEKLY UPDATE

#### Humans

##### West Nile virus

A total of 40 new human cases of West Nile virus (WNV) were reported this week from 14 counties: Butte (1), Contra Costa (2), Fresno (1), Kern (4), Los Angeles (3), Madera (1), Monterey (1), Riverside (2), Sacramento (10), San Bernardino (3), Shasta (1), Stanislaus (7), Ventura (1), and Yolo (3). **These are the first WNV human cases reported for Monterey and Ventura counties this year.** In 2023, a total of 244 human cases of WNV have been reported from 30 counties. Of the 244 cases, 176 (72%) had neuroinvasive disease and 7 (3%) were fatal. The median age of the case-patients was 57 years and 158 (65%) of the case-patients were male. The dates of symptom onset ranged from June 30 to September 22. In addition to the 244 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, 93 WNV human cases had been reported from 20 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 63 new WNV positive dead birds were reported from 13 counties: Alameda (4), Contra Costa (30), Lake (1), Los Angeles (5), Napa (1), Orange (1), Riverside (3), Sacramento (3), San Mateo (4), Santa Clara (5), Solano (1), Sonoma (3), and Yolo (2). **This is the first WNV positive dead bird reported for Orange County this year.** In 2023, 806 WNV positive dead birds have been reported from 30 counties. At this time last year, 181 WNV positive dead birds had been reported from 23 counties.

#### Mosquito Pools

##### West Nile virus

A total of 83 new WNV positive mosquito pools were reported from 14 counties: Contra Costa (4), Fresno (4), Kern (4), Kings (4), Los Angeles (23), Orange (10), Riverside (16), Sacramento (1), San Bernardino (1), San Joaquin (3), Santa Clara (1), Stanislaus (1), Tulare (10), and Yolo (1). In 2023, 4,305 WNV positive mosquito pools have been reported from 31 counties. At this time last year, 3,057 WNV positive mosquito pools had been reported from 26 counties.

##### St. Louis encephalitis virus

A total of 52 new SLEV positive mosquito pools were reported from 6 counties: Fresno (9), Kern (8), Kings (13), Riverside (2), San Joaquin (1), and Tulare (19). In 2023, 691 SLEV positive mosquito pools have been reported from 15 counties. At this time last year, 147 SLEV positive mosquito pools had been reported from 9 counties.

#### Sentinel Chickens

##### West Nile virus

A total of 12 new WNV positive chickens were reported this week from 5 counties: Contra Costa (1), Los Angeles (8), Sacramento (1), San Benito (1), and Yolo (1). In 2023, 179 WNV positive chickens have been reported from 17 counties. At this time last year, 139 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.

## California Arbovirus Surveillance Bulletin #27

Week 41 Friday, October 13, 2023

<b>2022 &amp; 2023 YTD West Nile Virus Comparisons</b>		
	<b>2022</b>	<b>2023</b>
Total No. Dead Bird Reports	4,377	6,037
No. Positive Counties	32	42
No. Human Cases	93	244
No. Positive Dead Birds / No. Tested	181 / 1,195	806 / 1,864
No. Positive Mosquito Pools / No. Tested	3,057 / 37,501	4,305 / 48,688
No. Seroconversions / No. Tested	139 / 4,702	179 / 3,332

<b>YTD WNV Activity by Element and County, 2023</b>					
<b>County</b>	<b>Humans*</b>	<b>Horses</b>	<b>Dead Birds</b>	<b>Mosquito Pools</b>	<b>Sentinel Chickens</b>
Alameda			66	15	3
Butte	18	1	2	69	32
Calaveras					3
Colusa	1		2	2	5
Contra Costa	4		91	22	8
El Dorado	2		4		
Fresno	6	2	1	229	
Glenn	4			1	
Imperial				3	
Inyo				2	
Kern	8	2		107	
Kings	6	1		70	
Lake	4		8	25	
Los Angeles	21		41	498	27
Madera	5	1	1	207	
Marin	1		2		
Merced	8	2		43	22
Monterey	1				
Napa		1	4	7	
Nevada	1		1		2
Orange	2	1	1	154	
Placer	5	1	43	177	
Riverside	12	1	67	146	
Sacramento	29	3	193	341	6
San Benito			1		5
San Bernardino	18	1	11	150	
San Diego			7	1	
San Joaquin	12	2	20	604	
San Luis Obispo		2	1		
San Mateo			12		
Santa Clara	1	1	103	16	
Shasta	6		2	151	5
Siskiyou		1			
Solano	4		18	24	11
Sonoma			16	3	
Stanislaus	21	2	6	293	
Sutter	5		6	66	19
Tehama					4
Tulare	14	1	5	560	10
Ventura	1		4		
Yolo	19		67	293	10
Yuba	5	1		26	7
<b>Totals</b>	<b>244</b>	<b>27</b>	<b>806</b>	<b>4,305</b>	<b>179</b>

\*Asymptomatic human infections are not included.

## California Arbovirus Surveillance Bulletin #27

Week 41 Friday, October 13, 2023

YTD SLEV Activity by Element and County, 2023			
County	Humans	Mosquito Pools	Sentinel Chickens
Fresno		154	
Imperial		3	
Inyo		1	
Kern	1	71	
Kings		44	
Madera		47	
Merced		12	
Napa		1	
Placer		1	
Riverside		115	
San Joaquin		8	
Shasta		3	1
Stanislaus	2	23	
Tulare		205	
Yolo		3	
<b>Totals</b>	<b>3</b>	<b>691</b>	<b>1</b>

### TESTING SUMMARIES

		WNV	SLEV	WEEV
<b>Human Cases</b>	Week	40	0	0
	YTD	244	3	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
<b>Dead Birds</b>	Week	63 / 100					
	YTD	806 / 1,864					
<b>Chicken Sera</b>	Week	12 / 106	0 / 106	0 / 106			
	YTD	179 / 3,332	1 / 3,332	0 / 3,332			
<b>Mosquito Pools</b>	Week	83 / 1,357	52 / 1,205	0 / 1,019	0 / 56	0 / 56	0 / 56
	YTD	4,305 / 48,688	691 / 43,794	0 / 43,665	0 / 800	0 / 800	0 / 800

## California Arbovirus Surveillance Bulletin #27

Week 41 Friday, October 13, 2023

### NEW POSITIVES

#### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Fremont	94536	American Crow	2023-10-07	WNV
Alameda	Alameda Co MAD	Fremont	94538	American Crow	2023-10-10	WNV
Alameda	Alameda Co MAD	Union City	94587	Unknown - Crow or Raven	2023-10-05	WNV
Alameda	Alameda Co MAD	fremont	94536	American Crow	2023-10-05	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	2023-09-26	WNV
Contra Costa	Contra Costa MVCD	Brentwood	94513	American Crow	2023-10-04	WNV
Contra Costa	Contra Costa MVCD	Clayton	94517	American Crow	2023-09-30	WNV
Contra Costa	Contra Costa MVCD	Clyde	94520	American Crow	2023-09-27	WNV
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	2023-09-29	WNV
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	2023-09-30	WNV
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	2023-10-01	WNV
Contra Costa	Contra Costa MVCD	Concord	94518	American Crow	2023-10-01	WNV
Contra Costa	Contra Costa MVCD	Concord	94520	American Crow	2023-10-02	WNV
Contra Costa	Contra Costa MVCD	Concord	94518	American Crow	2023-10-03	WNV
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	2023-10-06	WNV
Contra Costa	Contra Costa MVCD	Concord	94521	American Crow	2023-10-10	WNV
Contra Costa	Contra Costa MVCD	Concord	94520	California Scrub-Jay	2023-09-30	WNV
Contra Costa	Contra Costa MVCD	Crockett	94525	American Crow	2023-09-26	WNV
Contra Costa	Contra Costa MVCD	Danville	94526	American Crow	2023-09-26	WNV
Contra Costa	Contra Costa MVCD	Danville	94506	American Crow	2023-09-27	WNV
Contra Costa	Contra Costa MVCD	Danville	94526	American Crow	2023-10-02	WNV
Contra Costa	Contra Costa MVCD	Danville	94526	California Scrub-Jay	2023-09-27	WNV
Contra Costa	Contra Costa MVCD	Martinez	94553	Red-tailed Hawk	2023-10-03	WNV
Contra Costa	Contra Costa MVCD	Pittsburg	94565	American Crow	2023-09-28	WNV
Contra Costa	Contra Costa MVCD	Pleasant Hill	94523	American Crow	2023-10-01	WNV
Contra Costa	Contra Costa MVCD	Richmond	94805	American Crow	2023-10-06	WNV
Contra Costa	Contra Costa MVCD	Richmond	94805	American Crow	2023-10-09	WNV
Contra Costa	Contra Costa MVCD	Walnut Creek	94597	American Crow	2023-09-24	WNV
Contra Costa	Contra Costa MVCD	Walnut Creek	94598	American Crow	2023-09-29	WNV
Contra Costa	Contra Costa MVCD	Walnut Creek	94597	American Crow	2023-09-30	WNV
Contra Costa	Contra Costa MVCD	Walnut Creek	94595	American Crow	2023-10-02	WNV
Contra Costa	Contra Costa MVCD	Walnut Creek	94598	American Crow	2023-10-06	WNV
Contra Costa	Contra Costa MVCD	Walnut Creek	94596	American Crow	2023-10-09	WNV
Contra Costa	Contra Costa MVCD	Walnut Creek	94597	American Crow	2023-10-09	WNV
Lake	Lake Co VCD	Lakeport	95453	American Crow	2023-09-27	WNV
Los Angeles	Greater Los Angeles Co VCD	Long Beach	90808	American Crow	2023-09-26	WNV
Los Angeles	Greater Los Angeles Co VCD	Long Beach	90808	American Crow	2023-10-09	WNV
Los Angeles	Greater Los Angeles Co VCD	Montebello	90640	American Crow	2023-10-10	WNV
Los Angeles	Los Angeles Co West VCD	Los Angeles	90066	American Crow	2023-09-25	WNV
Los Angeles	Los Angeles Co West VCD	Marina Del Rey	90292	American Crow	2023-09-27	WNV
Napa	Napa Co MAD	St Helena	94574	American Crow	2023-10-02	WNV
Orange	Orange Co VCD	Tustin	92782	American Crow	2023-09-28	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	2023-09-26	WNV
Riverside	Northwest Mosquito VCD	Corona	92880	American Crow	2023-09-28	WNV
Riverside	Northwest Mosquito VCD	Riverside	92504	American Crow	2023-09-26	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	House Finch	2023-10-03	WNV
Sacramento	Sacramento-Yolo MVCD	Rancho Cordova	95670	White-breasted Nuthatch	2023-10-11	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95831	House Finch	2023-10-09	WNV
San Mateo	San Mateo Co MVCD	Belmont	94003	American Crow	2023-10-06	WNV
San Mateo	San Mateo Co MVCD	Redwood City	94065	American Crow	2023-09-29	WNV
San Mateo	San Mateo Co MVCD	Redwood City	94063	American Crow	2023-10-02	WNV
San Mateo	San Mateo Co MVCD	Redwood City	94063	American Crow	2023-10-02	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	2023-10-12	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	2023-10-12	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	Unknown - Crow or Raven	2023-10-05	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95128	American Crow	2023-10-03	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95130	American Crow	2023-10-11	WNV
Solano	Solano Co MAD	Fairfield	94534	American Crow	2023-09-29	WNV
Sonoma	Marin-Sonoma MVCD	Cotati	94931	American Crow	2023-10-05	WNV
Sonoma	Marin-Sonoma MVCD	Petaluma	94954	American Crow	2023-10-02	WNV

## California Arbovirus Surveillance Bulletin #27

Week 41 Friday, October 13, 2023

Sonoma	Marin-Sonoma MVCD	Santa Rosa	95401	American Crow	2023-10-06	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	2023-10-06	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	California Scrub-Jay	2023-10-08	WNV

### Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus
Contra Costa	CNTR 2202	1532	Cx tarsalis	Martinez	37	CO2	10/3/2023	WNV
Contra Costa	CNTR 4013	1541	Cx tarsalis	Concord	19	CO2	10/3/2023	WNV
Contra Costa	CNTR 476	1526	Cx pipiens	Martinez	50	CO2	10/3/2023	WNV
Contra Costa	CNTR 8202	1528	Cx tarsalis	Discovery Bay	13	CO2	10/3/2023	WNV
Fresno	CNSL 1765	333	Cx quinquefasciatus	Clovis	32	GRVD	10/4/2023	WNV
Fresno	CNSL 6324	332	Cx tarsalis	Riverdale	50	CO2	10/3/2023	SLEV
Fresno	FRNO 112	925	Cx quinquefasciatus	Fresno	50	GRVD	9/26/2023	SLEV
Fresno	FRNO 116	973	Cx quinquefasciatus	Fresno	30	GRVD	10/11/2023	SLEV
Fresno	FRNO 172	928	Cx quinquefasciatus	Fresno	18	GRVD	9/26/2023	SLEV
Fresno	FRNO 19	974	Cx quinquefasciatus	Fresno	50	GRVD	10/11/2023	SLEV
Fresno	FRNO 219	944	Cx quinquefasciatus	Fresno	10	GRVD	9/28/2023	SLEV
Fresno	FRNO 27	940	Cx quinquefasciatus	Fresno	32	GRVD	9/28/2023	WNV
Fresno	FRNO 273	941	Cx quinquefasciatus	Fresno	19	GRVD	9/28/2023	SLEV
Fresno	FRNO 92	949	Cx quinquefasciatus	Fresno	50	GRVD	9/28/2023	WNV
Fresno	FRWS 200003	499	Cx tarsalis	Dos Palos	50	CO2	10/10/2023	SLEV
Fresno	FRWS 4102	481	Cx tarsalis	Kerman	50	CO2	10/10/2023	SLEV
Fresno	FRWS 5110	475	Cx tarsalis	Tranquillity	50	CO2	10/10/2023	WNV
Kern	KERN 134	1255	Cx quinquefasciatus	Bakersfield	24	BGSENT	9/29/2023	SLEV
Kern	KERN 148	1254	Cx quinquefasciatus	Bakersfield	20	BGSENT	9/29/2023	SLEV
Kern	KERN 152	1238	Cx quinquefasciatus	Bakersfield	24	BGSENT	9/26/2023	WNV
Kern	KERN 152	1238	Cx quinquefasciatus	Bakersfield	24	BGSENT	9/26/2023	SLEV
Kern	KERN 166	1251	Cx quinquefasciatus	Bakersfield	36	BGSENT	9/28/2023	WNV
Kern	KERN 2003	1260	Cx quinquefasciatus	Bakersfield	34	GRVD	10/4/2023	SLEV
Kern	KERN 2033	1253	Cx quinquefasciatus	Bakersfield	25	GRVD	9/29/2023	SLEV
Kern	KERN 3019	1261	Cx quinquefasciatus	Bakersfield	30	CO2	10/4/2023	SLEV
Kern	KERN 3034	1263	Cx quinquefasciatus	Bakersfield	22	GRVD	10/4/2023	SLEV
Kern	KERN 3035	1249	Cx quinquefasciatus	Bakersfield	33	CO2	9/27/2023	WNV
Kern	KERN 3070	1246	Cx quinquefasciatus	Bakersfield	28	CO2	9/27/2023	WNV
Kern	KERN 3070	1246	Cx quinquefasciatus	Bakersfield	28	CO2	9/27/2023	SLEV
Kings	KNGS 3019	458	Cx tarsalis	Stratford	50	CO2	10/3/2023	WNV
Kings	KNGS 3019	458	Cx tarsalis	Stratford	50	CO2	10/3/2023	SLEV
Kings	KNGS 3019	460	Cx tarsalis	Stratford	50	CO2	10/3/2023	SLEV
Kings	KNGS 3019	492	Cx tarsalis	Stratford	50	CO2	10/10/2023	SLEV
Kings	KNGS 3022	484	Cx tarsalis	Hanford	50	CO2	10/6/2023	SLEV
Kings	KNGS 3062	496	Cx tarsalis	Lemoore	50	CO2	10/10/2023	SLEV
Kings	KNGS 3083	467	Cx tarsalis	Lemoore	50	CO2	10/4/2023	SLEV
Kings	KNGS 3122	486	Cx tarsalis	Hanford	50	CO2	10/6/2023	SLEV
Kings	KNGS 3122	488	Cx tarsalis	Hanford	50	CO2	10/6/2023	SLEV
Kings	KNGS 3127	482	Cx tarsalis	Corcoran	50	CO2	10/5/2023	WNV
Kings	KNGS 3127	482	Cx tarsalis	Corcoran	50	CO2	10/5/2023	SLEV
Kings	KNGS 3131	451	Cx pipiens	Stratford	33	CO2	10/3/2023	WNV
Kings	KNGS 8022	495	Cx pipiens	Lemoore	46	CO2	10/10/2023	SLEV
Kings	KNGS 9005	453	Cx tarsalis	Nas Lemoore	50	CO2	10/3/2023	SLEV
Kings	KNGS 9005	454	Cx tarsalis	Nas Lemoore	50	CO2	10/3/2023	WNV
Kings	KNGS 9005	454	Cx tarsalis	Nas Lemoore	50	CO2	10/3/2023	SLEV
Kings	KNGS 9005	456	Cx tarsalis	Nas Lemoore	50	CO2	10/3/2023	SLEV
Los Angeles	GRLA 2081	844	Cx quinquefasciatus	Lynwood	50	GRVD	10/5/2023	WNV
Los Angeles	GRLA 2270	841	Cx quinquefasciatus	Bellflower	50	GRVD	10/5/2023	WNV
Los Angeles	GRLA 2521	5892	Cx quinquefasciatus	Los Feliz	50	BGSENT	10/5/2023	WNV
Los Angeles	GRLA 2552	5893	Cx quinquefasciatus	Glendale	50	GRVD	10/5/2023	WNV
Los Angeles	GRLA 2637	5871	Cx quinquefasciatus	Van Nuys	50	GRVD	10/3/2023	WNV
Los Angeles	GRLA 2650	5872	Cx quinquefasciatus	Van Nuys	50	GRVD	10/3/2023	WNV
Los Angeles	GRLA 2889	835	Cx quinquefasciatus	Lakewood	50	GRVD	10/4/2023	WNV
Los Angeles	GRLA 2890	836	Cx quinquefasciatus	Lakewood	50	GRVD	10/4/2023	WNV
Los Angeles	GRLA 2918	5899	Cx quinquefasciatus	Sunland	50	GRVD	10/6/2023	WNV
Los Angeles	GRLA 3049	853	Cx quinquefasciatus	Downey	50	GRVD	10/5/2023	WNV
Los Angeles	GRLA 3071	857	Cx quinquefasciatus	East Los Angeles	50	GRVD	10/6/2023	WNV
Los Angeles	GRLA 3074	862	Cx quinquefasciatus	Lincoln Heights	50	GRVD	10/6/2023	WNV

## California Arbovirus Surveillance Bulletin #27

Week 41 Friday, October 13, 2023

Los Angeles	GRLA 3088	5903	Cx quinquefasciatus	Pacoima	35	BGSENT	10/6/2023	WNV
Los Angeles	GRLA 3098	5888	Cx quinquefasciatus	Silver Lake	50	GRVD	10/5/2023	WNV
Los Angeles	GRLA 3132	5880	Cx quinquefasciatus	Eagle Rock	50	GRVD	10/4/2023	WNV
Los Angeles	GRLA 3133	5896	Cx quinquefasciatus	San Fernando	50	GRVD	10/6/2023	WNV
Los Angeles	SGVA 1065	965	Cx quinquefasciatus	Claremont	25	GRVD	10/11/2023	WNV
Los Angeles	SGVA 1065	966	Cx quinquefasciatus	Claremont	26	GRVD	10/11/2023	WNV
Los Angeles	SGVA 1124	961	Cx quinquefasciatus	Claremont	50	GRVD	10/11/2023	WNV
Los Angeles	SGVA 1348	970	Cx quinquefasciatus	Claremont	27	GRVD	10/11/2023	WNV
Los Angeles	SGVA 1350	962	Cx quinquefasciatus	Claremont	27	GRVD	10/11/2023	WNV
Los Angeles	SGVA 448	945	Cx quinquefasciatus	La Verne	44	GRVD	10/10/2023	WNV
Los Angeles	SGVA 597	958	Cx quinquefasciatus	Bradbury	28	GRVD	10/11/2023	WNV
Orange	ORCO 1005	4612	Cx quinquefasciatus	Buena Park	50	GRVD	10/10/2023	WNV
Orange	ORCO 218	4602	Cx quinquefasciatus	Anaheim	17	GRVD	10/10/2023	WNV
Orange	ORCO 218	4623	Cx quinquefasciatus	Anaheim	36	GRVD	10/10/2023	WNV
Orange	ORCO 238	4683	Cx quinquefasciatus	Anaheim	42	GRVD	10/11/2023	WNV
Orange	ORCO 306	4658	Cx quinquefasciatus	Villa Park	23	GRVD	10/10/2023	WNV
Orange	ORCO 330	4636	Cx quinquefasciatus	Fullerton	16	GRVD	10/10/2023	WNV
Orange	ORCO 365	4725	Cx quinquefasciatus	Huntington Beach	28	GRVD	10/12/2023	WNV
Orange	ORCO 370	4648	Cx quinquefasciatus	Santa Ana	39	GRVD	10/10/2023	WNV
Orange	ORCO 7	4731	Cx quinquefasciatus	Seal Beach	50	GRVD	10/12/2023	WNV
Orange	ORCO 81	4711	Cx quinquefasciatus	Seal Beach	27	GRVD	10/12/2023	WNV
Riverside	COAV 130	6770	Cx tarsalis	Oasis	50	CO2	10/11/2023	WNV
Riverside	COAV 130	6772	Cx tarsalis	Oasis	50	CO2	10/11/2023	WNV
Riverside	COAV 130	6773	Cx tarsalis	Oasis	50	CO2	10/11/2023	WNV
Riverside	COAV 34	6585	Cx tarsalis	Mecca	50	CO2	10/11/2023	WNV
Riverside	COAV 37	6572	Cx tarsalis	Mecca	50	CO2	10/11/2023	WNV
Riverside	COAV 536	6691	Cx quinquefasciatus	Thermal	50	CO2	10/12/2023	SLEV
Riverside	COAV 538	6694	Cx tarsalis	Thermal	50	CO2	10/12/2023	WNV
Riverside	COAV 543	6795	Cx tarsalis	Thermal	50	CO2	10/12/2023	SLEV
Riverside	COAV 610	6774	Cx tarsalis	Oasis	50	CO2	10/11/2023	WNV
Riverside	COAV 610	6775	Cx tarsalis	Oasis	50	CO2	10/11/2023	WNV
Riverside	COAV 610	6776	Cx tarsalis	Oasis	50	CO2	10/11/2023	WNV
Riverside	COAV 780	6383	Cx quinquefasciatus	Palm Desert	16	BGSENT	10/5/2023	WNV
Riverside	COAV 8	6727	Cx tarsalis	Oasis	50	CO2	10/11/2023	WNV
Riverside	COAV 816	6521	Cx quinquefasciatus	Indian Wells	13	BGSENT	10/6/2023	WNV
Riverside	COAV 817	6526	Cx quinquefasciatus	Indian Wells	50	BGSENT	10/6/2023	WNV
Riverside	COAV 843	6509	Cx tarsalis	Mecca	50	BGSENT	10/6/2023	WNV
Riverside	COAV 844	6515	Cx tarsalis	Mecca	47	BGSENT	10/6/2023	WNV
Riverside	NWST 219	316	Cx quinquefasciatus	Norco	43	GRVD	10/4/2023	WNV
Sacramento	SAYO 271007	7574	Cx pipiens	Isleton	9	GRVD	10/6/2023	WNV
San Bernardino	WVAL 5005	2865	Cx quinquefasciatus	Rancho Cucamonga	12	GRVD	10/11/2023	WNV
San Joaquin	SJCM 8018	3055	Cx tarsalis	Stockton	47	CO2	10/10/2023	WNV
San Joaquin	SJCM 8143	3058	Cx tarsalis	Stockton	49	CO2	10/10/2023	WNV
San Joaquin	SJCM 8161	3046	Cx pipiens	Ripon	50	CO2	10/10/2023	WNV
San Joaquin	SJCM 8253	3033	Cx tarsalis	Linden	12	CO2	10/10/2023	SLEV
Santa Clara	STCL 31513	2927	Cx pipiens	San Jose	6	CO2-EVS	8/31/2023	WNV
Stanislaus	TRLK 408	1938	Cx pipiens	Turlock	38	CO2	10/10/2023	WNV
Tulare	DLTA 632263	6456	Cx quinquefasciatus	Delft Colony	29	CO2	9/26/2023	SLEV
Tulare	DLTA 6408	6557	Cx quinquefasciatus	Dinuba	50	BGSENT	9/28/2023	WNV
Tulare	DLTA 6408	6557	Cx quinquefasciatus	Dinuba	50	BGSENT	9/28/2023	SLEV
Tulare	DLTA 64163	6561	Cx quinquefasciatus	Dinuba	50	BGSENT	9/28/2023	SLEV
Tulare	DLTA 65203	6571	Cx stigmatosoma	Cutler	27	BGSENT	9/28/2023	SLEV
Tulare	DLTA 653232	6610	Cx quinquefasciatus	Yetttem	50	CO2	9/28/2023	SLEV
Tulare	DLTA 653232	6615	Cx quinquefasciatus	Yetttem	50	CO2	9/28/2023	SLEV
Tulare	DLTA 653232	6616	Cx quinquefasciatus	Yetttem	40	CO2	9/28/2023	SLEV
Tulare	DLTA 653232	6617	Cx stigmatosoma	Yetttem	50	CO2	9/28/2023	SLEV
Tulare	DLTA 653232	6618	Cx stigmatosoma	Yetttem	10	CO2	9/28/2023	WNV
Tulare	DLTA 75024	6605	Cx quinquefasciatus	Seville	50	CO2	9/28/2023	SLEV
Tulare	DLTA 8324	6642	Cx quinquefasciatus	Goshen	50	BGSENT	9/29/2023	SLEV
Tulare	DLTA 8324	6656	Cx quinquefasciatus	Goshen	50	BGSENT	9/29/2023	WNV
Tulare	DLTA 8324	6657	Cx quinquefasciatus	Goshen	19	BGSENT	9/29/2023	WNV
Tulare	DLTA 84193	6576	Cx quinquefasciatus	Visalia	28	BGSENT	9/28/2023	WNV
Tulare	DLTA 84223	6542	Cx quinquefasciatus	Visalia	50	BGSENT	9/28/2023	SLEV
Tulare	DLTA 84223	6543	Cx quinquefasciatus	Visalia	50	BGSENT	9/28/2023	SLEV
Tulare	DLTA 84363	6579	Cx quinquefasciatus	Visalia	42	BGSENT	9/28/2023	SLEV
Tulare	DLTA 8531	6590	Cx tarsalis	Visalia	15	BGSENT	9/28/2023	SLEV

## California Arbovirus Surveillance Bulletin #27

Week 41 Friday, October 13, 2023

Tulare	DLTA 8534	6372	Cx quinquefasciatus	Visalia	15	BGSENT	9/22/2023	WNV
Tulare	DLTA 9402	6707	Cx quinquefasciatus	Visalia	50	BGSENT	10/3/2023	SLEV
Tulare	DLTA 9505	6652	Cx quinquefasciatus	Visalia	45	BGSENT	9/29/2023	WNV
Tulare	DLTA 96033	6586	Cx quinquefasciatus	Exeter	50	BGSENT	9/28/2023	SLEV
Tulare	DLTA 960434	6682	Cx quinquefasciatus	Exeter	50	CO2	9/29/2023	WNV
Tulare	DLTA 96103	6572	Cx quinquefasciatus	Exeter	50	BGSENT	9/28/2023	SLEV
Tulare	DLTA 96103	6574	Cx stigmatosoma	Exeter	47	BGSENT	9/28/2023	WNV
Tulare	DLTA 961233	6691	Cx stigmatosoma	Exeter	50	CO2	9/29/2023	SLEV
Tulare	DLTA 961314	6673	Cx stigmatosoma	Exeter	20	CO2	9/29/2023	WNV
Tulare	DLTA 961314	6673	Cx stigmatosoma	Exeter	20	CO2	9/29/2023	SLEV
Yolo	SAYO 123006	7653	Cx pipiens	Esparto	13	CO2	10/6/2023	WNV

### Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03
Contra Costa	CNTR 8152	Knightsen	10/9/2023	WNV	1908		
Los Angeles	LACW 1002	Torrance	9/25/2023	WNV	2006	2009	
Los Angeles	LACW 1005	El Segundo	10/5/2023	WNV	2025		
Los Angeles	LACW 1073	Los Angeles	10/3/2023	WNV	2072	2073	2075
Los Angeles	LONG 3	Long Beach	10/9/2023	WNV	2928	2929	
Sacramento	SAYO 261013	Isleton	10/12/2023	WNV	2692		
San Benito	SBVC 0	Hollister	10/11/2023	WNV	1961		
Yolo	SAYO 103013	Dunnigan	10/9/2023	WNV	2680		

**TEST PROTOCOLS**

## California Arbovirus Surveillance Bulletin #27

Week 41 Friday, October 13, 2023

### **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](mailto:Hannah.romo@cdph.ca.gov)*