

## California Arbovirus Surveillance Bulletin #25

Week 39 Friday, September 29, 2023



### WEEKLY UPDATE

#### Humans

##### West Nile virus

A total of 29 new human cases of West Nile virus (WNV) were reported this week from 14 counties: Colusa (1), Contra Costa (1), Fresno (3), Kings (2), Los Angeles (4), Merced (2), Nevada (1), Placer (1), Riverside (2), San Bernardino (2), San Joaquin (2), Stanislaus (6), Sutter (1), and Yolo (1). **These are the first human cases of WNV reported from Colusa and Nevada counties this year.** In 2023, a total of 183 human cases of WNV have been reported from 27 counties. Of the 183 cases, 134 (73%) had neuroinvasive disease and 6 (3%) were fatal. The median age of the case-patients was 59 years and 125 (68%) of the case-patients were male. The dates of symptom onset ranged from June 30 to September 11. In addition to the 183 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, 81 WNV human cases had been reported from 16 counties.

##### St. Louis encephalitis virus

A single (1) case of St. Louis encephalitis virus (SLEV) was reported this week from 1 county: Stanislaus (1). In 2023, 3 SLEV human cases have been reported from 2 counties. At this time last year, 6 SLEV human cases had been reported from 4 counties.

#### Dead Birds

A total of 42 new WNV positive dead birds were reported from 9 counties: Alameda (11), Los Angeles (1), Sacramento (4), San Joaquin (1), San Luis Obispo (1), San Mateo (1), Santa Clara (13), Sonoma (2), and Yolo (8). **This is the first WNV positive dead bird for San Luis Obispo County this year.** In 2023, 696 WNV positive dead birds have been reported from 30 counties. At this time last year, 166 WNV positive dead birds had been reported from 22 counties.

#### Mosquito Pools

##### West Nile virus

A total of 152 new WNV positive mosquito pools were reported from 17 counties: Alameda (3), Butte (1), Fresno (12), Kern (3), Los Angeles (38), Madera (3), Merced (2), Orange (29), Riverside (23), Sacramento (3), San Bernardino (5), San Diego (1), San Joaquin (6), Shasta (4), Stanislaus (5), Tulare (13), and Yolo (1). **This is the first WNV positive mosquito pool from San Diego this year.** In 2023, 4,135 WNV positive mosquito pools have been reported from 31 counties. At this time last year, 2,925 WNV positive mosquito pools had been reported from 26 counties.

##### St. Louis encephalitis virus

A total of 63 new SLEV positive mosquito pools were reported from 9 counties: Fresno (21), Kern (2), Madera (4), Merced (1), Riverside (3), San Joaquin (1), Stanislaus (1), Tulare (29) and Yolo (1). In 2023, 615 SLEV positive mosquito pools have been reported from 15 counties. At this time last year, 130 SLEV positive mosquito pools had been reported from 8 counties.

#### Sentinel Chickens

##### West Nile virus

A total of 8 new WNV positive chickens were reported this week from 2 counties: Los Angeles (6) and Yolo (2). In 2023, 163 WNV positive chickens have been reported from 17 counties. At this time last year, 123 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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<b>2022 &amp; 2023 YTD West Nile Virus Comparisons</b>		
	<b>2022</b>	<b>2023</b>
Total No. Dead Bird Reports	4,138	5,695
No. Positive Counties	32	41
No. Human Cases	81	183
No. Positive Dead Birds / No. Tested	166 / 1,125	696 / 1,694
No. Positive Mosquito Pools / No. Tested	2,925 / 34,191	4,135 / 45,548
No. Seroconversions / No. Tested	123 / 4,384	163 / 3,128

<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			58	15	3
Butte	17	1	2	69	31
Calaveras					3
Colusa	1		2	2	2
Contra Costa	2		50	18	7
El Dorado	1		3		
Fresno	5	2	1	224	
Glenn	4			1	
Imperial				3	
Inyo				2	
Kern	4	2		102	
Kings	6	1		66	
Lake	4		6	25	
Los Angeles	18		34	438	19
Madera	4	1	1	207	
Marin			2		
Merced	5	1		43	22
Napa		1	3	7	
Nevada	1		1		2
Orange	1	1		121	
Placer	3	1	43	177	
Riverside	7	1	60	127	
Sacramento	19	3	189	339	5
San Benito			1		4
San Bernardino	14	1	11	147	
San Diego			4	1	
San Joaquin	12	2	20	597	
San Luis Obispo		2	1		
San Mateo			3		
Santa Clara	1	1	90	14	
Shasta	3		2	145	5
Siskiyou		1			
Solano	1		15	24	11
Sonoma			11	2	
Stanislaus	14	2	6	285	
Sutter	5		6	66	19
Tehama					4
Tulare	15	1	5	550	10
Ventura			3		
Yolo	11		63	292	9
Yuba	5	1		26	7
<b>Totals</b>	<b>183</b>	<b>26</b>	<b>696</b>	<b>4,135</b>	<b>163</b>

\*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		135	
Imperial		3	
Inyo		1	
Kern	1	61	
Kings		30	
Madera		47	
Merced		9	
Napa		1	
Placer		1	
Riverside		111	
San Joaquin		6	
Shasta		3	1
Stanislaus	2	18	
Tulare		186	
Yolo		3	
<b>Totals</b>	<b>3</b>	<b>615</b>	<b>1</b>

### TESTING SUMMARIES

		WNV	SLEV	WEEV
<b>Human Cases</b>	Week	29	1	0
	YTD	183	3	0

		Positive / Total Tested					
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA
<b>Dead Birds</b>	Week	42 / 53					
	YTD	696 / 1,694					
<b>Chicken Sera</b>	Week	8 / 97	0 / 97	0 / 97			
	YTD	163 / 3,128	1 / 3,128	0 / 3,128			
<b>Mosquito Pools</b>	Week	152 / 2,226	63 / 1,966	0 / 1,966	0 / 21	0 / 21	0 / 21
	YTD	4,135 / 45,548	615 / 41,064	0 / 41,121	0 / 652	0 / 652	0 / 652

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### NEW POSITIVES

#### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported
Alameda	Alameda Co MAD	Dublin	94568	American Crow	9/28/2023
Alameda	Alameda Co MAD	Fremont	94538	Unknown - Crow or Raven	9/22/2023
Alameda	Alameda Co MAD	Hayward	94545	American Crow	9/28/2023
Alameda	Alameda Co MAD	Livermore	94550	American Crow	9/21/2023
Alameda	Alameda Co MAD	Livermore	94550	American Crow	9/25/2023
Alameda	Alameda Co MAD	Livermore	94550	American Crow	9/25/2023
Alameda	Alameda Co MAD	Livermore	94550	American Crow	9/25/2023
Alameda	Alameda Co MAD	Livermore	94550	American Crow	9/28/2023
Alameda	Alameda Co MAD	Livermore	94551	American Crow	9/26/2023
Alameda	Alameda Co MAD	Union City	94587	American Crow	9/18/2023
Alameda	Alameda Co MAD	Union City	94587	American Crow	9/26/2023
Los Angeles	San Gabriel Valley MVCD	La Verne	91750	American Crow	9/26/2023
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95624	American Crow	9/21/2023
Sacramento	Sacramento-Yolo MVCD	Folsom	95630	California Scrub-Jay	9/19/2023
Sacramento	Sacramento-Yolo MVCD	Sacramento	95825	American Crow	9/23/2023
Sacramento	Sacramento-Yolo MVCD	Sacramento	95829	Mourning Dove	9/25/2023
San Joaquin	San Joaquin Co MVCD	Thornton	95686	Red-tailed Hawk	6/26/2023
San Luis Obispo	San Luis Obispo Animal Services	Atascadero	93422	California Scrub-Jay	9/6/2023
San Mateo	Santa Clara Co VCD	Menlo Park	94025	American Crow	9/21/2023
Santa Clara	Santa Clara Co VCD	Los Altos	94024	California Scrub-Jay	9/25/2023
Santa Clara	Santa Clara Co VCD	Morgan Hill	95037	American Crow	9/22/2023
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	9/25/2023
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	9/21/2023
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	9/22/2023
Santa Clara	Santa Clara Co VCD	Palo Alto	94306	American Crow	9/21/2023
Santa Clara	Santa Clara Co VCD	San Jose	95124	American Crow	9/25/2023
Santa Clara	Santa Clara Co VCD	San Jose	95129	American Crow	9/23/2023
Santa Clara	Santa Clara Co VCD	San Jose	95130	California Scrub-Jay	9/25/2023
Santa Clara	Santa Clara Co VCD	San Jose	95131	American Crow	9/23/2023
Santa Clara	Santa Clara Co VCD	San Jose	95132	American Crow	9/22/2023
Santa Clara	Santa Clara Co VCD	Saratoga	95070	California Scrub-Jay	9/22/2023
Santa Clara	Santa Clara Co VCD	Sunnyvale	94089	American Crow	9/24/2023
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95401	California Scrub-Jay	9/21/2023
Sonoma	Marin-Sonoma MVCD	Santa Rosa	95405	California Scrub-Jay	9/20/2023
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/20/2023
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/21/2023
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/22/2023
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/22/2023
Yolo	Sacramento-Yolo MVCD	Davis	95616	Cooper's Hawk	7/16/2023
Yolo	Sacramento-Yolo MVCD	Davis	95616	Cooper's Hawk	7/24/2023
Yolo	Sacramento-Yolo MVCD	Davis	95616	Swainson's Hawk	7/17/2023
Yolo	Sacramento-Yolo MVCD	Davis	95618	Cooper's Hawk	7/28/2023

#### Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap	Collected	Virus
Alameda	ALCO 479147	30819	Cx tarsalis	Fremont	40	CO2	9/26/2023	WNV
Alameda	ALCO 479147	30820	Cx tarsalis	Fremont	40	CO2	9/26/2023	WNV
Alameda	ALCO 568891	30836	Cx pipiens	Livermore	7	CO2	9/27/2023	WNV
Butte	BUCO 34	466	Cx tarsalis	Richvale	48	CO2	9/19/2023	WNV
Fresno	CNSL 1119	314	Cx quinquefasciatus	Fresno	50	GRVD	9/22/2023	WNV
Fresno	CNSL 1447	772	Cx quinquefasciatus	Clovis	50	GRVD	9/21/2023	WNV
Fresno	CNSL 1906	301	Cx quinquefasciatus	Fresno	50	GRVD	9/20/2023	SLEV
Fresno	CNSL 2086	776	Cx quinquefasciatus	Sanger	50	GRVD	9/22/2023	SLEV
Fresno	CNSL 2505	739	Cx quinquefasciatus	Sanger	45	GRVD	9/19/2023	SLEV
Fresno	CNSL 2520	125	Cx quinquefasciatus	Sanger	50	GRVD	9/19/2023	SLEV
Fresno	CNSL 3044	770	Cx quinquefasciatus	Reedley	13	GRVD	9/20/2023	WNV
Fresno	CNSL 3077	306	Cx quinquefasciatus	Orange Cove	46	GRVD	9/21/2023	SLEV

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Fresno	CNSL 3301	775	Cx quinquefasciatus	Parlier	41	GRVD	9/21/2023	WNV
Fresno	CNSL 5039	308	Cx quinquefasciatus	Kingsburg	50	GRVD	9/21/2023	WNV
Fresno	CNSL 5039	308	Cx quinquefasciatus	Kingsburg	50	GRVD	9/21/2023	SLEV
Fresno	CNSL 5064	312	Cx quinquefasciatus	Kingsburg	41	GRVD	9/21/2023	SLEV
Fresno	CNSL 6244	744	Cx quinquefasciatus	Riverdale	38	GRVD	9/19/2023	SLEV
Fresno	CNSL 8011	165	Cx quinquefasciatus	Clovis	45	GRVD	9/19/2023	SLEV
Fresno	CNSL 8228	773	Cx quinquefasciatus	Clovis	32	GRVD	9/21/2023	SLEV
Fresno	CNSL 9004	311	Cx quinquefasciatus	Clovis	50	GRVD	9/21/2023	SLEV
Fresno	CNSL 9104	296	Cx quinquefasciatus	Fresno	50	GRVD	9/20/2023	WNV
Fresno	CNSL 9104	296	Cx quinquefasciatus	Fresno	50	GRVD	9/20/2023	SLEV
Fresno	FRNO 111	924	Cx tarsalis	Fresno	26	CO2	9/21/2023	SLEV
Fresno	FRNO 15	911	Cx quinquefasciatus	Fresno	13	GRVD	9/19/2023	SLEV
Fresno	FRNO 174	894	Cx quinquefasciatus	Fresno	24	GRVD	9/19/2023	SLEV
Fresno	FRNO 278	909	Cx quinquefasciatus	Fresno	17	GRVD	9/19/2023	SLEV
Fresno	FRNO 281	916	Cx quinquefasciatus	Fresno	33	GRVD	9/19/2023	SLEV
Fresno	FRNO 31	908	Cx quinquefasciatus	Fresno	39	GRVD	9/19/2023	WNV
Fresno	FRNO 88	890	Cx quinquefasciatus	Fresno	12	BGSENT	9/19/2023	WNV
Fresno	FRWS 1202	440	Cx tarsalis	Dos Palos	37	CO2	9/26/2023	SLEV
Fresno	FRWS 200001	434	Cx tarsalis	Mendota	50	BGSENT	9/21/2023	WNV
Fresno	FRWS 300026	437	Cx tarsalis	Firebaugh, Ca	50	BGSENT	9/21/2023	WNV
Fresno	FRWS 300031	445	Cx quinquefasciatus	Firebaugh	50	CO2	9/26/2023	SLEV
Fresno	FRWS 4102	450	Cx tarsalis	Kerman	50	CO2	9/26/2023	WNV
Fresno	FRWS 4102	450	Cx tarsalis	Kerman	50	CO2	9/26/2023	SLEV
Fresno	FRWS 4102	451	Cx tarsalis	Kerman	25	CO2	9/26/2023	WNV
Fresno	FRWS 60003	438	Cx tarsalis	Huron	50	BGSENT	9/26/2023	SLEV
Kern	KERN 127	1220	Cx quinquefasciatus	Bakersfield	45	GRVD	9/19/2023	SLEV
Kern	KERN 139	1227	Cx quinquefasciatus	Bakersfield	24	GRVD	9/20/2023	WNV
Kern	KERN 2014	1231	Cx quinquefasciatus	Bakersfield	34	GRVD	9/20/2023	WNV
Kern	KERN 2015	1235	Cx quinquefasciatus	Bakersfield	27	GRVD	9/22/2023	SLEV
Kern	KERN 2025	1226	Cx quinquefasciatus	Bakersfield	22	GRVD	9/20/2023	WNV
Los Angeles	GRLA 2093	770	Cx quinquefasciatus	South Gate	50	GRVD	9/21/2023	WNV
Los Angeles	GRLA 2278	760	Cx quinquefasciatus	Long Beach	50	BGSENT	9/20/2023	WNV
Los Angeles	GRLA 2312	741	Cx quinquefasciatus	San Pedro	50	GRVD	9/19/2023	WNV
Los Angeles	GRLA 2492	5804	Cx quinquefasciatus	La Canada Flintridge	50	GRVD	9/21/2023	WNV
Los Angeles	GRLA 2497	5812	Cx quinquefasciatus	La Canada Flintridge	49	GRVD	9/21/2023	WNV
Los Angeles	GRLA 2500	5795	Cx quinquefasciatus	Elysian Valley	50	GRVD	9/20/2023	WNV
Los Angeles	GRLA 2530	5820	Cx quinquefasciatus	Sunland	39	BGSENT	9/22/2023	WNV
Los Angeles	GRLA 2550	5824	Cx quinquefasciatus	Mission Hills	50	GRVD	9/22/2023	WNV
Los Angeles	GRLA 2574	5787	Cx quinquefasciatus	Sherman Oaks	50	GRVD	9/19/2023	WNV
Los Angeles	GRLA 2580	5785	Cx quinquefasciatus	Sherman Oaks	50	GRVD	9/19/2023	WNV
Los Angeles	GRLA 2651	5786	Cx quinquefasciatus	Sepulveda Basin	50	GRVD	9/19/2023	WNV
Los Angeles	GRLA 2889	758	Cx quinquefasciatus	Lakewood	50	GRVD	9/20/2023	WNV
Los Angeles	GRLA 2918	5817	Cx quinquefasciatus	Sunland	42	GRVD	9/22/2023	WNV
Los Angeles	GRLA 2936	5803	Cx quinquefasciatus	Burbank	50	GRVD	9/20/2023	WNV
Los Angeles	GRLA 3000	5821	Cx quinquefasciatus	Sun Valley	50	BGSENT	9/22/2023	WNV
Los Angeles	GRLA 3046	765	Cx quinquefasciatus	Bellflower	50	GRVD	9/21/2023	WNV
Los Angeles	GRLA 3047	764	Cx quinquefasciatus	Downey	50	GRVD	9/21/2023	WNV
Los Angeles	GRLA 3057	773	Cx quinquefasciatus	Huntington Park	50	GRVD	9/21/2023	WNV
Los Angeles	GRLA 3059	767	Cx quinquefasciatus	Paramount	50	GRVD	9/21/2023	WNV
Los Angeles	GRLA 3088	5823	Cx quinquefasciatus	Pacoima	50	GRVD	9/22/2023	WNV
Los Angeles	GRLA 3133	5815	Cx quinquefasciatus	San Fernando	50	GRVD	9/22/2023	WNV
Los Angeles	LACW 1081	731	Cx tarsalis	Los Angeles	32	CO2	9/12/2023	WNV
Los Angeles	SGVA 1069	848	Cx quinquefasciatus	La Puente	50	GRVD	9/27/2023	WNV
Los Angeles	SGVA 1117	844	Cx quinquefasciatus	West Covina	50	GRVD	9/27/2023	WNV
Los Angeles	SGVA 1119	843	Cx quinquefasciatus	La Verne	50	GRVD	9/26/2023	WNV
Los Angeles	SGVA 1216	833	Cx quinquefasciatus	Covina	50	GRVD	9/26/2023	WNV
Los Angeles	SGVA 1281	849	Cx quinquefasciatus	Covina	50	GRVD	9/27/2023	WNV
Los Angeles	SGVA 316	840	Cx quinquefasciatus	Duarte	50	GRVD	9/26/2023	WNV
Los Angeles	SGVA 455	842	Cx quinquefasciatus	San Dimas	47	GRVD	9/26/2023	WNV
Los Angeles	SGVA 508	828	Cx quinquefasciatus	Covina	50	GRVD	9/26/2023	WNV
Los Angeles	SGVA 508	829	Cx quinquefasciatus	Covina	50	GRVD	9/26/2023	WNV
Los Angeles	SGVA 650	827	Cx quinquefasciatus	Pomona	50	GRVD	9/26/2023	WNV
Los Angeles	SGVA 7	826	Cx quinquefasciatus	Claremont	50	GRVD	9/26/2023	WNV
Los Angeles	SGVA 860	845	Cx quinquefasciatus	Baldwin Park	50	GRVD	9/27/2023	WNV
Los Angeles	SGVA 896	853	Cx quinquefasciatus	La Verne	50	GRVD	9/26/2023	WNV
Los Angeles	SGVA 960	821	Cx quinquefasciatus	Rosemead	50	GRVD	9/26/2023	WNV
Los Angeles	SGVA 965	841	Cx quinquefasciatus	Claremont	50	GRVD	9/26/2023	WNV
Los Angeles	SGVA 972	835	Cx quinquefasciatus	Covina	50	GRVD	9/26/2023	WNV
Madera	MADR 12	643	Cx tarsalis	Madera	25	CO2	9/22/2023	SLEV

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Madera	MADR 227	607	Cx tarsalis	Madera	37	CO2	9/20/2023	SLEV
Madera	MADR 299	619	Cx tarsalis	Chowchilla	31	CO2	9/20/2023	WNV
Madera	MADR 581	630	Cx tarsalis	Madera	7	CO2	9/21/2023	WNV
Madera	MADR 688	624	Cx quinquefasciatus	Madera	7	CO2	9/21/2023	SLEV
Madera	MADR 704	645	Cx tarsalis	Madera	38	CO2	9/22/2023	WNV
Madera	MADR 704	645	Cx tarsalis	Madera	38	CO2	9/22/2023	SLEV
Merced	MERC 638283	775	Cx pipiens	Livingston	11	BGSENT	9/21/2023	WNV
Merced	MERC 818438	805	Cx tarsalis	Merced	44	CO2	9/26/2023	WNV
Merced	MERC 964123	780	Cx tarsalis	Gustine	50	BGSENT	9/22/2023	SLEV
Orange	ORCO 1008	4123	Cx quinquefasciatus	Fullerton	36	GRVD	9/26/2023	WNV
Orange	ORCO 1009	4088	Cx quinquefasciatus	Garden Grove	35	GRVD	9/26/2023	WNV
Orange	ORCO 1009	4134	Cx quinquefasciatus	Garden Grove	44	GRVD	9/26/2023	WNV
Orange	ORCO 1015	4225	Cx quinquefasciatus	Orange	30	GRVD	9/27/2023	WNV
Orange	ORCO 1020	4200	Cx quinquefasciatus	Seal Beach	23	GRVD	9/27/2023	WNV
Orange	ORCO 218	4082	Cx quinquefasciatus	Anaheim	32	GRVD	9/26/2023	WNV
Orange	ORCO 218	4089	Cx quinquefasciatus	Anaheim	50	GRVD	9/26/2023	WNV
Orange	ORCO 218	4137	Cx quinquefasciatus	Anaheim	52	GRVD	9/26/2023	WNV
Orange	ORCO 29	4269	Cx quinquefasciatus	Santa Ana	50	CO2	9/27/2023	WNV
Orange	ORCO 29	4273	Cx quinquefasciatus	Santa Ana	50	CO2	9/27/2023	WNV
Orange	ORCO 29	4274	Cx quinquefasciatus	Santa Ana	50	CO2	9/27/2023	WNV
Orange	ORCO 302	4251	Cx quinquefasciatus	Anaheim	50	GRVD	9/27/2023	WNV
Orange	ORCO 306	4133	Cx quinquefasciatus	Villa Park	40	GRVD	9/26/2023	WNV
Orange	ORCO 317	4159	Cx quinquefasciatus	Fullerton	50	GRVD	9/26/2023	WNV
Orange	ORCO 319	4220	Cx quinquefasciatus	Buena Park	51	GRVD	9/27/2023	WNV
Orange	ORCO 321	4236	Cx quinquefasciatus	Anaheim	50	GRVD	9/27/2023	WNV
Orange	ORCO 321	4237	Cx quinquefasciatus	Anaheim	50	GRVD	9/27/2023	WNV
Orange	ORCO 323	4191	Cx quinquefasciatus	Buena Park	50	GRVD	9/26/2023	WNV
Orange	ORCO 327	4148	Cx quinquefasciatus	Brea	50	GRVD	9/26/2023	WNV
Orange	ORCO 331	4164	Cx quinquefasciatus	Placentia	38	GRVD	9/26/2023	WNV
Orange	ORCO 337	4255	Cx quinquefasciatus	Anaheim	42	GRVD	9/27/2023	WNV
Orange	ORCO 340	4154	Cx quinquefasciatus	Santa Ana	39	GRVD	9/26/2023	WNV
Orange	ORCO 342	4156	Cx quinquefasciatus	Fullerton	20	GRVD	9/26/2023	WNV
Orange	ORCO 347	4162	Cx quinquefasciatus	Santa Ana	30	GRVD	9/26/2023	WNV
Orange	ORCO 348	4180	Cx quinquefasciatus	Santa Ana	26	GRVD	9/26/2023	WNV
Orange	ORCO 351	4203	Cx quinquefasciatus	Westminster	50	GRVD	9/27/2023	WNV
Orange	ORCO 362	4168	Cx quinquefasciatus	Garden Grove	45	GRVD	9/26/2023	WNV
Orange	ORCO 366	4165	Cx quinquefasciatus	Orange	43	GRVD	9/26/2023	WNV
Orange	ORCO 82	4210	Cx quinquefasciatus	Cypress	50	GRVD	9/27/2023	WNV
Riverside	COAV 0	5682	Cx quinquefasciatus	Indio	16	BGSENT	9/27/2023	WNV
Riverside	COAV 0	5941	Cx quinquefasciatus	Indio	8	BGSENT	9/27/2023	WNV
Riverside	COAV 130	5865	Cx tarsalis	Oasis	50	CO2	9/26/2023	WNV
Riverside	COAV 230005	5649	Cx quinquefasciatus	Palm Springs	50	GRVD	9/27/2023	WNV
Riverside	COAV 230008	5683	Cx quinquefasciatus	Palm Springs	23	BGSENT	9/27/2023	WNV
Riverside	COAV 30	5715	Cx tarsalis	Thermal	50	CO2	9/26/2023	WNV
Riverside	COAV 301	5635	Cx quinquefasciatus	Bermuda Dunes	50	GRVD	9/26/2023	WNV
Riverside	COAV 307	5748	Cx quinquefasciatus	Coachella	50	BGSENT	9/26/2023	SLEV
Riverside	COAV 327	5869	Cx quinquefasciatus	Desert Hot Springs	48	CO2	9/27/2023	WNV
Riverside	COAV 328	5643	Cx quinquefasciatus	Palm Desert	50	GRVD	9/26/2023	WNV
Riverside	COAV 346	5727	Cx quinquefasciatus	Thermal	50	BGSENT	9/26/2023	SLEV
Riverside	COAV 346	5728	Cx quinquefasciatus	Thermal	78	BGSENT	9/26/2023	SLEV
Riverside	COAV 422	5523	Cx quinquefasciatus	Coachella	37	BGSENT	9/26/2023	WNV
Riverside	COAV 425	5521	Cx quinquefasciatus	Coachella	50	BGSENT	9/26/2023	WNV
Riverside	COAV 425	5522	Cx quinquefasciatus	Coachella	7	BGSENT	9/26/2023	WNV
Riverside	COAV 542	6000	Cx tarsalis	Thermal	50	CO2	9/29/2023	WNV
Riverside	COAV 543	5976	Cx tarsalis	Thermal	50	CO2	9/29/2023	WNV
Riverside	COAV 6	5719	Cx tarsalis	Oasis	50	CO2	9/26/2023	WNV
Riverside	COAV 6	5720	Cx tarsalis	Oasis	50	CO2	9/26/2023	WNV
Riverside	COAV 6	5722	Cx tarsalis	Oasis	50	CO2	9/26/2023	WNV
Riverside	COAV 605	5639	Cx quinquefasciatus	Indio	29	GRVD	9/26/2023	WNV
Riverside	COAV 68	5813	Cx tarsalis	Mecca	50	CO2	9/26/2023	WNV
Riverside	COAV 799	5745	Cx quinquefasciatus	La Quinta	31	BGSENT	9/26/2023	WNV
Riverside	NWST 32	291	Cx quinquefasciatus	Rubidoux	50	GRVD	9/26/2023	WNV
Riverside	NWST 350	277	Cx quinquefasciatus	Riverside	50	BGSENT	9/20/2023	WNV
Riverside	NWST 69	281	Cx quinquefasciatus	Riverside	50	GRVD	9/20/2023	WNV
Sacramento	SAYO 205028	7109	Cx pipiens	Orangevale	5	CO2	9/22/2023	WNV
Sacramento	SAYO 245002	7147	Cx pipiens	Wilton	2	GRVD	9/22/2023	WNV
Sacramento	SAYO 253016	7125	Cx tarsalis	Galt	50	CO2	9/22/2023	WNV
San Bernardino	SANB 146	374	Cx quinquefasciatus	San Bernardino	20	CO2	9/20/2023	WNV
San Bernardino	WVAL 1156	2560	Cx quinquefasciatus	Ontario	20	BGSENT	9/27/2023	WNV

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San Bernardino	WVAL 466	2621	Cx quinquefasciatus	Ontario	50	BGSENT	9/29/2023	WNV
San Bernardino	WVAL 5005	2499	Cx quinquefasciatus	Rancho Cucamonga	26	GRVD	9/26/2023	WNV
San Bernardino	WVAL 6001	2500	Cx quinquefasciatus	Ontario	19	GRVD	9/26/2023	WNV
San Diego	SAND 18	12402	Cx tarsalis	Del Mar	16	CO2	9/13/2023	WNV
San Joaquin	SJCM 8008	2896	Cx tarsalis	Manteca	50	CO2	9/26/2023	WNV
San Joaquin	SJCM 8011	2913	Cx tarsalis	Ripon	22	CO2	9/26/2023	WNV
San Joaquin	SJCM 8094	2903	Cx tarsalis	Manteca	41	CO2	9/26/2023	SLEV
San Joaquin	SJCM 8206	2929	Cx tarsalis	Lodi	100	CO2	9/26/2023	WNV
San Joaquin	SJCM 8206	2930	Cx tarsalis	Lodi	100	CO2	9/26/2023	WNV
San Joaquin	SJCM 8208	2942	Cx pipiens	Lodi	26	CO2	9/28/2023	WNV
San Joaquin	SJCM 8210	2881	Cx pipiens	Escalon	50	CO2	9/26/2023	WNV
Shasta	SHAS 231	2114	Cx tarsalis	Anderson	14	CO2	9/26/2023	WNV
Shasta	SHAS 628	2124	Cx pipiens	Anderson	35	CO2	9/26/2023	WNV
Shasta	SHAS 719	2158	Cx pipiens	Anderson	31	CO2	9/27/2023	WNV
Shasta	SHAS 724	2100	Cx pipiens	Redding	30	BGPRO-SENT	9/25/2023	WNV
Stanislaus	EAST 1077	23257	Cx pipiens	Modesto	47	GRVD	9/19/2023	WNV
Stanislaus	EAST 2050	23255	Cx pipiens	Modesto	50	GRVD	9/19/2023	WNV
Stanislaus	TRLK 1312	1779	Cx pipiens	Ceres	50	CO2	9/26/2023	WNV
Stanislaus	TRLK 2000	1807	Cx pipiens	Denair	14	CO2	9/26/2023	WNV
Stanislaus	TRLK 408	1784	Cx pipiens	Turlock	50	CO2	9/26/2023	SLEV
Stanislaus	TRLK 432	1793	Cx tarsalis	Turlock	34	CO2	9/26/2023	WNV
Tulare	DLTA 632144	6437	Cx tarsalis	Delft Colony	50	CO2	9/26/2023	SLEV
Tulare	DLTA 632144	6438	Cx tarsalis	Delft Colony	50	CO2	9/26/2023	WNV
Tulare	DLTA 64163	6303	Cx quinquefasciatus	Dinuba	15	GRVD	9/21/2023	SLEV
Tulare	DLTA 6417	6375	Cx quinquefasciatus	Dinuba	14	BGSENT	9/22/2023	SLEV
Tulare	DLTA 73161	6443	Cx quinquefasciatus	Traver	23	BGSENT	9/26/2023	SLEV
Tulare	DLTA 752032	6268	Cx quinquefasciatus	Patterson Tract	50	CO2	9/20/2023	SLEV
Tulare	DLTA 752032	6271	Cx quinquefasciatus	Patterson Tract	50	CO2	9/20/2023	SLEV
Tulare	DLTA 752842	6276	Cx quinquefasciatus	Ivanhoe	50	CO2	9/20/2023	WNV
Tulare	DLTA 752842	6284	Cx quinquefasciatus	Ivanhoe	50	CO2	9/20/2023	SLEV
Tulare	DLTA 752842	6289	Cx quinquefasciatus	Ivanhoe	50	CO2	9/20/2023	WNV
Tulare	DLTA 752842	6292	Cx quinquefasciatus	Ivanhoe	50	CO2	9/20/2023	SLEV
Tulare	DLTA 752842	6293	Cx quinquefasciatus	Ivanhoe	50	CO2	9/20/2023	WNV
Tulare	DLTA 7625	6498	Cx stigmatosoma	Woodlake	11	GRVD	9/27/2023	WNV
Tulare	DLTA 7625	6498	Cx stigmatosoma	Woodlake	11	GRVD	9/27/2023	SLEV
Tulare	DLTA 8324	6376	Cx quinquefasciatus	Goshen	50	BGSENT	9/22/2023	WNV
Tulare	DLTA 8324	6378	Cx quinquefasciatus	Goshen	27	BGSENT	9/22/2023	WNV
Tulare	DLTA 8324	6378	Cx quinquefasciatus	Goshen	27	BGSENT	9/22/2023	SLEV
Tulare	DLTA 8413	6412	Cx quinquefasciatus	Visalia	50	BGSENT	9/26/2023	SLEV
Tulare	DLTA 8413	6462	Cx quinquefasciatus	Visalia	50	BGSENT	9/27/2023	SLEV
Tulare	DLTA 8414	6392	Cx quinquefasciatus	Visalia	50	BGSENT	9/26/2023	SLEV
Tulare	DLTA 841543	6382	Cx quinquefasciatus	Visalia	19	CO2	9/22/2023	SLEV
Tulare	DLTA 8419	6507	Cx quinquefasciatus	Goshen	50	BGSENT	9/27/2023	WNV
Tulare	DLTA 8419	6507	Cx quinquefasciatus	Goshen	50	BGSENT	9/27/2023	SLEV
Tulare	DLTA 842013	6511	Cx quinquefasciatus	Visalia	50	CO2	9/27/2023	WNV
Tulare	DLTA 8422	6407	Cx quinquefasciatus	Goshen	50	BGSENT	9/26/2023	SLEV
Tulare	DLTA 8422	6408	Cx quinquefasciatus	Goshen	50	BGSENT	9/26/2023	SLEV
Tulare	DLTA 84224	6390	Cx quinquefasciatus	Visalia	50	BGSENT	9/26/2023	SLEV
Tulare	DLTA 8423	6467	Cx quinquefasciatus	Visalia	50	BGSENT	9/27/2023	SLEV
Tulare	DLTA 843232	6520	Cx quinquefasciatus	Visalia	29	CO2	9/27/2023	SLEV
Tulare	DLTA 8434	6326	Cx quinquefasciatus	Visalia	33	BGSENT	9/21/2023	SLEV
Tulare	DLTA 84354	6346	Cx quinquefasciatus	Visalia	32	BGSENT	9/21/2023	SLEV
Tulare	DLTA 85143	6328	Cx quinquefasciatus	Visalia	50	BGSENT	9/21/2023	WNV
Tulare	DLTA 8527	6480	Cx quinquefasciatus	Visalia	46	BGSENT	9/27/2023	SLEV
Tulare	DLTA 94021	6192	Cx quinquefasciatus	Visalia	50	BGSENT	9/19/2023	SLEV
Tulare	DLTA 94023	6310	Cx quinquefasciatus	Visalia	29	BGSENT	9/21/2023	WNV
Tulare	DLTA 9506	6509	Cx quinquefasciatus	Visalia	20	BGSENT	9/27/2023	SLEV
Tulare	DLTA 95063	6307	Cx quinquefasciatus	Visalia	13	BGSENT	9/21/2023	WNV
Tulare	DLTA 950924	6340	Cx quinquefasciatus	Visalia	50	CO2	9/21/2023	SLEV
Tulare	DLTA 950924	6343	Cx tarsalis	Visalia	18	CO2	9/21/2023	WNV
Tulare	DLTA 950924	6343	Cx tarsalis	Visalia	18	CO2	9/21/2023	SLEV
Tulare	DLTA 9611	6454	Cx stigmatosoma	Exeter	16	BGSENT	9/26/2023	SLEV
Tulare	DLTA 962621	6323	Cx quinquefasciatus	Exeter	45	CO2	9/21/2023	SLEV
Yolo	SAYO 135020	7321	Cx tarsalis	Woodland	50	CO2	9/27/2023	SLEV
Yolo	SAYO 145005	7227	Cx tarsalis	Davis	50	CO2	9/26/2023	WNV

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### Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02
Los Angeles	LACW 1005	El Segundo	9/21/2023	WNV	2021	
Los Angeles	LACW 1006	Playa Del Rey	9/21/2023	WNV	2030	
Los Angeles	LACW 1007	Baldwin Hills	9/21/2023	WNV	2031	
Los Angeles	LACW 1009	Los Angeles	9/12/2023	WNV	2036	
Los Angeles	LACW 1026	Los Angeles	9/12/2023	WNV	2061	2063
Yolo	SAYO 116006	Knights Landing	9/25/2023	WNV	2687	2700



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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).

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#### **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.

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#### **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.

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#### **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.

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*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)