

## California Arbovirus Surveillance Bulletin #23

Week 37 Friday, September 13, 2024



### WEEKLY UPDATE

#### **Humans**

##### West Nile virus

A total of 13 new human cases of West Nile virus (WNV) disease were reported this week from 8 counties: Butte (1), Fresno (2), Kings (2), Los Angeles (2), Merced (1), Stanislaus (2), Yolo (2), and Yuba (1). **These are the first human cases of WNV disease reported for Los Angeles and Merced counties this year.** In 2024, 51 human cases of WNV disease were reported from 17 counties. Of the 51 cases, 38 (75%) had neuroinvasive disease and 6 (12%) were fatal. The median age of the case-patients was 57 years and 33 (65%) of the case-patients were male. The dates of symptom onset ranged from May 28 to August 24. In addition to the 51 cases of WNV disease, 9 asymptomatic WNV-positive blood donors have been reported from 6 counties: Butte (1), Fresno (3), Los Angeles (1), San Bernardino (2), Santa Clara (1), and Stanislaus (1). At this time last year, 124 human cases of WNV disease had been reported from 24 counties.

##### St. Louis encephalitis virus

No human cases of St. Louis encephalitis virus (SLEV) disease have been reported. At this time last year, 1 human case of SLEV disease had been reported from 1 county.

#### **Dead Birds**

A total of 36 new WNV positive dead birds were reported from 8 counties: Alameda (3), Lake (1), Los Angeles (2), Sacramento (4), San Diego (1), San Mateo (3), Santa Clara (19), and Yolo (3). In 2024, 427 WNV positive dead birds have been reported from 18 counties. At this time last year, 567 WNV positive dead birds had been reported from 28 counties.

#### **Mosquito Pools**

##### West Nile virus

A total of 131 new WNV positive mosquito pools were reported from 21 counties: Alameda (1), Butte (5), Contra Costa (2), Fresno (10), Kern (4), Kings (18), Los Angeles (10), Madera (13), Merced (7), Orange (4), Placer (5), Riverside (1), Sacramento (3), San Joaquin (4), Santa Clara (3), Shasta (4), Solano (1), Stanislaus (2), Sutter (2), Tulare (23), and Yolo (9). In 2024, 1,654 WNV positive mosquito pools have been reported from 25 counties. At this time last year, 3,732 WNV positive mosquito pools had been reported from 30 counties.

##### St. Louis encephalitis virus

A single (1) new SLEV positive mosquito pool was reported from 1 county: Kings (1). In 2024, 19 SLEV positive mosquito pools have been reported from 5 counties: Fresno (10), Imperial (1), Kings (2), Madera (1), and Tulare (5). At this time last year, 436 SLEV positive mosquito pools had been reported from 14 counties.

#### **Sentinel Chickens**

A total of 16 new WNV positive chickens were reported this week from 1 county: Los Angeles (16). In 2024, 116 WNV positive sentinel chickens have been reported from 12 counties. At this time last year, 147 WNV positive chickens had been reported from 17 counties.

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<b>2023 &amp; 2024 YTD West Nile Virus Comparisons</b>		
	<b>2023</b>	<b>2024</b>
Total No. Dead Bird Reports	5,203	5,194
No. Positive Counties	40	30
No. Human Cases	124	51
No. Positive Dead Birds / No. Tested	567 / 1,522	427 / 1,504
No. Positive Mosquito Pools / No. Tested	3,732 / 40,920	1,654 / 36,845
No. Seroconversions / No. Tested	147 / 3,019	116 / 3,626

<b>YTD WNV Activity by Element and County, 2024</b>					
<b>County</b>	<b>Humans</b>	<b>Horses</b>	<b>Dead Birds</b>	<b>Mosquito Pools</b>	<b>Sentinel Chickens</b>
Alameda			46	20	
Butte	10		4	69	26
Colusa			1		
Contra Costa	1		6	9	8
Fresno	4			186	
Imperial				2	
Kern	2			43	
Kings	5			81	
Lake			2	13	5
Los Angeles	2	1	11	130	20
Madera				87	
Merced	1			35	12
Nevada					1
Orange	1		1	37	
Placer		1	2	86	
Riverside	3		2	215	
Sacramento	2	1	59	50	
San Bernardino	3		10	71	
San Diego		1	3		
San Joaquin	1	1	6	148	
San Mateo			26		
Santa Clara	3		239	33	
Shasta				32	2
Solano			2	11	5
Stanislaus	3			45	
Sutter				32	17
Tehama	1				3
Tulare				132	10
Yolo	5		5	57	
Yuba	4	1	2	30	7
<b>Totals</b>	<b>51</b>	<b>6</b>	<b>427</b>	<b>1,654</b>	<b>116</b>

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### TESTING SUMMARIES

		WNV	SLEV	WEEV
<b>Human Cases</b>	Week	13	0	0
	YTD	51	0	0

Positive / Total Tested					
WNV	SLEV	WEEV	CHIK	DENV	ZIKA

<b>Dead Birds</b>	Week	36 / 70
	YTD	427 / 1,504

<b>Chicken Sera</b>	Week	16 / 148	0 / 148	0 / 148
	YTD	116 / 3,626	0 / 3,478	0 / 3,478

<b>Mosquito Pools</b>	Week	131 / 1,698	1 / 1,499	0 / 1,499	0 / 52	0 / 52	0 / 52
	YTD	1,654 / 36,845	19 / 34,108	0 / 34,131	0 / 824	0 / 824	0 / 824

### POSITIVES

#### Dead Birds

County	Submitting Agency	City	Zip Code	Species	Date Reported	Virus
Alameda	Alameda Co MAD	Livermore	94551	American Crow	9/10/2024	WNV
Alameda	Alameda Co MAD	Hayward	94541	American Crow	9/11/2024	WNV
Alameda	Alameda Co MAD	Livermore	94551	American Crow	9/12/2024	WNV
Lake	Lake Co VCD	Hidden Valley Lake	95467	Oak Titmouse	9/3/2024	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Toluca Lake	91602	American Crow	9/4/2024	WNV
Los Angeles	San Gabriel Valley MVCD	West Covina	91791	American Crow	9/12/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	California Scrub-Jay	9/8/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95822	American Crow	9/9/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Elk Grove	95758	American Crow	9/9/2024	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	9/10/2024	WNV
San Diego	San Diego Co VCP	San Diego	92117	American Crow	9/6/2024	WNV
San Mateo	San Mateo Co MVCD	San Carlos	94070	American Crow	9/4/2024	WNV
San Mateo	San Mateo Co MVCD	Menlo Park	94025	American Crow	9/8/2024	WNV
San Mateo	San Mateo Co MVCD	Portola Valley	94028	American Crow	9/9/2024	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	Unknown - Crow or Raven	9/5/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	Unknown - Crow or Raven	9/5/2024	WNV
Santa Clara	Santa Clara Co VCD	Campbell	95008	American Crow	9/5/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	California Scrub-Jay	9/6/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	9/6/2024	WNV
Santa Clara	Santa Clara Co VCD	Mountain View	94043	American Crow	9/6/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95129	Sparrow	9/8/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	9/9/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95126	American Crow	9/9/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Crow	9/9/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95124	Unknown	9/9/2024	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94301	American Crow	9/9/2024	WNV
Santa Clara	Santa Clara Co VCD	Los Altos	94024	American Crow	9/9/2024	WNV

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Santa Clara	Santa Clara Co VCD	Mountain View	94040	Unknown - songbird	9/9/2024	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95050	American Crow	9/9/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95118	American Crow	9/9/2024	WNV
Santa Clara	Santa Clara Co VCD	Campbell	95008	American Crow	9/10/2024	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95126	Unknown	9/10/2024	WNV
Santa Clara	Santa Clara Co VCD	Santa Clara	95050	American Crow	9/10/2024	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	9/5/2024	WNV
Yolo	Sacramento-Yolo MVCD	Woodland	95695	California Scrub-Jay	9/5/2024	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95618	American Crow	9/9/2024	WNV

### Mosquito Pools

County	Site	Pool No	Species	City	Pool Size	Trap	Collected	Virus
Alameda	ALCO 166796	29543	Cx pipiens	Livermore	16	CO2	8/30/2023	WNV
Butte	BUCO 118	368	Cx tarsalis	Chico	50	CO2	9/4/2024	WNV
Butte	BUCO 141	353	Cx tarsalis	Oroville	50	CO2	9/2/2024	WNV
Butte	BUCO 37	350	Cx tarsalis	Honcut	50	CO2	9/2/2024	WNV
Butte	BUCO 37	351	Cx tarsalis	Honcut	21	CO2	9/2/2024	WNV
Butte	BUCO 43	359	Cx tarsalis	Chico	50	CO2	9/2/2024	WNV
Contra Costa	CNTR 7402	1530	Cx pipiens	Oakley	23	CO2	9/4/2024	WNV
Contra Costa	CNTR 8202	1610	Cx pipiens	Discovery Bay	27	CO2	9/10/2024	WNV
Fresno	CNSL 2329	226	Cx quinquefasciatus	Clovis	45	GRVD	9/5/2024	WNV
Fresno	CNSL 2533	538	Cx quinquefasciatus	Sanger	50	GRVD	9/4/2024	WNV
Fresno	CNSL 3502	237	Cx quinquefasciatus	Orange Cove	50	CO2	9/6/2024	WNV
Fresno	CNSL 4395	214	Cx quinquefasciatus	Fresno	38	BGSENT	9/4/2024	WNV
Fresno	CNSL 6281	229	Cx tarsalis	Caruthers	50	CO2	9/5/2024	WNV
Fresno	FRNO 112	541	Cx quinquefasciatus	Fresno	50	GRVD	9/4/2024	WNV
Fresno	FRNO 8	543	Cx tarsalis	Fresno	26	BGSENT	9/4/2024	WNV
Fresno	FRWS 300031	224	Cx tarsalis	Firebaugh	50	CO2	9/4/2024	WNV
Fresno	FRWS 400017	253	Cx tarsalis	Mendota	50	CO2	9/10/2024	WNV
Fresno	FRWS 5101	255	Cx tarsalis	Mendota	50	CO2	9/10/2024	WNV
Kern	KERN 153	364	Cx quinquefasciatus	Bakersfield	30	BGSENT	9/4/2024	WNV
Kern	KERN 2023	358	Cx quinquefasciatus	Bakersfield	40	CO2	9/4/2024	WNV
Kern	KERN 45	354	Cx quinquefasciatus	Buttonwillow	27	CO2	9/4/2024	WNV
Kern	KERN 52	371	Cx quinquefasciatus	Bakersfield	17	GRVD	9/6/2024	WNV
Kings	KNGS 3022	227	Cx pipiens	Hanford	13	CO2	9/6/2024	WNV
Kings	KNGS 3028	207	Cx tarsalis	Hanford	32	CO2	9/4/2024	WNV
Kings	KNGS 3046	200	Cx tarsalis	Hanford	23	CO2	8/27/2024	WNV
Kings	KNGS 3067	193	Cx tarsalis	Riverdale	50	CO2	8/27/2024	WNV
Kings	KNGS 3074	203	Cx pipiens	Armona	32	CO2	8/30/2024	WNV
Kings	KNGS 3078	189	Cx tarsalis	Lemoore	50	CO2	8/27/2024	WNV
Kings	KNGS 3082	228	Cx tarsalis	Lemoore	49	CO2	9/6/2024	WNV
Kings	KNGS 3083	215	Cx tarsalis	Lemoore	41	CO2	9/5/2024	WNV
Kings	KNGS 3098	232	Cx tarsalis	Hardwick	50	CO2	9/6/2024	WNV
Kings	KNGS 3098	233	Cx tarsalis	Hardwick	50	CO2	9/6/2024	WNV
Kings	KNGS 3098	235	Cx pipiens	Hardwick	41	CO2	9/6/2024	WNV
Kings	KNGS 3122	220	Cx tarsalis	Hanford	50	CO2	9/5/2024	WNV
Kings	KNGS 3122	221	Cx tarsalis	Hanford	50	CO2	9/5/2024	SLEV
Kings	KNGS 3130	195	Cx tarsalis	Hardwick	50	CO2	8/27/2024	WNV
Kings	KNGS 3130	196	Cx tarsalis	Hardwick	50	CO2	8/27/2024	WNV
Kings	KNGS 3146	187	Cx tarsalis	Laton	33	CO2	8/27/2024	WNV
Kings	KNGS 3146	188	Cx pipiens	Laton	21	CO2	8/27/2024	WNV
Kings	KNGS 5519	223	Cx tarsalis	Hanford	12	CO2	9/6/2024	WNV
Kings	KNGS 5519	224	Cx pipiens	Hanford	14	CO2	9/6/2024	WNV
Los Angeles	GRLA 2081	699	Cx quinquefasciatus	Lynwood	47	GRVD	9/5/2024	WNV
Los Angeles	GRLA 2512	5831	Cx quinquefasciatus	Atwater Village	38	GRVD	9/5/2024	WNV
Los Angeles	GRLA 3009	5840	Cx quinquefasciatus	Santa Clarita	27	GRVD	9/6/2024	WNV
Los Angeles	GRLA 3062	712	Cx quinquefasciatus	Los Angeles	50	GRVD	9/6/2024	WNV
Los Angeles	GRLA 3105	704	Cx quinquefasciatus	Vernon	30	GRVD	9/5/2024	WNV
Los Angeles	LACW 1047	934	Cx quinquefasciatus	Inglewood	50	CO2	8/29/2024	WNV
Los Angeles	LACW 1048	932	Cx quinquefasciatus	Inglewood	50	CO2	8/29/2024	WNV

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Los Angeles	LACW 1054	931	Cx quinquefasciatus	Inglewood	50	CO2	8/29/2024	WNV
Los Angeles	SGVA 473	653	Cx quinquefasciatus	San Gabriel	34	GRVD	9/10/2024	WNV
Los Angeles	SGVA 961	650	Cx quinquefasciatus	Alhambra	50	GRVD	9/10/2024	WNV
Madera	MADR 1097	552	Cx tarsalis	Madera	50	CO2	9/4/2024	WNV
Madera	MADR 1149	570	Cx tarsalis	Madera	23	CO2	9/6/2024	WNV
Madera	MADR 1153	569	Cx tarsalis	Madera	50	CO2	9/6/2024	WNV
Madera	MADR 12360	544	Cx tarsalis	Madera	49	CO2	9/4/2024	WNV
Madera	MADR 12363	572	Cx quinquefasciatus	Madera	50	CO2	9/6/2024	WNV
Madera	MADR 195	573	Cx tarsalis	Madera	50	CO2	9/6/2024	WNV
Madera	MADR 208	564	Cx tarsalis	Madera	50	CO2	9/6/2024	WNV
Madera	MADR 232	556	Cx tarsalis	Chowchilla	50	CO2	9/6/2024	WNV
Madera	MADR 3191	542	Cx tarsalis	Firebaugh	50	CO2	9/4/2024	WNV
Madera	MADR 358	543	Cx tarsalis	Firebaugh	50	CO2	9/4/2024	WNV
Madera	MADR 726	550	Cx tarsalis	Madera	50	CO2	9/4/2024	WNV
Madera	MADR 763	563	Cx tarsalis	Madera	50	CO2	9/6/2024	WNV
Madera	MADR 775	557	Cx tarsalis	Madera	32	CO2	9/6/2024	WNV
Merced	MERC 1103	525	Cx pipiens	Winton	50	CO2	9/6/2024	WNV
Merced	MERC 1103	527	Cx tarsalis	Winton	50	CO2	9/6/2024	WNV
Merced	MERC 163845	536	Cx pipiens	Livingston	19	BGSENT	9/10/2024	WNV
Merced	MERC 201720	477	Cx pipiens	Hilmar	50	BGSENT	9/5/2024	WNV
Merced	MERC 403	507	Cx pipiens	Hilmar	50	CO2	9/5/2024	WNV
Merced	MERC 431913	550	Cx tarsalis	Le Grand	35	BGSENT	9/10/2024	WNV
Merced	MERC 492592	448	Cx pipiens	Delhi	50	BGSENT	9/5/2024	WNV
Orange	ORCO 1008	2546	Cx quinquefasciatus	Fullerton	34	GRVD	9/12/2024	WNV
Orange	ORCO 1008	2553	Cx quinquefasciatus	Fullerton	34	GRVD	9/12/2024	WNV
Orange	ORCO 29	2520	Cx quinquefasciatus	Santa Ana	30	GRVD	9/11/2024	WNV
Orange	ORCO 367	2455	Cx tarsalis	Orange	9	CO2	9/10/2024	WNV
Placer	PLCR 1023	1353	Cx stigmatosoma	Roseville	36	CO2	9/10/2024	WNV
Placer	PLCR 139	1375	Cx stigmatosoma	Roseville	30	CO2	9/10/2024	WNV
Placer	PLCR 191232	1465	Cx stigmatosoma	Unknown	3	CO2	9/12/2024	WNV
Placer	PLCR 466642	1356	Cx tarsalis	Roseville	33	CO2	9/10/2024	WNV
Placer	PLCR 95	1383	Cx tarsalis	Lincoln	50	CO2	9/10/2024	WNV
Riverside	NWST 350	276	Cx quinquefasciatus	Riverside	50	GRVD	9/5/2024	WNV
Sacramento	SAYO 201006	4479	Cx tarsalis	Sacramento	27	CO2	9/10/2024	WNV
Sacramento	SAYO 203032	4495	Cx tarsalis	Sacramento	2	GRVD	9/10/2024	WNV
Sacramento	SAYO 222064	4436	Cx tarsalis	Sacramento	8	CO2	9/10/2024	WNV
San Joaquin	SJCM 8143	1572	Cx tarsalis	Stockton	14	CO2	9/10/2024	WNV
San Joaquin	SJCM 8161	1564	Cx pipiens	Ripon	5	CO2	9/10/2024	WNV
San Joaquin	SJCM 8209	1555	Cx tarsalis	Lodi	36	CO2	9/10/2024	WNV
San Joaquin	SJCM 8218	1594	Cx pipiens	Escalon	7	CO2	9/10/2024	WNV
Santa Clara	STCL 2627	2680	Cx tarsalis	Milpitas	2	GRVD	9/5/2024	WNV
Santa Clara	STCL 637799	2770	Cx pipiens	San Jose	18	BGSENT	9/10/2024	WNV
Santa Clara	STCL 681000	2769	Cx tarsalis	San Jose	6	BGSENT	9/10/2024	WNV
Shasta	SHAS 20040	696	Cx tarsalis	Redding	32	CO2	9/5/2024	WNV
Shasta	SHAS 20040	730	Cx tarsalis	Redding	30	CO2	9/11/2024	WNV
Shasta	SHAS 618	722	Cx tarsalis	Anderson	44	CO2	9/10/2024	WNV
Shasta	SHAS 93	725	Cx tarsalis	Anderson	36	CO2	9/10/2024	WNV
Solano	SOLA 42	382	Cx tarsalis	Benicia	50	CO2	9/12/2024	WNV
Stanislaus	TRLK 1309	636	Cx pipiens	Hughson	28	CO2	9/10/2024	WNV
Stanislaus	TRLK 432	624	Cx tarsalis	Turlock	28	CO2	9/10/2024	WNV
Sutter	SUYA 15	449	Cx tarsalis	Robbins	34	CO2	9/10/2024	WNV
Sutter	SUYA 24	458	Cx tarsalis	Yuba City	12	REST	9/11/2024	WNV
Tulare	DLTA 162326	2945	Cx quinquefasciatus	Dinuba	16	GRVD	9/6/2024	WNV
Tulare	DLTA 300011	2894	Cx quinquefasciatus	Visalia	16	BGSENT	9/4/2024	WNV
Tulare	DLTA 64064	2982	Cx quinquefasciatus	Dinuba	17	GRVD	9/6/2024	WNV
Tulare	DLTA 6407	2888	Cx quinquefasciatus	Dinuba	39	BGSENT	9/4/2024	WNV
Tulare	DLTA 64073	2941	Cx quinquefasciatus	Dinuba	14	BGSENT	9/5/2024	WNV
Tulare	DLTA 64102	3032	Cx tarsalis	Dinuba	48	CO2	9/10/2024	WNV
Tulare	DLTA 64161	2860	Cx quinquefasciatus	Dinuba	28	GRVD	9/4/2024	WNV
Tulare	DLTA 64163	2953	Cx stigmatosoma	Dinuba	48	BGSENT	9/6/2024	WNV
Tulare	DLTA 6417	3014	Cx quinquefasciatus	Dinuba	50	GRVD	9/10/2024	WNV
Tulare	DLTA 6420	2938	Cx quinquefasciatus	Dinuba	43	BGSENT	9/5/2024	WNV



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Tulare	DLTA 73161	2990	Cx stigmatosoma	Traver	28	BGSENT	9/10/2024	WNV
Tulare	DLTA 83231	2904	Cx quinquefasciatus	Goshen	44	CO2	9/4/2024	WNV
Tulare	DLTA 83231	2905	Cx stigmatosoma	Goshen	45	CO2	9/4/2024	WNV
Tulare	DLTA 8413	3001	Cx quinquefasciatus	Visalia	37	GRVD	9/10/2024	WNV
Tulare	DLTA 8413	3020	Cx quinquefasciatus	Visalia	50	BGSENT	9/10/2024	WNV
Tulare	DLTA 8414	2885	Cx quinquefasciatus	Visalia	32	BGSENT	9/4/2024	WNV
Tulare	DLTA 841631	2917	Cx tarsalis	Visalia	50	CO2	9/4/2024	WNV
Tulare	DLTA 841631	2919	Cx quinquefasciatus	Visalia	50	CO2	9/4/2024	WNV
Tulare	DLTA 841631	2921	Cx quinquefasciatus	Visalia	50	CO2	9/4/2024	WNV
Tulare	DLTA 84231	3018	Cx quinquefasciatus	Visalia	29	BGSENT	9/10/2024	WNV
Tulare	DLTA 843232	2896	Cx quinquefasciatus	Visalia	34	CO2	9/4/2024	WNV
Tulare	DLTA 9411	2884	Cx quinquefasciatus	Visalia	10	BGSENT	9/4/2024	WNV
Tulare	DLTA 9506	3019	Cx quinquefasciatus	Visalia	17	BGSENT	9/10/2024	WNV
Yolo	SAYO 135013	4386	Cx pipiens	Woodland	2	CO2	9/6/2024	WNV
Yolo	SAYO 135016	4409	Cx tarsalis	Woodland	50	CO2	9/6/2024	WNV
Yolo	SAYO 135016	4410	Cx tarsalis	Woodland	50	CO2	9/6/2024	WNV
Yolo	SAYO 145005	4524	Cx tarsalis	Davis	50	CO2	9/10/2024	WNV
Yolo	SAYO 145005	4525	Cx tarsalis	Davis	50	CO2	9/10/2024	WNV
Yolo	SAYO 145005	4526	Cx tarsalis	Davis	50	CO2	9/10/2024	WNV
Yolo	SAYO 145016	4520	Cx tarsalis	Davis	16	CO2	9/10/2024	WNV
Yolo	SAYO 146003	4514	Cx pipiens	Davis	1	GRVD	9/10/2024	WNV
Yolo	SAYO 147013	4507	Cx pipiens	West Sacramento	3	GRVD	9/10/2024	WNV

### Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Los Angeles	LACW 1003	Redondo Beach	8/20/2024	WNV	3011	3013	3014	3015
Los Angeles	LACW 1009	Los Angeles	8/27/2024	WNV	3037	3038	3039	3040
Los Angeles	LACW 1049	Inglewood	8/28/2024	WNV	3066	3067	3068	3069
Los Angeles	LACW 1010	Los Angeles	8/22/2024	WNV	3041	3042	3044	
Los Angeles	LACW 1006	Playa Del Rey	8/28/2024	WNV	3026			

## California Arbovirus Surveillance Bulletin #23

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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>*

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