

## California Arbovirus Surveillance Bulletin #17

Week 30 Friday, July 29, 2022



### WEEKLY UPDATE

#### Humans

##### West Nile virus

A total of 2 human cases of West Nile virus (WNV) illness were reported this week from Stanislaus County. In 2022, a total of 7 WNV human cases have been reported from 4 counties. Of the 7 cases, 5 (71%) had neuroinvasive illness. The median age of case patients was 56 years and 4 (57%) of the case patients were male. The dates of symptom onset ranged from May 8 to June 29. In addition to the 7 WNV cases, 2 asymptomatic WNV-positive blood donors have been reported from 2 counties: Fresno (1), and Kern (1). At this time last year, 4 WNV cases had been reported from 4 counties.

##### St. Louis encephalitis virus

A new human case (1) of St. Louis encephalitis virus (SLEV) was reported this week from Tulare County. **This is the first SLEV human case from Tulare County this year.** In 2022, 2 SLEV human cases have been reported from 2 counties: Stanislaus (1), and Tulare (1). At this time last year, 0 SLEV cases had been reported.

#### Dead Birds

A total of 13 WNV positive dead birds were reported this week from 7 counties: Butte (1), Los Angeles (3), Sacramento (4), Santa Clara (2), Solano (1), Sutter (1), and Tulare (1). **These are the first positive dead birds from Butte and Tulare counties this year.** In 2022, 49 WNV positive dead birds have been reported from 12 counties. At this time last year, 94 WNV positive dead birds had been reported from 9 counties.

#### Mosquito Pools

##### West Nile virus

A total of 222 WNV positive mosquito pools were reported this week from 19 counties: Butte (4), Contra Costa (1), Fresno (27), Kern (6), Los Angeles (14), Madera (3), Orange (3), Placer (5), Riverside (5), Sacramento (2), San Bernardino (4), San Joaquin (8), Santa Clara (1), Shasta (3), Stanislaus (1), Sutter (5), Tulare (123), Yolo (4), and Yuba (3) counties. **This is the first detection of a WNV positive mosquito pool from Contra Costa County this year.** In 2022, 702 WNV positive mosquito pools have been reported from 22 counties. At this time last year, 563 WNV positive mosquito pools had been reported from 20 counties.

##### St. Louis encephalitis virus

A total of 2 SLEV positive mosquito pools were reported this week from Riverside County. In 2022, 9 positive mosquito pools from Imperial (2), Kings (2), Riverside (4), and Tulare (1) counties have been reported. At this time last year, 3 SLEV positive mosquito pools had been reported from 1 county.

#### Sentinel Chickens

No new positives were reported this week. In 2022, 2 WNV positive chickens have been reported from 2 counties. At this time last year, 10 WNV positive chickens had been reported from 3 counties.

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<b>2021 &amp; 2022 YTD West Nile Virus Comparisons</b>		
	<b>2021</b>	<b>2022</b>
Total No. Dead Bird Reports	3,414	2,906
No. Positive Counties	22	23
No. Human Cases	4	7
No. Positive Dead Birds / No. Tested	94 / 1,032	49 / 745
No. Positive Mosquito Pools / No. Tested	563 / 18,071	702 / 17,315
No. Seroconversions / No. Tested	10 / 3,093	2 / 2,523

<b>YTD WNV Activity by Element and County, 2022</b>					
<b>County</b>	<b>Humans</b>	<b>Horses</b>	<b>Dead Birds</b>	<b>Mosquito Pools</b>	<b>Sentinel Chickens</b>
Butte			1	6	
Contra Costa			1	1	
Fresno			2	139	
Kern	2	2		40	
Kings	1			30	
Los Angeles			12	57	
Madera				6	
Merced			1	1	1
Nevada			1		
Orange				14	
Placer				20	
Riverside				42	
Sacramento			19	8	
San Bernardino				17	
San Joaquin				53	
Santa Clara			4	9	
Shasta				9	
Solano			3	6	
Stanislaus	3			2	
Sutter			2	16	
Tulare			1	214	
Yolo	1		2	8	
Yuba				4	1
<b>Totals</b>	<b>7</b>	<b>2</b>	<b>49</b>	<b>702</b>	<b>2</b>

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### TESTING SUMMARIES

		WNV	SLEV	WEEV
<b>Human Cases</b>	Week	2	1	0
	YTD	7	2	0

Positive / Total Tested					
WNV	SLEV	WEEV	CHIK	DENV	ZIKA

<b>Dead Birds</b>	Week	13 / 28
	YTD	49 / 745

<b>Chicken Sera</b>	Week	0 / 174	0 / 174	0 / 174
	YTD	2 / 2,523	0 / 2,523	0 / 2,523

<b>Mosquito Pools</b>	Week	222 / 1,700	2 / 1457	0 / 1455	0 / 0	0 / 0	0 / 0
	YTD	702 / 17,315	9 / 16,582	0 / 16,543	0 / 280	0 / 280	0 / 280

### POSITIVES

#### Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Butte	Butte Co MVCD	Palermo	95968	Sparrow	7/19/2022	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Los Angeles	91401	Cooper's Hawk	7/18/2022	WNV
Los Angeles	Greater Los Angeles Co VCD - Sylmar	Los Angeles	91423	Crow or Raven	7/18/2022	WNV
Los Angeles	San Gabriel Valley MVCD	South Pasadena	91030	American Crow	7/21/2022	WNV
Sacramento	Sacramento-Yolo MVCD	Carmichael	95608	Yellow-billed Magpie	7/26/2022	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95610	California Scrub-Jay	7/19/2022	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95821	White-breasted Nuthatch	7/25/2022	WNV
Sacramento	Sacramento-Yolo MVCD	Sacramento	95864	American Crow	7/21/2022	WNV
Santa Clara	Santa Clara Co VCD	Palo Alto	94303	American Goldfinch	7/20/2022	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94087	House Sparrow	7/20/2022	WNV
Solano	Solano Co MAD	Vacaville	95688	California Scrub-Jay	7/22/2022	WNV
Sutter	Sutter-Yuba MVCD	Pleasant Grove	95668	California Scrub-Jay	7/26/2022	WNV
Tulare	Delta MVCD	Visalia	93291	California Scrub-Jay	7/24/2022	WNV

#### Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO 12	239	Culex tarsalis	Gridley	50	CO2	7/19/2022	WNV
Butte	BUCO 124	240	Culex tarsalis	Chico	50	CO2	7/18/2022	WNV
Butte	BUCO 49	251	Culex tarsalis	Biggs	50	CO2	7/20/2022	WNV
Butte	BUCO 9	244	Culex tarsalis	Chico	50	CO2	7/18/2022	WNV
Contra Costa	CNTR 7402	596	Culex tarsalis	Oakley	10	CO2	7/26/2022	WNV
Fresno	CNSL 2003	79	Culex quinquefasciatus	Sanger	50	GRVD	7/21/2022	WNV
Fresno	CNSL 2297	571	Culex quinquefasciatus	Sanger	50	GRVD	7/19/2022	WNV

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Fresno	CNSL 2516	78	Culex quinquefasciatus	Sanger	34	GRVD	7/19/2022	WNV
Fresno	CNSL 3202	581	Culex quinquefasciatus	Reedley	50	GRVD	7/22/2022	WNV
Fresno	CNSL 3429	579	Culex quinquefasciatus	Parlier	26	GRVD	7/21/2022	WNV
Fresno	CNSL 4232	80	Culex quinquefasciatus	Selma	50	GRVD	7/21/2022	WNV
Fresno	CNSL 8032	578	Culex quinquefasciatus	Fresno	50	GRVD	7/21/2022	WNV
Fresno	CNSL 8042	560	Culex quinquefasciatus	Fresno	50	GRVD	7/19/2022	WNV
Fresno	CNSL 8050	81	Culex quinquefasciatus	Fresno	24	GRVD	7/22/2022	WNV
Fresno	CNSL 8178	82	Culex quinquefasciatus	Clovis	50	GRVD	7/22/2022	WNV
Fresno	FRNO 10	574	Culex quinquefasciatus	Fresno	26	GRVD	7/27/2022	WNV
Fresno	FRNO 10	585	Culex tarsalis	Fresno	50	CO2	7/27/2022	WNV
Fresno	FRNO 116	564	Culex quinquefasciatus	Fresno	45	GRVD	7/27/2022	WNV
Fresno	FRNO 122	553	Culex quinquefasciatus	Fresno	10	GRVD	7/21/2022	WNV
Fresno	FRNO 15	575	Culex quinquefasciatus	Fresno	8	GRVD	7/27/2022	WNV
Fresno	FRNO 178	561	Culex quinquefasciatus	Fresno	44	GRVD	7/21/2022	WNV
Fresno	FRNO 197	587	Culex tarsalis	Fresno	50	CO2	7/27/2022	WNV
Fresno	FRNO 219	576	Culex quinquefasciatus	Fresno	50	GRVD	7/27/2022	WNV
Fresno	FRNO 254	581	Culex quinquefasciatus	Fresno	35	GRVD	7/27/2022	WNV
Fresno	FRNO 259	554	Culex quinquefasciatus	Fresno	25	GRVD	7/21/2022	WNV
Fresno	FRNO 28	558	Culex quinquefasciatus	Fresno	9	GRVD	7/21/2022	WNV
Fresno	FRNO 35	560	Culex quinquefasciatus	Fresno	50	GRVD	7/21/2022	WNV
Fresno	FRNO 36	567	Culex quinquefasciatus	Fresno	50	GRVD	7/27/2022	WNV
Fresno	FRNO 64	555	Culex quinquefasciatus	Fresno	50	GRVD	7/21/2022	WNV
Fresno	FRNO 81	565	Culex quinquefasciatus	Fresno	50	GRVD	7/27/2022	WNV
Fresno	FRWS 4102	200	Culex tarsalis	Kerman	50	CO2	7/26/2022	WNV
Fresno	FRWS 4102	201	Culex tarsalis	Kerman	25	CO2	7/26/2022	WNV
Kern	DLNO 161	98	Culex quinquefasciatus	Delano	50	GRVD	7/22/2022	WNV
Kern	KERN 111	363	Culex tarsalis	Arvin	40	CO2	7/12/2022	WNV
Kern	KERN 1137	364	Culex quinquefasciatus	Bakersfield	30	CO2	7/13/2022	WNV
Kern	KERN 121	365	Culex quinquefasciatus	Bakersfield	26	GRVD	7/13/2022	WNV
Kern	KERN 2040	359	Culex quinquefasciatus	Arvin	46	GRVD	7/12/2022	WNV
Kern	KERN 52	369	Culex quinquefasciatus	Bakersfield	25	GRVD	7/15/2022	WNV
Los Angeles	GRLA 2521	5588	Culex quinquefasciatus	Los Feliz	23	GRVD	7/15/2022	WNV
Los Angeles	GRLA 2592	5593	Culex quinquefasciatus	San Marino	50	GRVD	7/20/2022	WNV
Los Angeles	GRLA 2669	5617	Culex quinquefasciatus	Granada Hills	40	GRVD	7/22/2022	WNV
Los Angeles	GRLA 3046	548	Culex quinquefasciatus	Bellflower	50	GRVD	7/22/2022	WNV
Los Angeles	GRLA 3089	5597	Culex quinquefasciatus	Glendale	50	GRVD	7/20/2022	WNV
Los Angeles	SGVA 1071	683	Culex quinquefasciatus	Monterey Park	50	GRVD	7/26/2022	WNV
Los Angeles	SGVA 1074	687	Culex quinquefasciatus	Temple City	50	GRVD	7/26/2022	WNV
Los Angeles	SGVA 297	684	Culex quinquefasciatus	Monterey Park	50	GRVD	7/26/2022	WNV
Los Angeles	SGVA 396	685	Culex quinquefasciatus	Pasadena	50	GRVD	7/26/2022	WNV
Los Angeles	SGVA 474	688	Culex quinquefasciatus	San Gabriel	50	GRVD	7/26/2022	WNV
Los Angeles	SGVA 688	681	Culex quinquefasciatus	Alhambra	50	GRVD	7/26/2022	WNV
Los Angeles	SGVA 704	680	Culex quinquefasciatus	Sierra Madre	18	GRVD	7/26/2022	WNV
Los Angeles	SGVA 898	679	Culex quinquefasciatus	San Gabriel	50	GRVD	7/26/2022	WNV
Los Angeles	SGVA 961	682	Culex quinquefasciatus	Alhambra	50	GRVD	7/26/2022	WNV
Madera	MADR 227	318	Culex tarsalis	Madera	50	CO2	7/20/2022	WNV
Madera	MADR 299	309	Culex quinquefasciatus	Chowchilla	50	CO2	7/19/2022	WNV
Madera	MADR 688	354	Culex tarsalis	Madera	50	CO2	7/22/2022	WNV
Orange	ORCO 1011	2263	Culex quinquefasciatus	La Habra	33	GRVD	7/21/2022	WNV
Orange	ORCO 1011	2361	Culex quinquefasciatus	La Habra	42	GRVD	7/27/2022	WNV
Orange	ORCO 227	2360	Culex quinquefasciatus	Brea	28	GRVD	7/27/2022	WNV
Placer	PLCR 1114	1019	Culex tarsalis	Lincoln	50	CO2	7/26/2022	WNV
Placer	PLCR 1114	1020	Culex tarsalis	Lincoln	23	CO2	7/26/2022	WNV
Placer	PLCR 139	1056	Culex tarsalis	Roseville	50	CO2	7/26/2022	WNV
Placer	PLCR 191218	1011	Culex tarsalis	Roseville	26	CO2	7/26/2022	WNV
Placer	PLCR 993822	1041	Culex tarsalis	Roseville	17	CO2	7/26/2022	WNV
Riverside	COAV 0	4030	Culex tarsalis	Indio	50	CO2	7/28/2022	WNV
Riverside	COAV 0	4111	Culex tarsalis	Indio	46	CO2	7/28/2022	WNV
Riverside	COAV 0	4127	Culex tarsalis	Indio	50	CO2	7/28/2022	WNV
Riverside	COAV 55	3955	Culex tarsalis	Mecca	50	CO2	7/26/2022	WNV
Riverside	COAV 55	3957	Culex tarsalis	Mecca	29	CO2	7/26/2022	WNV
Riverside	COAV 58	3765	Culex tarsalis	North Shore	50	CO2	7/26/2022	SLEV
Riverside	COAV 58	4106	Culex tarsalis	North Shore	50	CO2	7/28/2022	SLEV
Sacramento	SAYO 213055	2720	Culex tarsalis	Sacramento	5	CO2	7/22/2022	WNV
Sacramento	SAYO 214013	2704	Culex tarsalis	Carmichael	6	CO2	7/22/2022	WNV
San Bernardino	WVAL 4721	1053	Culex quinquefasciatus	Chino	24	BGSENT	7/28/2022	WNV
San Bernardino	WVAL 5005	1043	Culex quinquefasciatus	Rancho Cucamonga	20	GRVD	7/27/2022	WNV
San Bernardino	WVAL 6015	1022	Culex quinquefasciatus	Ontario	38	GRVD	7/26/2022	WNV
San Bernardino	WVAL 9007	1016	Culex quinquefasciatus	Upland	17	GRVD	7/26/2022	WNV

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San Joaquin	SJCM 8011	1191	Culex tarsalis	Ripon	10	CO2	7/26/2022	WNV
San Joaquin	SJCM 8011	1192	Culex pipiens	Ripon	36	CO2	7/26/2022	WNV
San Joaquin	SJCM 8018	1184	Culex tarsalis	Stockton	100	CO2	7/26/2022	WNV
San Joaquin	SJCM 8018	1186	Culex tarsalis	Stockton	100	CO2	7/26/2022	WNV
San Joaquin	SJCM 8018	1190	Culex pipiens	Stockton	16	CO2	7/26/2022	WNV
San Joaquin	SJCM 8111	1157	Culex tarsalis	Stockton	50	CO2	7/26/2022	WNV
San Joaquin	SJCM 8205	1222	Culex pipiens	Farmington	33	CO2	7/28/2022	WNV
San Joaquin	SJCM 8206	1144	Culex tarsalis	Lodi	43	CO2	7/26/2022	WNV
Santa Clara	STCL 31726	2136	Culex pipiens	Sunnyvale	1	CO2	7/21/2022	WNV
Shasta	SHAS 20040	254	Culex tarsalis	Redding	50	CO2	7/26/2022	WNV
Shasta	SHAS 20040	255	Culex tarsalis	Redding	37	CO2	7/26/2022	WNV
Shasta	SHAS 247	259	Culex tarsalis	Redding	16	CO2	7/26/2022	WNV
Stanislaus	TRLK 1107	349	Culex pipiens	Denair	31	CO2	7/26/2022	WNV
Sutter	SUYA 24	305	Culex tarsalis	Yuba City	39	REST	7/25/2022	WNV
Sutter	SUYA 31	308	Culex tarsalis	Rio Oso	50	REST	7/26/2022	WNV
Sutter	SUYA 44	296	Culex tarsalis	Pleasant Grove	40	CO2	7/27/2022	WNV
Sutter	SUYA 5	310	Culex tarsalis	Live Oak	23	CO2	7/27/2022	WNV
Sutter	SUYA 63	303	Culex tarsalis	Live Oak	40	REST	7/25/2022	WNV
Tulare	DLTA 162326	1665	Culex tarsalis	Dinuba	15	BGSENT	7/13/2022	WNV
Tulare	DLTA 162326	1667	Culex quinquefasciatus	Dinuba	50	BGSENT	7/13/2022	WNV
Tulare	DLTA 184191	1785	Culex quinquefasciatus	Visalia	17	BGSENT	7/19/2022	WNV
Tulare	DLTA 6407	1670	Culex quinquefasciatus	Dinuba	21	BGSENT	7/13/2022	WNV
Tulare	DLTA 6408	1658	Culex quinquefasciatus	Dinuba	30	BGSENT	7/13/2022	WNV
Tulare	DLTA 64163	1694	Culex quinquefasciatus	Dinuba	11	BGSENT	7/14/2022	WNV
Tulare	DLTA 64163	1929	Culex quinquefasciatus	Dinuba	10	GRVD	7/21/2022	WNV
Tulare	DLTA 6417	1642	Culex quinquefasciatus	Dinuba	11	GRVD	7/13/2022	WNV
Tulare	DLTA 6417	1784	Culex quinquefasciatus	Dinuba	38	GRVD	7/19/2022	WNV
Tulare	DLTA 6420	1738	Culex quinquefasciatus	Dinuba	45	BGSENT	7/15/2022	WNV
Tulare	DLTA 65312	1762	Culex quinquefasciatus	Cutler	50	CO2	7/19/2022	WNV
Tulare	DLTA 65323	1753	Culex stigmatosoma	Yetterm	26	CO2	7/19/2022	WNV
Tulare	DLTA 65323	1754	Culex quinquefasciatus	Yetterm	41	CO2	7/19/2022	WNV
Tulare	DLTA 653232	1765	Culex stigmatosoma	Yetterm	10	CO2	7/19/2022	WNV
Tulare	DLTA 7502	1569	Culex quinquefasciatus	Seville	14	BGSENT	7/13/2022	WNV
Tulare	DLTA 752842	1597	Culex quinquefasciatus	Ivanhoe	50	CO2	7/13/2022	WNV
Tulare	DLTA 752842	1598	Culex quinquefasciatus	Ivanhoe	50	CO2	7/13/2022	WNV
Tulare	DLTA 752842	1602	Culex quinquefasciatus	Ivanhoe	50	CO2	7/13/2022	WNV
Tulare	DLTA 752842	1607	Culex quinquefasciatus	Ivanhoe	50	CO2	7/13/2022	WNV
Tulare	DLTA 752842	1631	Culex quinquefasciatus	Ivanhoe	50	CO2	7/13/2022	WNV
Tulare	DLTA 752842	1639	Culex quinquefasciatus	Ivanhoe	50	CO2	7/13/2022	WNV
Tulare	DLTA 8413	1587	Culex quinquefasciatus	Visalia	50	BGSENT	7/13/2022	WNV
Tulare	DLTA 8413	1650	Culex quinquefasciatus	Visalia	50	BGSENT	7/13/2022	WNV
Tulare	DLTA 8413	1651	Culex quinquefasciatus	Visalia	50	BGSENT	7/13/2022	WNV
Tulare	DLTA 841324	1829	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841324	1830	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841324	1836	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 8414	1748	Culex quinquefasciatus	Visalia	47	BGSENT	7/15/2022	WNV
Tulare	DLTA 841423	1803	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841423	1804	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841423	1807	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1839	Culex tarsalis	Visalia	49	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1840	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1841	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1842	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1843	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1844	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1845	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1846	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1847	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1848	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1849	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1850	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1851	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1852	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1853	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1854	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1855	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1856	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1857	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1858	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV



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Tulare	DLTA 841431	1859	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1860	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1861	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1862	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1863	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1864	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1865	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1866	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1867	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1868	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1869	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1870	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1871	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1872	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1873	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1874	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1875	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1876	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1877	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1878	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1879	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1880	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1881	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1882	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1883	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1884	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1885	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1886	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1887	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1888	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1889	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1890	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1891	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1892	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1893	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1894	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1895	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1896	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1897	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1898	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1899	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1900	Culex quinquefasciatus	Visalia	50	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1901	Culex quinquefasciatus	Visalia	45	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1902	Culex tarsalis	Visalia	10	CO2	7/20/2022	WNV
Tulare	DLTA 841431	1903	Culex quinquefasciatus	Visalia	10	CO2	7/20/2022	WNV
Tulare	DLTA 84221	1773	Culex quinquefasciatus	Visalia	50	BGSENT	7/19/2022	WNV
Tulare	DLTA 84221	1774	Culex quinquefasciatus	Visalia	50	BGSENT	7/19/2022	WNV
Tulare	DLTA 84221	1775	Culex quinquefasciatus	Visalia	18	BGSENT	7/19/2022	WNV
Tulare	DLTA 8423	1661	Culex quinquefasciatus	Visalia	50	BGSENT	7/13/2022	WNV
Tulare	DLTA 8423	1663	Culex quinquefasciatus	Visalia	50	BGSENT	7/13/2022	WNV
Tulare	DLTA 8423	1704	Culex quinquefasciatus	Visalia	26	GRVD	7/14/2022	WNV
Tulare	DLTA 84242	1818	Culex quinquefasciatus	Visalia	20	BGSENT	7/20/2022	WNV
Tulare	DLTA 8425	1716	Culex quinquefasciatus	Visalia	25	BGSENT	7/14/2022	WNV
Tulare	DLTA 8508	1698	Culex quinquefasciatus	Visalia	50	BGSENT	7/14/2022	WNV
Tulare	DLTA 85192	1911	Culex quinquefasciatus	Visalia	11	GRVD	7/20/2022	WNV
Tulare	DLTA 8520	1733	Culex quinquefasciatus	Visalia	13	GRVD	7/15/2022	WNV
Tulare	DLTA 8521	1777	Culex quinquefasciatus	Visalia	27	BGSENT	7/19/2022	WNV
Tulare	DLTA 8527	1719	Culex quinquefasciatus	Visalia	10	BGSENT	7/14/2022	WNV
Tulare	DLTA 8527	1816	Culex quinquefasciatus	Visalia	21	GRVD	7/20/2022	WNV
Tulare	DLTA 85293	1727	Culex quinquefasciatus	Visalia	18	BGSENT	7/14/2022	WNV
Tulare	DLTA 8533	1910	Culex quinquefasciatus	Visalia	13	GRVD	7/20/2022	WNV
Tulare	DLTA 8631	1928	Culex quinquefasciatus	Farmersville	17	GRVD	7/21/2022	WNV
Tulare	DLTA 94122	1646	Culex quinquefasciatus	Visalia	18	GRVD	7/13/2022	WNV
Tulare	DLTA 9504	1655	Culex quinquefasciatus	Visalia	28	BGSENT	7/13/2022	WNV
Tulare	DLTA 9504	1781	Culex quinquefasciatus	Visalia	21	GRVD	7/19/2022	WNV
Tulare	DLTA 9505	1736	Culex quinquefasciatus	Visalia	12	BGSENT	7/15/2022	WNV
Tulare	DLTA 9604	1750	Culex quinquefasciatus	Exeter	10	BGSENT	7/15/2022	WNV
Tulare	DLTA 9607	1783	Culex quinquefasciatus	Farmersville	18	BGSENT	7/19/2022	WNV
Tulare	TLRE 192517	31	Culex quinquefasciatus	Trulare	42	GRVD	7/26/2022	WNV

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Tulare	TLRE 202412	28	Culex quinquefasciatus	Tulare	48	GRVD	7/15/2022	WNV
Tulare	TLRE 202413	27	Culex quinquefasciatus	Tulare	47	GRVD	7/15/2022	WNV
Tulare	TLRE 202518	26	Culex quinquefasciatus	Tulare	50	GRVD	7/13/2022	WNV
Yolo	SAYO 114001	2855	Culex tarsalis	Zamora	30	CO2	7/26/2022	WNV
Yolo	SAYO 115008	2845	Culex tarsalis	Woodland	50	CO2	7/26/2022	WNV
Yolo	SAYO 125004	2722	Culex tarsalis	Woodland	7	CO2	7/22/2022	WNV
Yolo	SAYO 125004	2723	Culex pipiens	Woodland	4	GRVD	7/22/2022	WNV
Yuba	SUYA 37	290	Culex tarsalis	Marysville	50	CO2	7/26/2022	WNV
Yuba	SUYA 37	292	Culex tarsalis	Marysville	50	CO2	7/26/2022	WNV
Yuba	SUYA 39	284	Culex tarsalis	Marysville	33	CO2	7/26/2022	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).

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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)*