

California Arbovirus Surveillance Bulletin #21

Week 34 Friday, August 26, 2022



WEEKLY UPDATE

Humans

West Nile virus

A total of 8 cases of West Nile virus (WNV) illness were reported this week from 5 counties: Butte (1), Fresno (2), Kern (2), Kings (2), and Tehama (1). **This is the first WNV case reported from Tehama County this year.** In 2022, a total of 26 cases have been reported from 11 counties. Of the 26 cases, 19 (73%) had neuroinvasive illness and 2 (7.7%) were fatal. The median age of the cases was 61 years and 17 (65%) were male. The dates of symptom onset ranged from May 8 to August 8. In addition to the 26 WNV cases, 5 asymptomatic WNV-positive blood donors have been reported from 3 counties: Fresno (3), Kern (1), and Los Angeles (1). At this time last year, 26 WNV cases had been reported from 12 counties.

St. Louis encephalitis virus

No human cases of St. Louis encephalitis virus (SLEV) were reported this week. In 2022, 3 SLEV human cases have been reported from 2 counties: Stanislaus (1), and Tulare (2). At this time last year, 0 SLEV cases had been reported.

Dead Birds

A total of 14 WNV positive dead birds were reported this week from 7 counties: Los Angeles (3), Placer (2), Riverside (1), Sacramento (2), San Bernardino (2), Santa Clara (2), and Yolo (2). **These are the first WNV positive dead birds from Placer and Riverside counties this year.** In 2022, 92 WNV positive dead birds have been reported from 17 counties. At this time last year, 155 WNV positive dead birds had been reported from 16 counties.

Mosquito Pools

West Nile virus

A total of 225 WNV positive mosquito pools were reported this week from 22 counties: Butte (4), Fresno (20), Kern (4), Kings (1), Lake (3), Los Angeles (42), Madera (23), Merced (5), Orange (4), Placer (21), Riverside (24), Sacramento (2), San Bernardino (10), San Joaquin (19), Santa Clara (2), Shasta (7), Solano (1), Stanislaus (4), Sutter (3), Tulare (19), Yolo (5), and Yuba (2). In 2022, 1,834 WNV positive mosquito pools have been reported from 24 counties. At this time last year, 1,482 WNV positive mosquito pools had been reported from 24 counties.

St. Louis encephalitis virus

A total of 26 SLEV positive mosquito pools were reported this week from 1 county: Riverside (26). In 2022, 46 SLEV positive mosquito pools from 4 counties have been reported: Imperial (3), Kings (5), Riverside (35), and Tulare (3). At this time last year, 19 SLEV positive mosquito pools had been reported from 3 counties.

Sentinel Chickens

A total of 12 positive chickens were reported this week from 5 counties: Colusa (1), Los Angeles (3), Sacramento (1), Tulare (4), and Yolo (3). **This is the first detection of WNV activity in Colusa County, and the first WNV positive chickens reported from Sacramento and Yolo counties this year.** In 2022, 52 WNV positive chickens have been reported from 10 counties. At this time last year, 43 WNV positive chickens had been reported from 9 counties.

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2021 & 2022 YTD West Nile Virus Comparisons		
	2021	2022
Total No. Dead Bird Reports	3,930	3,528
No. Positive Counties	29	27
No. Human Cases	26	26
No. Positive Dead Birds / No. Tested	155 / 1,229	92 / 949
No. Positive Mosquito Pools / No. Tested	1,482 / 24,658	1,834 / 26,356
No. Seroconversions / No. Tested	43 / 3,909	52 / 3,476

YTD WNV Activity by Element and County, 2022					
County	Humans	Horses	Dead Birds	Mosquito Pools	Sentinel Chickens
Butte	2		2	27	17
Colusa					1
Contra Costa			1	2	
Fresno	5		2	226	
Imperial				1	
Kern	5	2		69	
Kings	3			63	
Lake			1	6	
Los Angeles	1		22	236	4
Madera				69	
Merced			1	10	6
Nevada			1		
Orange	1		1	28	
Placer			2	66	
Riverside			1	81	
Sacramento		1	25	19	1
San Bernardino			5	54	
San Joaquin				137	
Santa Clara			10	14	
Shasta				30	
Solano	1		4	11	
Stanislaus	3			22	
Sutter			4	30	4
Tehama	1	1			1
Tulare	2		2	579	10
Yolo	2		8	42	3
Yuba				12	5
Totals	26	4	92	1,834	52

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TESTING SUMMARIES

		WNV	SLEV	WEEV
Human Cases	Week	8	0	0
	YTD	26	3	0

Positive / Total Tested							
		WNV	SLEV	WEEV	CHIK	DENV	ZIKA

Dead Birds	Week	13 / 38
	YTD	92 / 949

Chicken Sera	Week	12 / 230	0 / 230	0 / 230
	YTD	52 / 3,476	0 / 3,476	0 / 3,476

Mosquito Pools	Week	225 / 2,034	26 / 1,904	0 / 1,904	0 / 43	0 / 43	0 / 43
	YTD	1,834 / 26,356	46 / 23,177	0 / 23,133	0 / 323	0 / 323	0 / 323

POSITIVES

Dead Birds

County	Agency	City	Zip Code	Species	Date Reported	Virus
Los Angeles	Greater Los Angeles Co VCD - SFS	Cerritos	90703	American Crow	8/16/2022	WNV
Los Angeles	Greater Los Angeles Co VCD - SFS	Cerritos	90703	American Crow	8/21/2022	WNV
Los Angeles	San Gabriel Valley MVCD	Monrovia	91016	Unknown - Crow or Raven	8/17/2022	WNV
Placer	Placer MVCD	Granite Bay	95746	California Scrub-Jay	7/24/2022	WNV
Placer	Placer MVCD	Roseville	95747	House Finch	8/12/2022	WNV
Riverside	Northwest Mosquito VCD	Riverside	92506	American Crow	8/17/2022	WNV
Sacramento	Sacramento-Yolo MVCD	Citrus Heights	95621	Yellow-billed Magpie	8/22/2022	WNV
Sacramento	Sacramento-Yolo MVCD	Rio Linda	95673	Yellow-billed Magpie	8/18/2022	WNV
San Bernardino	West Valley MVCD	Ontario	91761	Hawk	8/24/2022	WNV
San Bernardino	West Valley MVCD	Rancho Cucamonga	91701	Unknown - Crow or Raven	8/18/2022	WNV
Santa Clara	Santa Clara Co VCD	San Jose	95120	Unknown - songbird	8/22/2022	WNV
Santa Clara	Santa Clara Co VCD	Sunnyvale	94086	American Crow	8/19/2022	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	American Crow	8/23/2022	WNV
Yolo	Sacramento-Yolo MVCD	Davis	95616	Unknown - Crow or Raven	8/22/2022	WNV

Mosquito Pools

County	Site Code	Pool #	Species	City	# in Pool	Trap Type	Collected	Virus
Butte	BUCO 11	343	Cx. tarsalis	Oroville	50	CO2	8/15/2022	WNV
Butte	BUCO 141	355	Cx. tarsalis	Oroville	50	CO2	8/17/2022	WNV
Butte	BUCO 29	348	Cx. tarsalis	Dayton	50	CO2	8/15/2022	WNV
Butte	BUCO 29	349	Cx. tarsalis	Dayton	50	CO2	8/15/2022	WNV
Fresno	CNSL 3381	603	Cx. quinquefasciatus	Reedley	26	GRVD	8/18/2022	WNV
Fresno	CNSL 5027	599	Cx. quinquefasciatus	Kingsburg	50	GRVD	8/16/2022	WNV
Fresno	CNSL 8168	598	Cx. quinquefasciatus	Fresno	43	GRVD	8/16/2022	WNV

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Fresno	FRNO 10	738	Cx. quinquefasciatus	Fresno	43	GRVD	8/23/2022	WNV
Fresno	FRNO 10	745	Cx. tarsalis	Fresno	50	CO2	8/23/2022	WNV
Fresno	FRNO 10	747	Cx. tarsalis	Fresno	22	CO2	8/23/2022	WNV
Fresno	FRNO 10	748	Cx. quinquefasciatus	Fresno	34	CO2	8/23/2022	WNV
Fresno	FRNO 194	736	Cx. quinquefasciatus	Fresno	50	GRVD	8/23/2022	WNV
Fresno	FRNO 195	730	Cx. quinquefasciatus	Fresno	34	GRVD	8/23/2022	WNV
Fresno	FRNO 219	732	Cx. quinquefasciatus	Fresno	42	GRVD	8/23/2022	WNV
Fresno	FRNO 221	733	Cx. quinquefasciatus	Fresno	49	GRVD	8/23/2022	WNV
Fresno	FRNO 254	741	Cx. quinquefasciatus	Fresno	26	GRVD	8/23/2022	WNV
Fresno	FRNO 259	721	Cx. quinquefasciatus	Fresno	10	GRVD	8/18/2022	WNV
Fresno	FRNO 273	727	Cx. quinquefasciatus	Fresno	19	GRVD	8/23/2022	WNV
Fresno	FRNO 35	718	Cx. quinquefasciatus	Fresno	50	GRVD	8/18/2022	WNV
Fresno	FRWS 300003	267	Cx. tarsalis	Firebaugh	21	BGSENT	8/19/2022	WNV
Fresno	FRWS 30043	265	Cx. tarsalis	Firebaugh	50	BGSENT	8/19/2022	WNV
Fresno	FRWS 4102	284	Cx. tarsalis	Kerman	50	CO2	8/23/2022	WNV
Fresno	FRWS 4102	285	Cx. tarsalis	Kerman	50	CO2	8/23/2022	WNV
Fresno	FRWS 4110	282	Cx. tarsalis	Mendota	50	CO2	8/23/2022	WNV
Kern	KERN 115	412	Cx. tarsalis	Bakersfield	50	CO2	8/18/2022	WNV
Kern	KERN 27	411	Cx. tarsalis	Wasco	40	CO2	8/16/2022	WNV
Kern	KERN 3023	409	Cx. tarsalis	Wasco	50	CO2	8/16/2022	WNV
Kern	KERN 3030	410	Cx. tarsalis	Shafter	49	CO2	8/16/2022	WNV
Kings	KNGS 3028	160	Cx. tarsalis	Hanford	50	CO2	8/4/2022	WNV
Lake	LAKE 233	308	Cx. tarsalis	Clearlake Oaks	50	CO2	8/23/2022	WNV
Lake	LAKE 302	313	Cx. tarsalis	Clearlake Oaks	11	CO2	8/23/2022	WNV
Lake	LAKE 94	309	Cx. tarsalis	Upper Lake	14	CO2	8/23/2022	WNV
Los Angeles	GRLA 2021	5734	Cx. quinquefasciatus	Reseda	45	GRVD	8/15/2022	WNV
Los Angeles	GRLA 2023	5736	Cx. quinquefasciatus	Reseda	21	GRVD	8/15/2022	WNV
Los Angeles	GRLA 2031	5739	Cx. quinquefasciatus	Northridge	26	GRVD	8/15/2022	WNV
Los Angeles	GRLA 2032	5737	Cx. quinquefasciatus	Northridge	31	GRVD	8/15/2022	WNV
Los Angeles	GRLA 2034	5733	Cx. quinquefasciatus	Tarzana	20	GRVD	8/15/2022	WNV
Los Angeles	GRLA 2323	691	Cx. quinquefasciatus	Los Angeles	50	GRVD	8/19/2022	WNV
Los Angeles	GRLA 2539	5738	Cx. quinquefasciatus	Chatsworth	13	GRVD	8/15/2022	WNV
Los Angeles	GRLA 2540	5740	Cx. quinquefasciatus	Porter Ranch	19	GRVD	8/15/2022	WNV
Los Angeles	GRLA 2548	5764	Cx. quinquefasciatus	Sylmar	43	GRVD	8/19/2022	WNV
Los Angeles	GRLA 2555	5732	Cx. quinquefasciatus	Encino	34	GRVD	8/15/2022	WNV
Los Angeles	GRLA 2592	5751	Cx. quinquefasciatus	San Marino	50	GRVD	8/18/2022	WNV
Los Angeles	GRLA 2593	5752	Cx. quinquefasciatus	San Marino	26	GRVD	8/18/2022	WNV
Los Angeles	GRLA 2604	5754	Cx. quinquefasciatus	Eagle Rock	44	GRVD	8/18/2022	WNV
Los Angeles	GRLA 2635	5731	Cx. quinquefasciatus	Lake Balboa	50	GRVD	8/15/2022	WNV
Los Angeles	GRLA 2636	5730	Cx. quinquefasciatus	Lake Balboa	12	GRVD	8/15/2022	WNV
Los Angeles	GRLA 2937	5749	Cx. quinquefasciatus	Burbank	46	GRVD	8/15/2022	WNV
Los Angeles	GRLA 3046	672	Cx. quinquefasciatus	Bellflower	49	GRVD	8/17/2022	WNV
Los Angeles	GRLA 3047	671	Cx. quinquefasciatus	Downey	50	GRVD	8/17/2022	WNV
Los Angeles	GRLA 3049	682	Cx. quinquefasciatus	Downey	50	GRVD	8/17/2022	WNV
Los Angeles	GRLA 3054	681	Cx. quinquefasciatus	Bell Gardens	50	GRVD	8/17/2022	WNV
Los Angeles	GRLA 3055	680	Cx. quinquefasciatus	Maywood	50	GRVD	8/17/2022	WNV
Los Angeles	GRLA 3073	696	Cx. quinquefasciatus	Lincoln Heights	50	GRVD	8/19/2022	WNV
Los Angeles	GRLA 3084	693	Cx. quinquefasciatus	Commerce	50	GRVD	8/19/2022	WNV
Los Angeles	GRLA 3086	5753	Cx. quinquefasciatus	Highland Park	50	GRVD	8/18/2022	WNV
Los Angeles	GRLA 3089	5755	Cx. quinquefasciatus	Glendale, CA	50	GRVD	8/18/2022	WNV
Los Angeles	SGVA 1010	865	Cx. quinquefasciatus	Monrovia	20	GRVD	8/23/2022	WNV
Los Angeles	SGVA 1074	852	Cx. quinquefasciatus	Temple City	27	GRVD	8/23/2022	WNV
Los Angeles	SGVA 1266	885	Cx. quinquefasciatus	Redding	50	GRVD	8/25/2022	WNV
Los Angeles	SGVA 286	846	Cx. quinquefasciatus	Baldwin Park	29	GRVD	8/23/2022	WNV
Los Angeles	SGVA 29	856	Cx. quinquefasciatus	Pomona	50	GRVD	8/23/2022	WNV
Los Angeles	SGVA 291	867	Cx. quinquefasciatus	El Monte	44	GRVD	8/23/2022	WNV
Los Angeles	SGVA 313	870	Cx. quinquefasciatus	Pasadena	36	GRVD	8/23/2022	WNV
Los Angeles	SGVA 445	868	Cx. quinquefasciatus	Rosemead	15	GRVD	8/23/2022	WNV
Los Angeles	SGVA 450	855	Cx. quinquefasciatus	La Puente	50	GRVD	8/23/2022	WNV
Los Angeles	SGVA 482	861	Cx. quinquefasciatus	Duarte	50	GRVD	8/23/2022	WNV
Los Angeles	SGVA 597	863	Cx. quinquefasciatus	Bradbury	27	GRVD	8/23/2022	WNV
Los Angeles	SGVA 683	864	Cx. quinquefasciatus	Sierra Madre	19	GRVD	8/23/2022	WNV
Los Angeles	SGVA 688	853	Cx. quinquefasciatus	Alhambra	23	GRVD	8/23/2022	WNV
Los Angeles	SGVA 7	844	Cx. quinquefasciatus	Claremont	50	GRVD	8/23/2022	WNV
Los Angeles	SGVA 875	848	Cx. quinquefasciatus	Walnut	31	GRVD	8/23/2022	WNV
Los Angeles	SGVA 898	862	Cx. quinquefasciatus	San Gabriel	33	GRVD	8/23/2022	WNV
Los Angeles	SGVA 996	866	Cx. quinquefasciatus	South Pasadena	28	GRVD	8/23/2022	WNV
Madera	MADR 208	517	Cx. quinquefasciatus	MADERA	50	CO2	8/18/2022	WNV
Madera	MADR 208	518	Cx. tarsalis	MADERA	50	CO2	8/18/2022	WNV

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Madera	MADR 208	519	Cx. tarsalis	MADERA	50	CO2	8/18/2022	WNV
Madera	MADR 227	531	Cx. quinquefasciatus	Madera	22	CO2	8/19/2022	WNV
Madera	MADR 227	532	Cx. tarsalis	Madera	50	CO2	8/19/2022	WNV
Madera	MADR 259	536	Cx. quinquefasciatus	Madera	31	CO2	8/19/2022	WNV
Madera	MADR 259	537	Cx. tarsalis	Madera	50	CO2	8/19/2022	WNV
Madera	MADR 298	526	Cx. quinquefasciatus	Chowchilla	50	CO2	8/18/2022	WNV
Madera	MADR 298	527	Cx. tarsalis	Chowchilla	33	CO2	8/18/2022	WNV
Madera	MADR 299	523	Cx. tarsalis	Chowchilla	50	CO2	8/18/2022	WNV
Madera	MADR 300	525	Cx. quinquefasciatus	Chowchilla	50	CO2	8/18/2022	WNV
Madera	MADR 311	504	Cx. tarsalis	Madera	13	CO2	8/17/2022	WNV
Madera	MADR 3334	533	Cx. tarsalis	Madera	50	CO2	8/19/2022	WNV
Madera	MADR 581	503	Cx. tarsalis	Madera	39	CO2	8/17/2022	WNV
Madera	MADR 688	506	Cx. tarsalis	Madera	50	CO2	8/17/2022	WNV
Madera	MADR 688	507	Cx. quinquefasciatus	Madera	25	CO2	8/17/2022	WNV
Madera	MADR 688	508	Cx. tarsalis	Madera	50	CO2	8/17/2022	WNV
Madera	MADR 704	515	Cx. tarsalis	MADERA	50	CO2	8/18/2022	WNV
Madera	MADR 706	538	Cx. tarsalis	Madera	50	CO2	8/19/2022	WNV
Madera	MADR 706	539	Cx. tarsalis	Madera	50	CO2	8/19/2022	WNV
Madera	MADR 896	541	Cx. tarsalis	Mendota	50	CO2	8/16/2022	WNV
Madera	MADR 896	542	Cx. tarsalis	Mendota	50	CO2	8/16/2022	WNV
Madera	MADR 896	543	Cx. tarsalis	Mendota	50	CO2	8/16/2022	WNV
Merced	MADR 707	497	Cx. tarsalis	Merced	28	CO2	8/12/2022	WNV
Merced	MADR 707	498	Cx. quinquefasciatus	Merced	50	CO2	8/12/2022	WNV
Merced	MERC 201722	215	Cx. pipiens	Winton	50	CO2	8/18/2022	WNV
Merced	MERC 201723	225	Cx. pipiens	Winton	50	CO2	8/18/2022	WNV
Merced	MERC 353548	222	Cx. pipiens	Winton	5	BGSENT	8/18/2022	WNV
Orange	ORCO 1011	3038	Cx. quinquefasciatus	La Habra	35	GRVD	8/23/2022	WNV
Orange	ORCO 1011	3039	Cx. quinquefasciatus	La Habra	30	GRVD	8/23/2022	WNV
Orange	ORCO 326	3023	Cx. quinquefasciatus	La Habra	28	GRVD	8/23/2022	WNV
Orange	ORCO 338	3031	Cx. quinquefasciatus	Anaheim	45	GRVD	8/23/2022	WNV
Placer	PLCR 1113	1366	Cx. tarsalis	Pleasant Grove	50	CO2	8/23/2022	WNV
Placer	PLCR 17	1059	Cx. tarsalis	Lincoln	50	CO2	7/27/2022	WNV
Placer	PLCR 17	1099	Cx. tarsalis	Lincoln	28	CO2	8/2/2022	WNV
Placer	PLCR 191218	1100	Cx. tarsalis	Lincoln	48	CO2	8/2/2022	WNV
Placer	PLCR 191373	1111	Cx. tarsalis	Lincoln	50	CO2	8/2/2022	WNV
Placer	PLCR 191373	1112	Cx. tarsalis	Lincoln	50	CO2	8/2/2022	WNV
Placer	PLCR 191373	1113	Cx. tarsalis	Lincoln	50	CO2	8/2/2022	WNV
Placer	PLCR 191373	1382	Cx. tarsalis	Lincoln	50	CO2	8/23/2022	WNV
Placer	PLCR 191373	1383	Cx. tarsalis	Lincoln	50	CO2	8/23/2022	WNV
Placer	PLCR 191373	1384	Cx. tarsalis	Lincoln	50	CO2	8/23/2022	WNV
Placer	PLCR 191998	1340	Cx. tarsalis	Lincoln	50	CO2	8/23/2022	WNV
Placer	PLCR 191998	1341	Cx. tarsalis	Lincoln	50	CO2	8/23/2022	WNV
Placer	PLCR 194232	1064	Cx. tarsalis	Lincoln	41	CO2	7/27/2022	WNV
Placer	PLCR 197802	1138	Cx. tarsalis	Lincoln	50	CO2	8/2/2022	WNV
Placer	PLCR 197802	1139	Cx. tarsalis	Lincoln	50	CO2	8/2/2022	WNV
Placer	PLCR 197802	1141	Cx. tarsalis	Lincoln	50	CO2	8/2/2022	WNV
Placer	PLCR 197802	1143	Cx. pipiens	Lincoln	16	CO2	8/2/2022	WNV
Placer	PLCR 197802	1380	Cx. tarsalis	Elverta	50	CO2	8/23/2022	WNV
Placer	PLCR 25	1105	Cx. tarsalis	Lincoln	50	CO2	8/2/2022	WNV
Placer	PLCR 678519	1389	Cx. tarsalis	Elverta	13	CO2	8/23/2022	WNV
Placer	PLCR 95	1093	Cx. tarsalis	Lincoln	22	CO2	8/2/2022	WNV
Riverside	COAV 0	4634	Cx. tarsalis	Oasis	50	CO2	8/25/2022	SLEV
Riverside	COAV 0	4638	Cx. tarsalis	Indio	50	CO2	8/25/2022	WNV
Riverside	COAV 0	4645	Cx. tarsalis	Indio	38	CO2	8/25/2022	WNV
Riverside	COAV 0	4647	Cx. tarsalis	Indio	29	CO2	8/25/2022	WNV
Riverside	COAV 0	4652	Cx. tarsalis	Mecca	50	CO2	8/25/2022	SLEV
Riverside	COAV 0	4676	Cx. tarsalis	Indio	50	CO2	8/25/2022	WNV
Riverside	COAV 0	4678	Cx. tarsalis	Mecca	50	CO2	8/25/2022	SLEV
Riverside	COAV 0	4679	Cx. tarsalis	Mecca	50	CO2	8/25/2022	SLEV
Riverside	COAV 0	4680	Cx. tarsalis	Indio	50	CO2	8/25/2022	WNV
Riverside	COAV 0	4682	Cx. tarsalis	Indio	50	CO2	8/25/2022	WNV
Riverside	COAV 121	4588	Cx. tarsalis	Mecca	50	CO2	8/23/2022	WNV
Riverside	COAV 121	4588	Cx. tarsalis	Mecca	50	CO2	8/23/2022	SLEV
Riverside	COAV 121	4590	Cx. tarsalis	Mecca	50	CO2	8/23/2022	WNV
Riverside	COAV 121	4590	Cx. tarsalis	Mecca	50	CO2	8/23/2022	SLEV
Riverside	COAV 121	4661	Cx. tarsalis	Mecca	50	CO2	8/25/2022	WNV
Riverside	COAV 121	4661	Cx. tarsalis	Mecca	50	CO2	8/25/2022	SLEV
Riverside	COAV 121	4663	Cx. tarsalis	Mecca	50	CO2	8/25/2022	WNV
Riverside	COAV 122	4597	Cx. tarsalis	Mecca	50	CO2	8/23/2022	SLEV

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Riverside	COAV 122	4598	Cx. tarsalis	Mecca	50	CO2	8/23/2022	SLEV
Riverside	COAV 122	4599	Cx. tarsalis	Mecca	50	CO2	8/23/2022	SLEV
Riverside	COAV 123	4563	Cx. tarsalis	Mecca	50	CO2	8/23/2022	SLEV
Riverside	COAV 123	4564	Cx. tarsalis	Mecca	50	CO2	8/23/2022	SLEV
Riverside	COAV 123	4565	Cx. tarsalis	Mecca	50	CO2	8/23/2022	WNV
Riverside	COAV 43	4541	Cx. tarsalis	Mecca	49	CO2	8/23/2022	WNV
Riverside	COAV 43	4633	Cx. tarsalis	Mecca	50	CO2	8/25/2022	WNV
Riverside	COAV 45	4600	Cx. tarsalis	Mecca	50	CO2	8/23/2022	WNV
Riverside	COAV 45	4601	Cx. tarsalis	Mecca	50	CO2	8/23/2022	SLEV
Riverside	COAV 45	4602	Cx. tarsalis	Mecca	50	CO2	8/23/2022	WNV
Riverside	COAV 45	4603	Cx. tarsalis	Mecca	50	CO2	8/23/2022	WNV
Riverside	COAV 45	4604	Cx. tarsalis	Mecca	45	CO2	8/23/2022	WNV
Riverside	COAV 45	4604	Cx. tarsalis	Mecca	45	CO2	8/23/2022	SLEV
Riverside	COAV 45	4670	Cx. tarsalis	Mecca	50	CO2	8/25/2022	WNV
Riverside	COAV 45	4670	Cx. tarsalis	Mecca	50	CO2	8/25/2022	SLEV
Riverside	COAV 45	4671	Cx. tarsalis	Mecca	50	CO2	8/25/2022	WNV
Riverside	COAV 45	4672	Cx. tarsalis	Mecca	50	CO2	8/25/2022	WNV
Riverside	COAV 45	4673	Cx. tarsalis	Mecca	50	CO2	8/25/2022	WNV
Riverside	COAV 45	4674	Cx. tarsalis	Mecca	50	CO2	8/25/2022	WNV
Riverside	COAV 45	4674	Cx. tarsalis	Mecca	50	CO2	8/25/2022	SLEV
Riverside	COAV 48	4547	Cx. tarsalis	Mecca	50	CO2	8/23/2022	SLEV
Riverside	COAV 48	4548	Cx. tarsalis	Mecca	50	CO2	8/23/2022	SLEV
Riverside	COAV 48	4549	Cx. tarsalis	Mecca	50	CO2	8/23/2022	SLEV
Riverside	COAV 48	4550	Cx. tarsalis	Mecca	50	CO2	8/23/2022	SLEV
Riverside	COAV 48	4665	Cx. tarsalis	Mecca	50	CO2	8/25/2022	SLEV
Riverside	COAV 536	4657	Cx. tarsalis	Thermal	30	CO2	8/25/2022	WNV
Riverside	COAV 57	4587	Cx. tarsalis	North Shore	37	CO2	8/23/2022	SLEV
Riverside	COAV 58	4318	Cx. tarsalis	North Shore	50	CO2	8/25/2022	SLEV
Riverside	COAV 58	4319	Cx. tarsalis	North Shore	50	CO2	8/25/2022	SLEV
Riverside	COAV 58	4606	Cx. tarsalis	North Shore	50	CO2	8/23/2022	WNV
Riverside	COAV 611	4580	Cx. tarsalis	Oasis	50	CO2	8/23/2022	SLEV
Riverside	COAV 611	4640	Cx. tarsalis	Oasis	50	CO2	8/25/2022	SLEV
Sacramento	SAYO 214020	3769	Cx. pipiens	Rancho Cordova	11	GRVD	8/19/2022	WNV
Sacramento	SAYO 243026	3738	Cx. tarsalis	Elk Grove	26	CO2	8/19/2022	WNV
San Bernardino	WVAL 127	1280	Cx. quinquefasciatus	Ontario	8	GRVD	8/24/2022	WNV
San Bernardino	WVAL 2018	1268	Cx. quinquefasciatus	Chino	5	GRVD	8/24/2022	WNV
San Bernardino	WVAL 318	1263	Cx. quinquefasciatus	Chino	52	BGSENT	8/24/2022	WNV
San Bernardino	WVAL 4568	1273	Cx. quinquefasciatus	Upland	29	GRVD	8/24/2022	WNV
San Bernardino	WVAL 4637	1259	Cx. quinquefasciatus	Rancho Cucamonga	23	GRVD	8/23/2022	WNV
San Bernardino	WVAL 4721	1265	Cx. quinquefasciatus	Chino	25	BGSENT	8/24/2022	WNV
San Bernardino	WVAL 5456	1264	Cx. quinquefasciatus	Chino	24	BGSENT	8/24/2022	WNV
San Bernardino	WVAL 6001	1258	Cx. quinquefasciatus	Ontario	20	GRVD	8/23/2022	WNV
San Bernardino	WVAL 7002	1279	Cx. quinquefasciatus	Montclair	12	GRVD	8/24/2022	WNV
San Bernardino	WVAL 9007	1281	Cx. quinquefasciatus	Upland	9	GRVD	8/24/2022	WNV
San Joaquin	SJCM 7021	1598	Cx. pipiens	Stockton	5	GRVD	8/23/2022	WNV
San Joaquin	SJCM 8076	1594	Cx. tarsalis	Stockton	10	CO2	8/23/2022	WNV
San Joaquin	SJCM 8079	1677	Cx. pipiens	Manteca	34	CO2	8/23/2022	WNV
San Joaquin	SJCM 8111	1623	Cx. pipiens	Stockton	50	CO2	8/23/2022	WNV
San Joaquin	SJCM 8160	1599	Cx. tarsalis	Lodi	43	CO2	8/23/2022	WNV
San Joaquin	SJCM 8206	1605	Cx. tarsalis	Lodi	50	CO2	8/23/2022	WNV
San Joaquin	SJCM 8206	1606	Cx. tarsalis	Lodi	50	CO2	8/23/2022	WNV
San Joaquin	SJCM 8206	1607	Cx. tarsalis	Lodi	50	CO2	8/23/2022	WNV
San Joaquin	SJCM 8206	1608	Cx. tarsalis	Lodi	50	CO2	8/23/2022	WNV
San Joaquin	SJCM 8206	1609	Cx. tarsalis	Lodi	50	CO2	8/23/2022	WNV
San Joaquin	SJCM 8206	1610	Cx. tarsalis	Lodi	50	CO2	8/23/2022	WNV
San Joaquin	SJCM 8206	1611	Cx. tarsalis	Lodi	50	CO2	8/23/2022	WNV
San Joaquin	SJCM 8206	1612	Cx. tarsalis	Lodi	50	CO2	8/23/2022	WNV
San Joaquin	SJCM 8206	1613	Cx. tarsalis	Lodi	50	CO2	8/23/2022	WNV
San Joaquin	SJCM 8206	1616	Cx. pipiens	Lodi	50	CO2	8/23/2022	WNV
San Joaquin	SJCM 8206	1617	Cx. pipiens	Lodi	50	CO2	8/23/2022	WNV
San Joaquin	SJCM 8206	1618	Cx. pipiens	Lodi	49	CO2	8/23/2022	WNV
San Joaquin	SJCM 8233	1638	Cx. tarsalis	stockton	50	CO2	8/23/2022	WNV
San Joaquin	SJCM 8253	1702	Cx. tarsalis	Linden	25	CO2	8/25/2022	WNV
Santa Clara	STCL 31725	2978	Cx. pipiens	Sunnyvale	13	GRVD	8/25/2022	WNV
Santa Clara	STCL 31766	2970	Cx. tarsalis	Sunnyvale	4	CO2-EVS	8/25/2022	WNV
Shasta	SHAS 10070	438	Cx. pipiens	Shasta Lake City	50	CO2	8/23/2022	WNV
Shasta	SHAS 110	446	Cx. pipiens	Redding	12	CO2	8/24/2022	WNV
Shasta	SHAS 2015	411	Cx. pipiens	Redding	50	BGCOUNTER	8/17/2022	WNV
Shasta	SHAS 2015	414	Cx. pipiens	Redding	40	BGCOUNTER	8/17/2022	WNV

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Shasta	SHAS 2015	415	Cx. pipiens	Redding	36	BGCOUNTER	8/17/2022	WNV
Shasta	SHAS 2015	416	Cx. tarsalis	Redding	30	BGCOUNTER	8/17/2022	WNV
Shasta	SHAS 2015	422	Cx. pipiens	Redding	50	BGCOUNTER	8/18/2022	WNV
Solano	SOLA 42	305	Cx. tarsalis	Benicia	50	CO2	8/25/2022	WNV
Stanislaus	EAST 1007	22141	Cx. tarsalis	Modesto	50	CO2	8/16/2022	WNV
Stanislaus	EAST 1077	22136	Cx. pipiens	Modesto	22	GRVD	8/9/2022	WNV
Stanislaus	TRLK 17131	555	Cx. tarsalis	Turlock	18	CO2	8/23/2022	WNV
Stanislaus	TRLK 526	552	Cx. tarsalis	Denair	50	CO2	8/23/2022	WNV
Sutter	SUYA 14	403	Cx. tarsalis	Sutter	37	REST	8/22/2022	WNV
Sutter	SUYA 31	406	Cx. tarsalis	Rio Oso	21	REST	8/23/2022	WNV
Sutter	SUYA 71	405	Cx. tarsalis	Meridian	40	REST	8/23/2022	WNV
Tulare	DLTA 60322	2682	Cx. quinquefasciatus	Exeter	50	CO2	8/19/2022	WNV
Tulare	DLTA 60322	2683	Cx. quinquefasciatus	Exeter	50	CO2	8/19/2022	WNV
Tulare	DLTA 60322	2684	Cx. quinquefasciatus	Exeter	50	CO2	8/19/2022	WNV
Tulare	DLTA 60322	2685	Cx. quinquefasciatus	Exeter	50	CO2	8/19/2022	WNV
Tulare	DLTA 60322	2686	Cx. quinquefasciatus	Exeter	50	CO2	8/19/2022	WNV
Tulare	DLTA 60322	2687	Cx. quinquefasciatus	Exeter	35	CO2	8/19/2022	WNV
Tulare	DLTA 6407	2637	Cx. quinquefasciatus	Dinuba	10	GRVD	8/17/2022	WNV
Tulare	DLTA 7502	2639	Cx. quinquefasciatus	Seville	34	BGSENT	8/17/2022	WNV
Tulare	DLTA 8413	2658	Cx. quinquefasciatus	Visalia	15	GRVD	8/17/2022	WNV
Tulare	DLTA 841431	2652	Cx. quinquefasciatus	Visalia	50	CO2	8/17/2022	WNV
Tulare	DLTA 84253	2674	Cx. quinquefasciatus	Visalia	15	BGSENT	8/18/2022	WNV
Tulare	DLTA 8434	2689	Cx. quinquefasciatus	Visalia	11	BGSENT	8/19/2022	WNV
Tulare	DLTA 8508	2667	Cx. quinquefasciatus	Visalia	50	BGSENT	8/18/2022	WNV
Tulare	DLTA 85193	2679	Cx. quinquefasciatus	Visalia	21	BGSENT	8/18/2022	WNV
Tulare	DLTA 8533	2665	Cx. quinquefasciatus	Visalia	17	GRVD	8/18/2022	WNV
Tulare	DLTA 94034	2693	Cx. quinquefasciatus	Visalia	35	BGSENT	8/19/2022	WNV
Tulare	DLTA 9411	2656	Cx. quinquefasciatus	Visalia	35	BGSENT	8/17/2022	WNV
Tulare	DLTA 9411	2668	Cx. quinquefasciatus	Visalia	22	BGSENT	8/18/2022	WNV
Tulare	DLTA 961643	2681	Cx. quinquefasciatus	Exeter	16	CO2	8/19/2022	WNV
Yolo	SAYO 114001	3937	Cx. tarsalis	Zamora	31	CO2	8/23/2022	WNV
Yolo	SAYO 115008	3954	Cx. tarsalis	Woodland	50	CO2	8/23/2022	WNV
Yolo	SAYO 135016	3823	Cx. tarsalis	Woodland	32	CO2	8/19/2022	WNV
Yolo	SAYO 145005	3922	Cx. tarsalis	Davis	50	CO2	8/23/2022	WNV
Yolo	SAYO 146006	3933	Cx. tarsalis	Davis	50	CO2	8/23/2022	WNV
Yuba	SUYA 10	411	Cx. tarsalis	Olivehurst	50	CO2	8/23/2022	WNV
Yuba	SUYA 37	399	Cx. tarsalis	Marysville	35	CO2	8/23/2022	WNV

Sentinel Chickens

County	Site Code	Nearest City	Date Bled	Virus	Band 01	Band 02	Band 03	Band 04
Colusa	CLSA 000000	Colusa	8/16/2022	WNV	1049			
Los Angeles	LACW 001010	Los Angeles	8/16/2022	WNV	1716	1718	1719	
Sacramento	SAYO 261013	Isleton	8/17/2022	WNV	1254			
Tulare	TLRE 000008	Tulare	8/12/2022	WNV	1501	1503	1506	1510
Yolo	SAYO 116006	Knights Landing	8/15/2022	WNV	1270	1272	1273	

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TEST PROTOCOLS

Humans:

Specimens are tested by local laboratories with an IgM or IgG immunofluorescent assay (IFA) and/or an IgM enzyme immunoassay (EIA). Specimens with inconclusive results are forwarded to the California Department of Public Health Viral and Rickettsial Disease Laboratory (VRDL) for further testing with a plaque reduction neutralization test (PRNT).

Dead Birds

Oral swab samples collected from bird carcasses are tested at the UC Davis Arbovirus Research and Training laboratory (DART) or at a local agency for West Nile virus by RT-qPCR.

Sentinel Chickens:

Dried blood spot samples from sentinel chickens are tested at the California Department of Public Health Vector-Borne Disease Laboratory for IgG antibodies to West Nile, St. Louis encephalitis, and western equine encephalomyelitis viruses by an EIA. Positive samples are confirmed by IFA, western-blot, or PRNT.

Mosquito Pools:

Mosquito pools are tested at DART or at a local agency for West Nile, western equine encephalomyelitis, and St. Louis encephalitis viral RNA using a multiplex RT-qPCR. Invasive *Aedes* mosquitoes (*Ae. aegypti* and *Ae. albopictus*) are also tested at DART for chikungunya, dengue, and Zika viral RNA by a separate RT-qPCR.

Website Information: For updated information on WNV in California, please visit the California WNV website, <https://westnile.ca.gov>, or the California Vector-Borne Disease Surveillance System website, <https://maps.vectorsurv.org>.

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